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DRAFT Remedial Investigation Work Plan

Hamilton Hill Revitalization - Anchor Site
750 State Street
City of Schenectady
Schenectady County, New York
NYSDEC Site #C447055

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"I, Aimee Smith, certify that I am currently a Qualified Environmental Professional as defined in 6 NYCRR Part 375 and that this work plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with DER Technical Guidance for Site Investigation and Remediation (DER-10)."

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DRAFT REMEDIAL INVESTIGATION WORK PLAN
HAMILTON HILL REVITALIZATION - ANCHOR SITE
750 STATE STREET
CITY OF SCHENECTADY, SCHENECTADY COUNTY

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1.0 INTRODUCTION

1.1 Introduction

This document constitutes the Remedial Investigation Work Plan (RIWP) for the Hamilton Hill Revitalization - Anchor Site (the "Site") located at 750 State Street in the City of Schenectady, Schenectady County, New York. The Site is approximately 2.464 acres and is identified with tax map number section 49.25, block 1, lot 21.11 on the City of Schenectady tax maps. A Site Location Map is included as Figure 1. A Survey Map showing the Site boundaries is included as Figure 2.

The Site is noted to have been recently merged into a single tax map parcel from four (4) individual tax map numbers which included the addresses 742, 754 & 758 State Street and 749 Albany Street.

A Brownfield Cleanup Agreement (BCA) between New York State Department of Environmental Conservation (NYSDEC) and the Albany State Street Limited Partnership was executed on February 24, 2026.

This RIWP was developed in accordance with NYSDEC DER-10 Technical Guidance for Site Investigation and Remediation (May 2010) (DER-10) and 6 NYCRR Part 375 Environmental Remediation Programs (December 31, 2025).

Work performed under this RIWP will be done in accordance with applicable Federal, State, and local applicable statutes, regulations, and guidance documents.

1.2 Purpose and Scope

The purpose of this RIWP is to determine the nature and extent of contamination present at the Site and to provide data to support decisions regarding the need for further investigation or remedial action. Based on existing site conditions, an Interim Remedial Measure Work Plan is being prepared for separate submittal to address select site conditions (see Section 3.1 of the RIWP).

The following scope of work is proposed to develop an environmental baseline and conceptual model for the Site.

- Conduct a Records Search and submit a Records Search Report to NYSDEC in accordance with Appendix 3A of DER-10. Several Site-specific records have already been reviewed and are summarized in Section 1.3 of the RIWP. The reviewed records provide sufficient information for the development of a Remedial Investigation (RI) field investigation. Based on the results of the RI investigation, additional records may be reviewed, as necessary, to enhance the conceptual model for the Site.
- Conduct a RI field investigation to further characterize previous site assessment results for Site contaminants of concern (COCs). The RI investigation will include:
  - The collection of surface soil samples for subjective field evidence of contamination (FEC) (field screening for organic vapors with a photoionization detector [PID], visual staining, & petrochemical odors) and for laboratory analysis.
  - The advancement of soil borings to assess subsurface conditions and for the collection of subsurface soil samples for subjective FEC and laboratory analyses.
  - The installation of monitoring wells to assess groundwater conditions and for the collection of groundwater samples for subjective FEC and laboratory analyses.

    Surface soil, subsurface soil and groundwater will be submitted for the Target Compound List (TCL) of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), 1,4-dioxane, pesticides, polychlorinated biphenyls (PCBs), the Target Analyte List (TAL) metals, cyanide, pH, and total organic carbon (TOC). Select surface soil samples, select subsurface samples and select groundwater samples will be submitted for laboratory analysis for per- and polyfluoroalkyl substances (PFAS). Laboratory analysis will include percent moisture for the surface and subsurface soil samples.
  - The collection of soil gas samples for laboratory analyses from soil gas points.

    Soil gas and outdoor air will be submitted for laboratory analysis of the Toxic Organics – 15 (TO-15) list of VOCs.
- Generate a Remedial Investigation Report (RIR) in general accordance with Section 3.13: Remedial Investigation Report of DER-10. The components of the RIR will generally include the findings of any additional records searched; the physical

setting of the Site & surrounding areas; a technical presentation and discussion of data collected during the RI; the findings and recommendations; and updating the conceptual model for the Site. The RI Report will also discuss green and sustainable techniques utilized during the RI, and any modifications to the approved RIWP that occurred during the RI.

1.3 Summary of Records Reviewed

Site-specific records that have been reviewed for the Site include Phase I Environmental Site Assessment (ESA) Reports, two (2) Phase II ESA Reports, one (1) Supplemental Phase II Report, one (1) Subsurface Investigation Report, one (1) Remedial Investigation & Tank Closure Program Report, and the NYSDEC spill record for an active spill listed for the Site. The following lists and summarizes each of these referenced records. The following summaries are provided here as the required Records Search Report. With the exception of the Phase I ESA reports, the reports are included as exhibits to this RIWP.

Phase I Environmental Site Assessment, Mohawk Honda Site, prepared by Northeastern Environmental Technologies Corporation (NETC), dated October 1, 2002 (2002 Phase I ESA).

This Phase I ESA was conducted on a portion of the Site (excluding the parcels formerly known as 749 Albany Street and 758 State Street) and included properties at 728 -740 State Street which are not a portion of the BCP defined Site. The report identified suspect and known underground storage tanks (USTs) on the Site and past historical use for auto repair as recognized environmental conditions (RECs).

Subsurface Investigation of the Mohawk Honda Site at 728-756 State Street, prepared by NETC, dated March 18, 2003 (2003 Subsurface Investigation Report). Presented as Exhibit 1 of the RIWP.

This report encompassed the same boundaries as the 2002 Phase I ESA. The following summary pertains to the Site only. Eight (8) soil borings were advanced utilizing direct-push drilling techniques; one (1) of which was converted into a monitoring well. Elevated concentrations of VOCs above Standards, Criteria, and Guidance (SCGs) were identified in both soil and groundwater within the Site.

Remedial Investigation & Tank Closure Program for the Mohawk Honda Site at 728-756 State Street, prepared by NETC, dated September 22, 2003 (2003 Remedial Investigation & Tank Closure Report). Presented as Exhibit 2 of the RIWP.

The activities completed for this report encompassed the same boundaries as the 2002 Phase I ESA and 2003 Subsurface Investigation. The following summary pertains to the Site only. Three (3) USTs were removed and soil was removed from three (3) areas (Area 1, Area 4 and Area 5). Soil Removal Area 1 included two (2) USTs; Soil Removal Area 4 included one (1) UST; and Soil Removal Area 5 did not include USTs. The Soil Removal Areas are depicted on Figure 3 (Historic Sampling Locations Plan). End point soil samples collected from Soil Removal Area 1 reportedly did not contain concentrations of VOCs above regulatory values (Technical and Administrative Guidance Memorandum [TAGM] 4046 – the applicable SCGs in 2003). An end point soil sample collected from Soil Removal Area 4 contained concentrations of VOCs above regulatory values. A post excavation soil sample from Soil Removal Area 5 contained SVOCs above 2003 regulatory values.

Phase I ESA for the Mohawk Chevrolet Co Inc, Haraden Motorcar Corp and Two Guys Realty LLC Property at 742, 754, 756 and 758 State Street, prepared by LaBella, dated January 31, 2023 (2023 LaBella Phase I ESA).

The 2023 LaBella Phase I ESA did not include the parcel formerly known as 749 Albany Street. The ESA report identified an REC based on the use of the Site for automotive-related activities and petroleum storage since the 1930s with known impacts to the Site soils and groundwater above SCGs. The report also identified significant data gaps related to the lack of information regarding heating systems for prior structures and the building located on the former 754 State Street parcel which was present at the time of the assessment; and the lack of information regarding the condition of the subsurface in relation to known fill material.

Phase II ESA for the Mohawk Chevrolet Co Inc, Haraden Motorcar Corp and Two Guys Realty LLC Property at 742, 754, 756 and 758 State Street, prepared by LaBella, dated June 1, 2023 (2023 LaBella Phase II ESA Report). Presented as Exhibit 3 of the RIWP.

This report encompassed the same boundaries as the 2023 LaBella Phase I ESA. The Phase II ESA activities included the completion of a ground penetrating radar (GPR) survey, and a subsurface investigation which included the advancement of five (5) soil borings utilizing direct-push drilling techniques; the collection of soil samples for field vapor screening and laboratory analysis; and the collection of groundwater samples for laboratory analysis. Three (3) suspect USTs were identified during the course of the GPR survey. Analytical results for a groundwater sample adjacent to the known UST on the former 754 State Street parcel identified VOCs exceeding groundwater standards.

Elevated concentrations of SVOCs were identified in one (1) soil sample and elevated concentrations of metals were identified in two (2) soil samples above Unrestricted Use and Restricted Residential Use Soil Cleanup Objectives (SCOs). Results of this assessment prompted the reporting of a spill which was assigned Spill No. 2300878.

Phase I ESA for the Vacant Lot at 749 Albany Street, prepared by C.T. Male, dated December 20, 2023 (2023 C.T. Male Phase I ESA).

The 2023 C.T. Male Phase I ESA did not include the State Street parcels of the BCP defined Site. One REC was identified relative to Spill No. 2300878 listed for the adjoining former 754 State Street parcel (eastern portion of the Site). This spill is discussed below. A second REC was associated with the past historic use of the parcel for various commercial purposes including an awning manufacturing facility.

Phase II Environmental Site Assessment for the Schenectady 40 Anchor Site, 742, 754 & 758 State Street and 749 Albany Street, prepared by C.T. Male Associates, dated January 5, 2024 (2024 C.T. Male Phase II ESA Report). Presented as Exhibit 4 of the RIWP.

The Phase II ESA included the completion of a GPR survey, and a subsurface investigation which included the advancement of six (6) soil borings utilizing direct-push drilling techniques, of which four (4) were converted to monitoring wells; the collection of soil samples for field vapor screening and laboratory analysis; and the collection of groundwater samples for laboratory analysis. The sampling locations plan from this assessment followed by Table 1 (analytical results of detected compounds from soil samples) and Table 2 (analytical results of detected compounds from groundwater samples collected during this assessment) are included in Appendix A of the RIWP.

Two (2) anomalies consistent with USTs were identified during the GPR survey. A third anomaly, identified as a suspect UST in the LaBella Phase II ESA, was reported to resemble a UST grave.

Impacts to soils were identified which appeared to be related to a petroleum release at the suspect UST to the north of the southwestern portion of the former 754 State Street building as documented by VOCs above Unrestricted Use/Commissioner's Policy 51 (CP-51) SCOs, and by the presence of fill materials on scattered portions of the subject property as documented by SVOCs and metals above Unrestricted Use SCOs. Select SVOCs and one (1) metal were noted to exceed Industrial Use SCOs.

Petroleum related compounds were identified in groundwater proximate to the suspect

UST to the north of the southwestern portion of the former 754 State Street building. Metals and SVOCs were detected above groundwater standards/guidance values on various portions of the Site.

Phase I Environmental Site Assessment for the Former Mohawk Honda Site, 742, 754 & 758 State Street and 749 Albany Street, prepared by C.T. Male Associates, dated August 2, 2024 updated February 28, 2025 (2024 and 2025 C.T. Male Phase I ESAs).

The Phase I ESA identified RECs associated with the Site including past use of the Site for automotive sales & service and auto body repair since at least 1930 coupled with the identification USTs; the identification of impacts to the quality of groundwater and soil at the subject property documented in investigations performed between 2003 & 2024 and associated active Spill No. 2300878. The report notes VOCs, SVOCs and metals were identified in the soil/urban fill and groundwater at the subject property above SCGs.

A controlled recognized environmental condition (CREC) was identified related to Spill No. 0301751 related to contamination identified in soils as a result of three (3) unregistered USTs, from Areas 1 and 4, and impacted soils from Areas 1, 4 and 5 which were removed from the subject property in 2003.

Supplemental Subsurface Assessment for the Schenectady 40 Anchor Site, 742, 754 & 758 State Street and 749 Albany Street, prepared by C.T. Male Associates, dated October 2, 2024 (2024 Supplemental Subsurface Assessment Report), Presented as Exhibit 5 of the RIWP.

The Supplemental Subsurface Assessment included the advancement of ten (10) soil borings utilizing direct-push drilling techniques, the excavation of three (3) test pits and the collection of soil samples for field vapor screening and laboratory analysis. The results of the assessment were similar to the previous assessments identifying elevated concentrations of SVOCs and metals in soil samples above Unrestricted Use, Restricted Residential Use, and Commercial Use SCOs. The sampling locations plan from this assessment followed by Table 3 (SVOC and metal analytical results of detected compounds from soil samples collected from soil borings) and Table 4 (VOC analytical results of detected compounds from soil samples collected from test pits during this assessment) are included in Appendix A of the RIWP.

NYSDEC Spill Record Sheet for Spill No. 2300878. Presented as Exhibit 6 of the RIWP.

NYSDEC Spill No. 2300878 was assigned to the Site on May 2, 2023 pursuant to the identification of petroleum impacts to soil and groundwater on the central and northern

portions of the Site during the field activities for the 2023 LaBella Phase II ESA. The spill remains open.

Phase I Environmental Site Assessment for the Hamilton Hill Revitalization – Anchor Site, 750 State Street, prepared by C.T. Male Associates, dated March 13, 2026. (2026 C.T. Male Phase I ESA).

The Phase I ESA identified RECs associated with the Site including past use of the Site for automotive sales and service and auto body repair since at least 1930 coupled with the identification of the previously discussed suspect USTs; the identification of impacts to the quality of groundwater and soil at the Site documented in investigations performed between 2003 and 2024 and associated active Spill No. 2300878. The report notes VOCs, SVOCs and metals were identified in the soil/urban fill and groundwater at the Site above SCGs.

1.4 Additional Records to be Reviewed

If results of the RI indicate that Site COCs originate from off-site, pertinent records will be reviewed to assess current and historic land usage from off-site areas where the COCs may have originated.

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2.0 SITE DESCRIPTION & HISTORY

2.1 Site Description

The Site is located at 750 State Street in the City of Schenectady, Schenectady County, New York. The Site is 2.464 acres and is identified with tax map number section 49.25, block 1, lot 21.11 on the City of Schenectady tax maps. A Site location map is included in Figure 1.

Prior Site addresses are noted to have included 729 through 765 Albany Street and 742 through 758 ½ State Street. Most recently the Site was comprised of four (4) individual tax lots known as 742 State Street, 754 State Street, 758 State Street and 749 Albany Street. These four (4) lots were merged into a single lot known as 750 State Street in 2025. A survey map labeled "Lot Consolidation Site Plan" showing the Site boundaries relative to the former four (4) tax lots is included as Figure 2.

2.2 Adjacent Land Use

The Site is located in an urban area populated with residential and commercial buildings. The adjoining land uses, as identified during the site reconnaissance, are described as follows:

DIRECTION	ADDRESS	NAME (AND USE)
Northeast (opposite State Street)	751 State Street	Grasso Rodriguez & Grasso (insurance attorney)
	759 State Street	Executive Inn (motel)
	State Street	Driveway
	763 State Street	Apartment building
	769 State Street	Jamrock Caribbean Bar & Grill (restaurant)
Southeast	771 Albany Street	Chas. G. Burch Supply Co. (plumbing and heating supplier)
Southwest (opposite Albany Street)	746 - 754 Albany Street	Vacant urban land
	307 Paige Street	Parking Lot
	736 Albany Street	Hillside Crossing Apartment Complex
Northwest	738 State Street	Capital District Psychiatric Center (medical office)

2.3 Site History

Historically, the Site appears to have been developed dating to at least the late 1880s. The Site was formerly improved with numerous buildings along State Street and Albany Street which were primarily used as dwellings, retail stores and for commercial purposes.

Historical use for each of the former Site parcels is summarized below.

- The 742 State Street parcel historically comprised the addresses 729 to 743 Albany Street and 742 to 752 State Street. These addresses were historically occupied by various buildings including stores, dwellings and commercial automotive related business including an auto repair facility with lacquer spraying at 748 State Street and a lacquer spraying building at the rear of 752 State Street.
- The 754 State Street parcel historically also included the address 756 State Street and 745 & 747 Albany Street. A former building that was razed in 2024 dated to at least 1930 and was historically used as an auto sales and service facility. The 745 and 747 Albany Street addresses were historically occupied by dwellings and were later used for auto sales.
- The 758 State Street parcel also historically included the address 758 ½ State Street and was previously occupied by buildings consisting of an automobile storage garage, a dwelling and an apartment building. The former buildings on the parcel were demolished by 2011.
- The 749 Albany Street parcel included addresses from 749 to 765 Albany Street. Historical commercial occupants reportedly included an awning manufacturing facility, a plumbing and heating facility, a coal company, a paint store, an automotive repair shop which included vehicle sales and services, and a heating service facility. This parcel appears to have been largely unoccupied other than residential tenants by the 1980s although a garage building was located at the rear of the parcel for which the specific purpose is not known.

2.4 Site Utilities

As the Site is currently vacant, utilities are not currently used on the Site. Previously electricity and natural gas were supplied by National Grid. Municipal water and sewer service were provided by the City of Schenectady. An overhead power line traverses the central portion of the Site in a south-southwest to north-northeast orientation.

2.5 Stormwater Drainage Features

Stormwater surface drainage from the impervious asphalt parking areas enter three (3) catch basins located within the paved area on the northern portion of the Site (see Figure 2 of the RIWP). The discharge point of the catch basins is reported to be to the municipal storm sewer, and this will be confirmed as part of the RI through mapping/document search with County/City of Schenectady.

2.6 Topographic Description and Nearby Surface Water Bodies

According to the United States Geological Survey (USGS) Topographic Map of Schenectady, New York (2019), the Site lies between approximately 310 and 320 feet above Mean Sea Level. Generally, the Site slopes gently to moderately from southeast to northwest.

2.7 Site Geology

2.7.1 Surficial Geology

The Surficial Geologic Map of New York, Hudson-Mohawk Sheet, prepared by the New York State Geologic Survey identifies surficial geology as lacustrine silt and clay (lsc). This material is reported to be composed of laminated layers of silt and clay typically deposited beneath proglacial lakes.

Based on the results of previous subsurface explorations performed at the Site, the soil profile was found to consist of urban fill overlying laminated layers of silt and sand, which transition to laminated layers of silt and clay.

Upon penetrating the asphalt pavement and the underlying subbase course, test borings encountered fill material which extended to depths ranging from approximately 3 feet to 23.5 feet. The fill material was found to consist of fine to coarse sand with lesser amounts of silt and varying amounts of debris composed of fragments of brick, glass, coal, ash and wood.

2.7.2 Bedrock Geology

The bedrock underlying the Site and surrounding area is classified as the Schenectady Formation with graywacke, sandstone, siltstone and shale (Fisher et al., 1970). Although

bedrock was not encountered in the soil borings completed during previous Site investigations, other references demonstrate that the depth to bedrock is likely greater than 55 feet bgs based on subsurface boring logs at nearby (and topographically uphill) BCP Site (Hamilton Hill II – Target Area 1 – Site No. C447052) where bedrock was not encountered down to 58 feet bgs.

2.7.3 Groundwater

The Site is located within an unconfined unconsolidated aquifer composed of sand and gravel with a saturated zone generally greater than 10 feet thick and potential yields between five (5) to 20 gallons per minute (gpm) (Brown et al., 1981).

According to water levels obtained from on-site monitoring wells installed during the 2024 Phase II ESA, the depth to site groundwater was measured at 9.3 feet bgs to 13.2 feet bgs. The base of this unconsolidated aquifer is expected to be the top of glaciolacustrine silt and clay unit or top of shale bedrock and is likely to be encountered at approximately 55 feet bgs or greater.

The inferred groundwater flow direction in the vicinity of the Site is to the north and/or northwest towards the Mohawk River, located approximately one (1) mile to the north-northwest of the Site.

2.8 Preliminary Conceptual Site Model

This Preliminary Conceptual Site Model (CSM) has been developed for the purpose of developing this RIWP. The scope of work presented herein is based on records that have been reviewed to date (see Section 1.3 of the RIWP), which include the 2003 Subsurface Investigation Report, the 2003 Remedial Investigation & Tank Closure Report, the 2023 LaBella Phase II ESA Report, the 2024 C.T. Male Phase II ESA Report, the 2024 Supplemental Subsurface Assessment Report, the active NYSDEC spill record (Spill No. 2300878), data from the nearby NYSDEC BCP site (Site No. 447052), and the Site's physical setting. The Preliminary CSM is a working document that will be modified and updated at project milestones to support decision making and data needs throughout the RI.

An IRM will be implemented to address previously identified site-specific environmental conditions identified at the Site prior to completion of the RI and selection of the final

remedy. The scope and implementation of the IRM are presented in an IRM Work Plan, which is being submitted under separate cover in conjunction with this RIWP. The Preliminary CSM will evolve as the investigation progresses and will ultimately inform the selection of a comprehensive remedial action to address Site COCs in Site media having the potential to affect public health and the environment.

The BCP defined Site consists of a single merged parcel encompassing the former addresses 742 through 758 ½ State Street and 729 through 765 Albany Street and is currently comprised of vacant urban land. Development of the Site dates to at least the late 1880s and historically included a dense mix of residential, retail and commercial uses along State Street and Albany Street. Beginning in the early 20th century the Site became increasingly dominated by automotive-related activities, including auto sales, service, repair, vehicle storage and associated parking. The Site was most recently occupied by Mohawk Auto Center until 2022; the primary auto sales and service building (dating to at least 1930) was demolished in 2024. Additional historical commercial and light industrial uses across the Site included lacquer spraying operations, awning manufacturing, plumbing and heating services, a coal distribution company, paint retail and heating service facilities, with most buildings demolished by 2011. Based on historical data, the past commercial and light industrial uses of the Site may have contributed to contaminants of concern at the Site including select VOCs, SVOCs, and metals in Site's media although this has not been confirmed.

Although not currently used at the Site, public water and sewer are available in the site area. The Site's topography slopes gently from east to west. The Mohawk River is located approximately one (1) mile to the northwest of the Site. Based on topographic relief surrounding the Site, the inferred regional groundwater flow direction is to the north and/or northwest towards the Mohawk River.

The Site soils are as follows based on initial Site data and review of available references:

- Reworked Recent Fluvial Deposits – Very loose to medium dense, sand and gravel overlying urban fill. Surface to 10 feet bgs (as per Site data)

- Urban Fill – Loose to dense, heterogeneous materials primarily consisting of sands and gravels with varying amounts of debris and construction related materials. Surface to 12 feet bgs (as per Site data).

- Reworked Recent Fluvial Deposits and Urban Fill – Loose to medium dense, consisting predominantly of sand and gravel with varying amounts of debris and construction related materials. Surface to 16.5 feet bgs (as per Site data).

- Recent Fluvial Deposits – These loose to medium-dense, sands and gravels, typically stratified, extend to approximately 20 feet bgs (as per Site data).

- Glaciolacustrine Delta – Medium dense to dense silty sand to gravel with sand to approximately 36 to 56 feet bgs (as per Site data to 27 feet bgs and literature references from 27 feet bgs onward).

- Glaciolacustrine Silt and Clay – Soft to stiff fine-grained sediments composed predominantly of silt and clay with minor fine sand; thickness variable typically 10 to 60 feet (per literature references).

- Glacial Till – Very dense diamict of poorly sorted clayey silts and sand with subrounded to subangular gravel; thickness of this lowly permeable unit ranges from five (5) to 20 feet (as per literature references).

- Shale – Dark gray to black of the Middle-Upper Ordovician age Schenectady Formation, which is a very fine-grained, frequently fractured shale with occasional thin, discontinuous beds of siltstone and mudstone; the top of bedrock is likely greater than 55 feet bgs (as per literature references).

The Site's water table was measured at 9.3 to 13.2 feet bgs in 2023 during a groundwater sampling event. The unconsolidated aquifer consists of saturated alluvial and glaciolacustrine delta; the base of this hydrogeologic unit is likely to be encountered at depths exceeding 55 feet bgs. At this time, the previous site assessment results for Site COCs within the Site are related to VOCs, SVOCs & metals in fill material mantling the Site; and VOCs, SVOCs & metals in groundwater. The VOCs, SVOCs and metals in fill material have been detected at concentrations exceeding SCOs for Unrestricted and Restricted Residential Use SCOs, with select SVOCs and metals detected at concentrations exceeding Commercial and Industrial Use SCOs. Several samples exhibiting these SCO exceedances were collected at sampling locations representative of urban fill material at depths that ranged from one (1) to 16 feet bgs. Groundwater samples, collected from the water table at four (4) shallow on-Site monitoring wells

identified VOCs, SVOCs and metals at concentrations exceeding their respective ambient water quality (AWQ) standards or guidance values (GVs).

Based on the analytical data collected to date, preliminary potential pathways to previous site assessment results for Site COCs in Site media include:

- Inhalation, dermal contact and/or ingestion of COCs in on-Site fill material that is near the ground surface as well as potentially impacted soils in the vicinity of the known and suspect USTs.
- Inhalation of VOCs from potentially impacted soil and/or groundwater in the vicinity of the USTs.
- Inhalation, dermal contact and/or ingestion of COCs via direct contact with product/residue within the storage tanks (underground and above ground) and a bin containing used oil filters at the Site.

Dermal/ingestion exposure is not viewed as a potential pathway since depth to groundwater is estimated to be 15 feet bgs, and the Site is provided with public water, unless select ground-intrusive techniques are being employed on-site (i.e. excavations) which have the capability of exposing groundwater. If such ground-intrusive techniques are being employed on-site, groundwater will be viewed as a possible pathway for dermal/ingestion exposure.

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3.0 OBJECTIVES, SCOPE & RATIONALE

3.1 Objectives

The objective of this RIWP is to complete an investigation to support the preparation of an RIR that presents the nature and extent of contamination at the Site. The intent is to obtain sufficient information to develop a suitable remedy to foster redevelopment of the Site.

The proposed remedial action for the Site will be the remediation of impacted fill/soil to Track 1 (unrestricted use) cleanup levels. An Alternatives Analysis Report (AAR) will be prepared to present costs and remedial approaches that would be protective of public health and the environment commensurate with the Site's future use. It is noted that other remedial objectives are being addressed under an IRM for which a separate work plan has been prepared.

The IRM will include:

- Closure by removal of a partially uncovered UST, with excavation and off-site disposal of petroleum-impacted soils encountered during tank removal activities. Confirmation closure sampling will be completed.
- Removal of a concrete aboveground storage tank (AST) currently located on-site that contains residual product.
- Removal of a storage bin partially filled with used oil filters.
- Targeted investigations to address remaining site infrastructure uncertainties including stormwater-related migration pathways and two (2) suspect USTs.

The approximate locations of the IRM areas are depicted on Figures 4 through 6.

Information and data generated during implementation of the IRM including field observations, excavation logs, waste characterization information, and analytical results will be provided in an IRM Construction Completion Report (CCR), and will be evaluated alongside RI results. The IRM-derived data will be used to refine the Conceptual Site Model and will be summarized and interpreted in the RIR to support the

assessment of the nature and extent of impacts and inform subsequent remedial decision-making.

3.2 Scope and Rationale

The scope of work for the RI was developed based on Site conditions, and was guided by data collected from previous investigations performed within the Site.

Ground-intrusive sampling will be performed with Community Air Monitoring Program (CAMP) monitoring, and as applicable including the sensitive monitoring provisions.

The following sections provide the scope of work anticipated to be performed.

3.2.1 Advancement of Soil Borings and Subsurface Soil Sampling

Twenty (20) soil borings will be completed across the Site to characterize subsurface conditions across the Site as depicted on Figure 4. The soil borings will be completed employing hollow-stem auger (HSA) drilling and split-spoon methods to assess the environmental quality of subsurface soils, for installation of overburden monitoring wells, and to characterize the Site's subsurface geology and hydrogeology. The actual soil boring locations may be modified at the time of drilling based on buried utility mark outs by the utility locator (UDig NY) and in consultation with the NYSDEC Project Manager.

The soil borings are anticipated to be advanced to the top of the water table and continued approximately five (5) feet into the unconfined aquifer, approximately 20 to 25 feet bgs, to support installation of monitoring wells as described in Section 3.2.3 of the RIWP.

Sampling locations RI-SB-01 to -12 and RI-SB-19 and -20 are positioned along the perimeter of the Site to evaluate boundary conditions and potential off-Site influences and RI-SB-13 to -18 are located in central portions of the Site. The soil boring locations and rationale are described more specifically in the following paragraphs.

Soil boring RI-SB-01 is situated on the northernmost corner of the Site and RI-SB-02 and RI-SB-03 are centrally located along the northern boundary. These locations will serve as downgradient positions on the Site based on inferred groundwater flow direction and reported groundwater flow direction for the northern portion of the subject property and adjoining property to the north. Additionally, RI-SB-03 is situated in the vicinity of an area that was reportedly treated with Oxygen Release Compound (ORC) in 2003. RI-SB-04 is located on the northwestern corner of the Site. Soil boring RI-SB-05 is positioned

centrally along the southwestern Site boundary adjacent to Albany Street. Borings RI-SB-06 and RI-SB-07 are located on the southwestern corner of the Site and will be used to assess the potential for off-site sources (specifically the existing plumbing and heating supplier at 771 Albany Street) contributing to Site COCs. RI-SB-08 and -09 are situated along the Site's southeastern boundary and RI-SB-10 is located in the southeastern portion of the Site adjacent to State Street. RI-SB-11 and RI-SB-12 are located centrally along the northeastern Site boundary adjacent to State Street to evaluate boundary conditions.

Sampling locations RI-SB-13 to -18 are located in central portions of the Site to provide interior coverage. RI-SB-13 is positioned in the vicinity of a former auto body repair and lacquer spraying area and RI-SB-14 is located in an area with historically limited data. RI-SB-15 is positioned in the inferred downgradient location to the northwest of a known UST where there is a documented petroleum release. RI-SB-16 is located downgradient of the nearby plumbing and heating supplier. RI-SB-17 is positioned downgradient of the former automotive service building that was removed in 2024 where suspect UST piping was previously identified. RI-SB-18 is positioned downgradient of a known UST and in the vicinity of the former auto body repair and lacquer spraying building. Sampling locations RI-SB-19 to -20 are located along the southwestern and southern perimeter of the Site to provide additional coverage in these areas.

The rationale for completion and conversion of the soil borings into groundwater monitoring wells is to allow the collection of media samples to assess COCs in subsurface soil and groundwater. Soil borings RI-SB-01 through RI-SB-16 will be installed as a flush-mounted monitoring wells RI-MW-01 to RI-MW-16, screening across the top of the water table to define groundwater flow patterns and to define the nature and extent of contamination in groundwater, and to assess if these COCs originate on-Site or if these COCs are migrating onto the Site from off-site sources.

At each proposed boring, continuous soil sampling will be performed at two (2) feet intervals for purposes of screening and classifying soil. Two (2) subsurface soil samples are proposed to be collected at each soil boring for laboratory analysis including one (1) representative soil sample of urban fill and one (1) soil sample just above the groundwater table interface for each boring location. In addition, a discrete sample will be collected for laboratory analyses of soil or fill exhibiting subjective FEC, if encountered. The subsurface soil samples will be submitted for laboratory analyses for TCL VOCs,

SVOCs, 1,4-dioxane, pesticides, PCBs, TAL metals and cyanide. Additionally, soil samples collected from just above the groundwater table interface at RI-SB-01, -03, -05, -06, -07, -09, -11, -13 and -15 will be submitted for laboratory analysis for PFAS, pH, TOC and percent moisture. The laboratory to be used for sample analysis is a NYSDOH Environmental Laboratory Approval Program (ELAP) Certified Laboratory.

The subsurface soil samples will be collected using a split-spoon sampler. The soils will be logged in accordance with ASTM D2488 (visual-manual method) and screened in the field for subjective FEC. The samples will be placed in laboratory provided sampling containers and the containers will be placed in a laboratory provided cooler containing wet ice. A chain of custody form will be completed and the chain of custody form will accompany the samples to the laboratory. The following C.T. Male Project Specific Operating Procedures (PSOPs) will be followed by C.T. Male field personnel during drilling and collection of subsurface soil samples.

- PSOP #2: Domestic Transport of Samples to Laboratories in the USA.
- PSOP #3: Chain of Custody Procedures.
- PSOP #9: Note Taking and Field Logs.
- PSOP #11: Collection of Quality Control Samples.
- PSOP #14: Organic Vapor Monitoring and Air Monitoring.
- PSOP #15: Equipment Decontamination Procedures.
- PSOP #18: Surface and Subsurface Soil Sampling.
- PSOP #20: Drilling and Associated Sampling Methods.
- SOP: Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, April 2023.

The referenced PSOPs are included in Appendix B of the RIWP.

3.2.2 Surface Soil Sampling

Twenty (20) surface soil samples are proposed to be collected from 20 sampling locations depicted as RI-SB-01 to RI-SB-20 on Figure 4 of the RIWP.

Surface soil samples will be collected immediately beneath the vegetative turf in vegetated areas of the Site, beneath the pavement/subbase in paved areas of the Site, and beneath the concrete in areas where concrete may exist at the surface or beneath the pavement. The spatial distribution of the sampling locations and the analytical suite

proposed for the samples suffice to provide an overall assessment of the environmental quality of surface soil for RI purposes.

The surface soil samples will be submitted for laboratory analyses for TCL VOCs, SVOCs, 1,4-dioxane, PCBs, pesticides, TAL metals and cyanide. Surface soil samples RI-SB-01, -03, -05, -06, -07, -09, -11, -13 and -15 will also be analyzed for PFAS, pH, TOC and percent moisture to assess the presence of PFAS, in surface soil at sampling locations distributed across the Site. The samples will be initially analyzed for this analytical suite to provide an analytical baseline for the RI.

The surface soil samples for laboratory analyses will be collected from 0 to 2-inches (below the aforementioned cover material) except for TCL VOCs samples, which will be collected from 2 to 6-inches, per DER-10, Section 3.5.1(b).

The surface soil samples will be collected from soil borings using split-spoon samplers in paved areas. In non-paved areas, samples will be collected using a field decontaminated hand auger, shovel, trowel, or other equal method. Decontamination of sampling equipment will include Alconox and PFAS-free water wash followed by a PFAS-free water rinse. The soil samples will be assessed in the field for subjective FEC. The soil samples will be placed in laboratory provided sampling containers and the containers will be placed in a laboratory provided cooler containing wet ice. A chain of custody form will be completed and the chain of custody form will accompany the samples to the laboratory. The laboratory to be used for sample analysis is a NYSDOH ELAP Certified Laboratory. The following C.T. Male PSOPs will be followed by C.T. Male field personnel during collection of surface soil samples.

- PSOP #2: Domestic Transport of Samples to Laboratories in the USA.
- PSOP #3: Chain of Custody Procedures.
- PSOP #9: Note Taking and Field Logs.
- PSOP #11: Collection of Quality Control Samples.
- PSOP #14: Organic Vapor Monitoring and Air Monitoring.
- PSOP #15: Equipment Decontamination Procedures.
- PSOP #18: Surface and Subsurface Soil Sampling.
- SOP: Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, April 2023.

The referenced PSOPs are included in Appendix B of the RIWP.

3.2.3 Installation of Overburden Monitoring Wells

Sixteen (16) soil borings (RI-SB-01 to -16) will be converted into overburden monitoring wells depicted as monitoring wells RI-MW-01 to -16 on Figure 5 of the RIWP to characterize the Site's groundwater characteristics, including flow patterns, gradients, and quality.

Two (2)-inch diameter, schedule 40 PVC monitoring wells with 0.010-inch slotted screens, an approximate 1-~~inch~~ foot sump, and solid risers will be installed within the boreholes in accordance with standard practices. A size #0 sand pack will be utilized around the well screen to stabilize the PVC and prevent fine sediment from clogging the screen. A clay bentonite seal installed to reduce the potential for surface water infiltration through the borehole. The wells will be constructed so that the well screen (estimated at 10 feet in length) straddles the top of the water table. Monitoring well depths, and screen lengths & depths, will be calculated by C.T. Male's field environmental scientist/geologist by maintaining accurate measurements of sampling depth and screen and riser placed in the borehole, with at least two (2) feet and a maximum of five (5) feet of screen above the apparent water table at each boring/well location. The monitoring wells will be protected via the installation of flush mounted, bolted down cover road boxes set in concrete aprons. The following C.T. Male PSOPs will be followed by C.T. Male field personnel during monitoring well installation.

- PSOP #9: Note Taking and Field Logs.
- PSOP #16: Monitoring Well Installation.

The referenced PSOPs are included in Appendix B of the RIWP.

3.2.4 Monitoring Well Development

Once installed, each newly installed monitoring well will be developed by using a surge block or similar equipment to induce agitation within the water column followed by hand bailing or pumping and surging with a pump capable of removing accumulated fine sediment within the wells to establish a hydraulic connection with the surrounding aquifer. The newly installed wells will be developed at an appropriate time interval (at least 48 hours) post-installation using pumping techniques. Monitoring of temperature, specific conductivity, pH, and turbidity for defining stabilization will be completed.

The following C.T. Male PSOPs will be implemented by C.T. Male field personnel during monitoring well development.

- PSOP #1: Measuring Static Water Level, Immiscible Layers (DNAPL and LNAPL), and Total Well Depth in Water.
- PSOP #9: Note Taking and Field Logs.
- PSOP #17: Monitoring Well Development.

The referenced PSOPs are included in Appendix B of the RIWP.

3.2.5 Groundwater Sampling

Groundwater samples will be collected for laboratory analysis from the RI-installed overburden monitoring wells (see Figure 5). The rationale for the groundwater sampling locations and the sampling frequency is to assess the distribution of COCs in groundwater and to evaluate if the COCs have originated on-Site or if the COCs are entering the Site from off-site sources.

Prior to groundwater sampling, the wells will be purged employing low-stress pumping techniques utilizing pumps capable of achieving low-flow pumping rates with appropriate new factory supplied tubing for each well. Field parameter readings of pH, specific conductance, and temperature will be recorded in 5-minute intervals from the start of purging using a multi-parameter water quality instrument. The water level and turbidity will be recorded at the same interval using separate meters. The monitoring wells will be sampled after three (3) consecutive 5-minute readings, with targeted turbidity values below 5 NTU, whereby the parameters meet the criteria listed in United States Environmental Protection Agency (USEPA) low stress sampling guidance document. If the formation cannot support low-flow rates, each monitoring well will be purged dry, then groundwater within the subject well will be allowed to recover to at least 80% of their initial static water level. Slow recharging wells will be allowed to recover for a period of up to four (4) hours before sampling.

The groundwater samples will be collected in order of decreasing volatility and constituents of concern beginning with VOCs, PFAS, and SVOCs followed by metals and then the remaining parameters to be analyzed. Field sampling personnel will wear a new pair of nitrile gloves at each monitoring well location. The samples will be placed in laboratory provided sampling containers and the containers will be placed in a laboratory

provided cooler containing wet ice. A chain of custody form will be completed and the chain of custody form will accompany the samples to the laboratory. The laboratory to be used for sample analysis is a NYSDOH ELAP Certified Laboratory. The following C.T. Male PSOPs will be followed by C.T. Male field personnel during collection of groundwater samples.

- PSOP #1: Measuring Static Water Level, Immiscible Layers (DNAPL and LNAPL), and Total Well Depth in Water.
- PSOP #2: Domestic Transport of Samples to Laboratories in the USA.
- PSOP #3: Chain of Custody Procedures.
- PSOP #5: Collection of Groundwater Samples Using Low-Flow Purging and Sampling.
- PSOP #6: Field Water Quality Measurements and Calibration.
- PSOP #9: Note Taking and Field Logs.
- PSOP #11: Collection of Quality Control Samples.
- PSOP #15: Equipment Decontamination Procedures.
- SOP Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, April 2023.

The referenced PSOPs are included in Appendix B of the RIWP.

The groundwater samples collected from the newly installed monitoring wells will be submitted for laboratory analyses for TCL VOCs, SVOCs, pesticides, PCBs, TAL metals, cyanide and 1,4-dioxane.

Groundwater samples collected from monitoring wells RI-MW-01, -03, -05, -06, -07, -09, and -11 along the Site perimeter and RI-MW-13 and -15 within central portions of the Site interior will also be submitted for laboratory analyses for PFAS, pH and TOC to provide an overall baseline of groundwater quality.

A second groundwater sampling event will be completed approximately three (3) months following the initial groundwater sampling event. The selection of monitoring well locations and analytical program for a second event, will be developed through coordination with the NYSDEC Project Manager.

3.2.6 Soil Gas (SG) Assessment

The Soil Gas (SG) assessment will be conducted to characterize soil gas conditions at the Site by installing soil gas sampling implants, which are depicted as soil gas points RI-SG-01 to RI-SB-12 on Figure 6.

Eight (8) soil gas (RI-SG-01 to -08) are proposed to be collected around the perimeter of the Site at the locations depicted on Figure 6. Additionally, four (4) soil gas samples (RI-SG-09 to -12) are proposed to be collected from the central portion of the Site to characterize soil gas conditions in the interior area. RI-SG-09 and RI-SG-11 are positioned within the approximate footprints of the two (2) former lacquer spraying areas. RI-SG-10 is located on the western central portion of the Site to provide additional coverage in this area. RI-SG-12 is positioned in the inferred downgradient area of the former auto sales & services building. RI-SG-08 and -09 are also located in the footprint of the proposed grocery store building and RI-SG-04 and -10 are located in the footprint of the proposed apartment building.

The ambient outdoor air sample is anticipated to be collected along the Site's western property boundary based on typical wind direction from west to east, although the location may be changed based on the wind direction during sampling. The SG assessment will be conducted in general accordance with the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006 with addendums). The samples will be collected with a 2-hour (minimum) sampling period, with the flow regulators not exceeding 0.2 L/minute.

Installation of the soil gas implants will consist of utilizing mechanical methods (i.e., soil boring utilizing Geoprobe drilling techniques) to install the implants in the vadose zone above the unconfined aquifer. Once the soil boring has been advanced, a stainless-steel sampling screen and attached inert tubing will be installed to a depth of approximately five (5) to seven (7) feet bgs.

Upon installation, a "leak check" will be performed as a check to ensure that ambient air will not enter the sampling stream. A tracer gas (i.e., helium) will be applied into a ground surface mounted structure overlying the exit point of the sample tubing. The tracer gas will be applied prior to sample collection and at the completion of sampling. The tracer gas will be measured employing a portable field measuring instrument. The soil gas sampling stream will be considered acceptable if the tracer gas concentration is measured

at less than 10 percent. If the tracer gas is measured at concentrations exceeding 10 percent, additional measures will be undertaken to seal the soil vapor sampling apparatus until tracer gas concentrations are less than 10 percent. Additionally, a shut-in leak test will be completed on the sample tubing once the sampling stream is completed to confirm there is minimal/no pressure lost prior to, and following sample collection.

Prior to sampling, one (1) to three (3) air volumes will be purged from each sampling point and tubing. The soil gas samples will be collected in a laboratory batch-certified clean Summa canister with a pre-set air flow regulator. The requisite volume of soil gas will be collected, and the sample forwarded to the NYSDOH ELAP Certified Laboratory for analysis for VOCs by EPA Method TO-15.

The outdoor air quality sampling location will be determined in the field at the time of sampling and will be selected upwind of the Site in an area not subject to wind obstructions and away from features and activities that may emit vapors (proposed to be located along the western Site boundary based on average prevailing wind direction). The outdoor air quality sample will be collected in a laboratory batch-certified clean Summa canister with pre-set air flow regulator. The requisite volume of outdoor air will be collected, and the sample forwarded to the NYSDOH ELAP Certified Laboratory of record for analysis for VOCs by EPA Method TO-15.

The following C.T. Male PSOPs will be followed by C.T. Male field personnel during collection of air samples.

- PSOP #2: Domestic Transport of Samples to Laboratories in the USA.
- PSOP #3: Chain of Custody Procedures.
- PSOP #9: Note Taking and Field Logs.
- PSOP #11: Collection of Quality Control Samples.
- PSOP #22: Collection of Soil Gas and Sub-Slab Soil Vapor Samples

The referenced PSOPs are included in Appendix B of the RIWP.

3.2.7 Field Quality Control

Field Quality Control samples include Equipment Blanks, Duplicates, and Matrix Spike/Matrix Spike Duplicates (MS/MSD). A full set of Quality Control samples will be prepared for soil and groundwater media at a ratio of one (1) set of Quality Control samples per each 20 media samples to be analyzed for TCL VOCs, SVOCs, 1,4-dioxane,

pesticides, PCBs, TAL metals and cyanide. Laboratory prepared Trip Blanks will be submitted with aqueous samples requiring analysis for TCL VOCs.

PFAS Quality Assurance/Quality Control (QAQC) protocols described in Appendix B and Appendix C of the Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) guidance document under NYSDEC's Part 375 Remedial Programs, April 2023 will be followed for soil and groundwater media. One (1) aqueous equipment blank sample will be collected per day that samples are being collected for PFAS analysis to confirm proper decontamination practices are being followed.

A Duplicate Quality Control sample will be prepared for soil gas media at a ratio of one (1) set of Quality Control samples per 20 media samples.

3.2.8 Laboratory Reporting and Data Validation

The laboratory will generate NYSDEC ASP Category B data deliverable packages of the RI analytical data. A Data Usability Summary Report (DUSR) of the analytical data developed during this RI will be prepared to confirm that it is valid and usable for subsequent decision making purposes. The DUSR will be completed by an independent data validator.

3.2.9 Survey

A horizontal and vertical survey will be completed to locate the horizontal and vertical distribution of RI sampling points and other pertinent Site features.

The horizontal locations of the surface soil and soil gas point sampling locations; soil borings; and monitoring wells and other pertinent surface features will be surveyed using classic and GPS survey techniques by a NYS licensed surveyor. The locations and features will be amended to the pertinent figures (Figures 4 to 6).

At the time the monitoring wells are sampled, depth to groundwater measurements will be recorded for the purpose of determining the direction of groundwater movement across the site. For the purpose of determining the direction of groundwater movement, the vertical elevations of the top of the well casings will be established from an established benchmark within the Site. The groundwater elevations will be used to construct groundwater contour maps for groundwater for inclusion in the RI Report.

3.2.10 Wetland Delineation

The Site and its surroundings are located in a dense, urban setting. No suspected wetlands were observed on the Site during past investigations. As such, a wetland delineation will not be performed as a function of this RI.

3.2.11 Fish and Wildlife Resource Impact Analysis

A Fish and Wildlife Resource Impact Analysis Part 1 (FWRIA Part 1) will be completed to assess actual and potential effects of site-related contaminants and/or redevelopment activities on fish and wildlife resources associated with Cemetery Pond, Cowhorn Creek, and Vale Park, located northeast of the Site.

3.2.12 Well Search

A well search will be focused on NYSDEC groundwater permitted withdrawals for non-potable uses since the City is served by public water.

3.2.13 Qualitative Environmental and Human Health Exposure Assessment

A qualitative environmental human health exposure assessment of the Site will be completed in general accordance with Appendix 3B of DER-10. At a minimum, the exposure assessment will evaluate the four (4) elements associated with exposure pathways. The elements include the following.

1. A description of the contaminant source(s) including the location of the contaminant release to the environment or if the original source is unknown, the contaminated environmental medium at the point of exposure.
2. An explanation of the contaminant release and transport mechanisms to the exposed population.
3. Identification of all potential exposure point(s) where actual or potential human and/or fish and wildlife contact with a contaminated medium may occur. Potential exposure routes include fill/soil, soil gas and groundwater.
4. Description(s) of the route(s) of exposure (i.e., ingestion, inhalation, dermal absorption).

A characterization of the receptor populations who may be exposed to contaminants at a point of exposure will be established.

3.3 Project Standards, Criteria and Guidance

The RI will include 1) the collection of soil samples for laboratory analyses for the TCL/TAL/Emerging Contaminants (ECs) Parameters, 2) the collection of groundwater samples for laboratory analyses for the TCL/TAL/ECs Parameters, and 3) the collection of soil gas and air samples for analyses for VOCs by EPA TO-15.

3.3.1 Soil

Soil analytical results (other than PFAS) will be compared to SCOs for Groundwater Protection, Unrestricted, Restricted-Residential, and Commercial Use Sites promulgated at NYSDEC 6 NYCRR Part 375, and NYSDEC guidance document CP-51 for applicable analytes.

Perfluorooctyl Sulfonate (PFOS) and Perfluorooctanoic Acid (PFOA) in soil will be compared to Interim Guidance Values for Anticipated Site Use (Unrestricted, Restricted Residential and Commercial Use) for PFOS and PFOA promulgated in Sampling, Analyses, and Assessment of PFAS Under NYSDEC's Part 375 Remedial Programs, April 2023.

3.3.2 Groundwater

Groundwater sampling analytical results will be compared to standards and guidance values promulgated in the NYSDEC Division of Water Technical and Operational Guidance Series (TOGS 1.1.1) and addenda.

3.3.3 Soil Gas

There are no formal guidance values that are applicable to the soil gas results to be obtained as part of the RI.

3.4 Investigation Derived Wastes

Investigation derived wastes (IDW) from the RI may include drill cuttings from the soil borings, monitoring well development and purge water, decontamination water from manual tool cleaning, and disposable items such as bailers, nitrile gloves, plastic, wipes, etc. Water and soil IDW will be stored in separate drums.

Excess drill cuttings from borings will be drummed, labeled, and staged at a secure location within the Site pending off-site disposal. The contents of the drums will be characterized and profiled for off-site disposal.

Investigation generated water, including well development and sampling purge water, will be collected and containerized until it can be properly disposed of off-site.

Decontamination water from manual tool cleaning will be drummed, labeled and staged at a secure location within the Site pending off-site disposal. The contents of the drums will be characterized and profiled for off-site disposal.

Disposable items such as bailers, nitrile gloves, plastic, wipes, etc. will be disposed of off-site as solid waste.

The following C.T. Male PSOPs will be followed by C.T. Male field personnel during management of investigation derived wastes.

- PSOP #9: Note Taking and Field Logs.
- PSOP #13: Investigative Derived Waste Sampling and Disposal.

The referenced PSOPs are included in Appendix B of the RIWP.

3.5 Subcontractors

Subcontractors will be retained to aid in the completion of the RI. A C.T. Male qualified environmental professional (as defined by 6NYCRR Part 375) or NYS licensed Professional Engineer (P.E.) will oversee subcontracted field work for this RI in order to properly certify acceptable operations were performed. These include a drilling subcontractor for completion of the soil borings & installation of monitoring wells, an environmental laboratory for laboratory analysis of the media samples, and a data validation company to provide independent third-party validation of the laboratory data. The following identifies subcontractors that have been selected to perform the work.

-The drilling subcontractor has not yet been determined.

-The laboratory analyses of media samples will tentatively be Pace Analytical (Pace) of Westborough, Massachusetts. Pace is certified by the NYSDOH ELAP to perform the specific analyses requested.

-Data validation of the laboratory data will be performed by Environmental Data Services, Inc. of Palm Beach Gardens, Florida.

DRAFT

4.0 SUPPLEMENTAL PLANS

4.1 Quality Assurance/ Quality Control Plan (QAPP)

The Quality Assurance/Quality Control Plan (QAPP) describes the quality assurance and quality control procedures to be followed from the time media samples are collected to the time they are analyzed by the environmental analytical laboratory and evaluated by a third party according to USEPA and NYSDEC Data Usability Summary Report (DUSR) guidelines. The QAPP is presented in Appendix C of this RIWP.

The QAPP will be followed by field personnel during the RI activities and media sampling events. It will also be used by the project management team and Quality Assurance Officer to assure the data collected and generated is representative and accurate. The laboratory results will be reported with NYSDEC ASP Category B deliverables, which will be subjected to USEPA and NYSDEC's DUSR guidelines to determine if the data is valid and usable.

4.2 Health and Safety Plan

A Site-specific Health and Safety Plan (HASP) has been prepared for this project to address C.T. Male's site worker health and safety hazards. The HASP is presented in Appendix D of the RIWP. Subcontractors will be required to develop their own HASP for work they will perform. A Community Air Monitoring Plan (CAMP) will be used during the RI field activities in accordance with the New York State Department of Health Generic CAMP, which is included in Attachment A of the HASP.

4.3 Citizen Participation (CP) Plan

A project-specific Citizen Participation Plan (CP Plan) has been developed as a standalone document in general accordance with NYSDEC DER-10: Technical Guidance for Site Investigation and Remediation and NYSDEC DER-23: Citizen Participation Handbook for Remedial Programs. The objective of the plan is to disseminate information to the public regarding the RI and other activities at the Site and to involve the public in the decision making process. This is accomplished by keeping the public informed of the investigation through direct mailings, email, public notice in local newspapers and other publications, and by having project documents available for review at publicly accessible

repository locations and via the NYSDEC website. Although the CP Plan is a standalone document available for review in the document repositories, it also should be considered an integral part of the RIWP.

DRAFT

5.0 REPORTING AND SCHEDULE

5.1 Reporting

5.1.1 Draft RIR

Upon completion of field activities and receipt of an independent validation of the analytical laboratory data, a Draft RIR will be prepared. The RIR will summarize and discuss the investigations completed and summarize any deviations to the work plan. The report will present the investigations at the Site, analytical results of samples collected and analyzed, and interpretations of the data. The RIR will also summarize additional records that have been reviewed, as applicable.

Regardless of the units provided by the laboratory as outputs of the laboratory analyses, the RIWP data tables will be formatted to coincide with the units for the particular regulatory/guidance criteria for each contaminant and media.

5.1.2 CAMP Reporting

A summary of daily CAMP results will be prepared for each day that ground-intrusive field activities requiring CAMP are performed. The daily summary will include monitoring locations, prevailing wind direction, downloaded data spreadsheets for particulate and VOC continuous readings measurements, and a brief summary of field activities performed. Exceedances, if any, will be noted along with response actions taken and relevant observations. The daily CAMP summary will be provided via email to the NYSDEC within 24 hours of completing ground-intrusive activities as described in the Site-specific HASP.

5.1.3 RI Data Results

Data collected during RI activities will be uploaded to NYSDEC's EQuIS environmental data management system in its appropriate format.

5.2 Schedule

NYSDEC will be notified at least 5 business or calendar days prior to field activities being performed to facilitate potential oversight of the field activities.

The following table provides the estimated schedule for the completion of the RI. The overall progress of the project will be dependent upon a number of factors including, but not limited to, NYSDEC review and approval timeframes and weather conditions at the time the RI investigations are initiated.

DESCRIPTION	ESTIMATED START	ESTIMATED FINISH
Prepare Draft RIWP	March 2026	April 2026
NYSDEC Review of the Draft RIWP	April 2026	June 2026
Prepare the 2nd Draft RIWP	~~June~~ August 2026	~~July~~ August 2026
NYSDEC Review of the 2nd Draft RIWP	~~July~~ August 2026	~~August~~ September 2026
Public Review Period of the Draft RIWP	~~August~~ September 2026	~~September~~ October 2026
Finalize the RIWP	~~September~~ October 2026	October 2026
RI Field Work (includes Second round of groundwater sampling)	October 2026	January 2027[1]
Prepare Draft RIR and Draft RAWP	February 2027	March 2027
NYSDEC Review of the Draft RIR and Draft RAWP	March 2027	April 2027
Prepare the 2nd Draft RIR and the 2nd Draft RAWP	April 2027	May 2027
NYSDEC Review of the 2nd Draft RIR and the 2nd Draft RAWP	May 2027	June 2027
Public Review Period of the Draft RAWP	June 2027	August 2027
Finalize the Draft RIR and Draft RAWP	August 2027	September 2027

[1] To the extent the sampling discussed herein results in detections that require additional data gaps to be filled or off-site sampling to be conducted, at least one (1) additional round of sampling will be needed which will require additional analyses, regulatory approvals, field days and reporting. Additionally, this task does not include implementation of IRMs.

6.0 COMMUNICATIONS

Written communications required by the BCA will be transmitted by electronic means, whenever possible. Paper copies will be provided upon request.

1. Communication from Volunteer shall be sent to:

- Robert Doyle, NYSDEC Project Manager
  NYS Department of Environmental Conservation
  Division of Environmental Remediation
  1130 North Westcott Road
  Schenectady, NY 12306
  robert.doyle@dec.ny.gov

- Juniper~~acob~~ Tyler
  New York State Department of Health
  Bureau of Environmental Exposure Investigation
  6 Empire State Plaza
  Albany, NY 12242
  ~~jacob.tyler@health.ny.gov~~Juniper.tyler@health.ny.gov

- Stephen Repsher, Esq. (correspondence only)
  NYS Department of Environmental Conservation
  Office of General Counsel
  1130 North Westcott Road
  Schenectady, NY 12306
  stephen.repsher@dec.ny.gov

2. Communication from the Department to Volunteer shall be sent to:

- Albany State Street Limited Partnership
  Attention: Jesse Batus
  53 W 36th Street
  New York, NY 10018
  jbatus@tcbinc.org

7.0 GREEN AND SUSTAINABLE TECHNIQUES

Green and sustainable remediation best management practices (BMPs) will be employed to the extent practicable during ~~the course of~~ the proposed RI activities and throughout the project. Examples of BMPs are ~~provided in a Fact Sheet and Program Policy prepared by NYSDEC, and Green Management BMPs provided by the US Environmental Protection Agency (USEPA), which are included as Exhibit 2 and are entitled~~ as follows:

- NYSDEC Green and Sustainable Remediation and Climate Resiliency Fact Sheet, Released June 2023.
- NYSDEC DEC Program Policy DER-31/Green Remediation, date issued August 11, 2010, latest date revised January 20, 2011.
- USEPA Green Remediation Best Management Practices: Excavation and Surface Restoration, August 2019 Update.

C.T. Male field personnel and the environmental sub-contractor(s) will be responsible for perusing the aforementioned documents and implementing green and sustainable remediation BMPs to the extent practicable.

At a minimum, the following BMPs will be implemented:

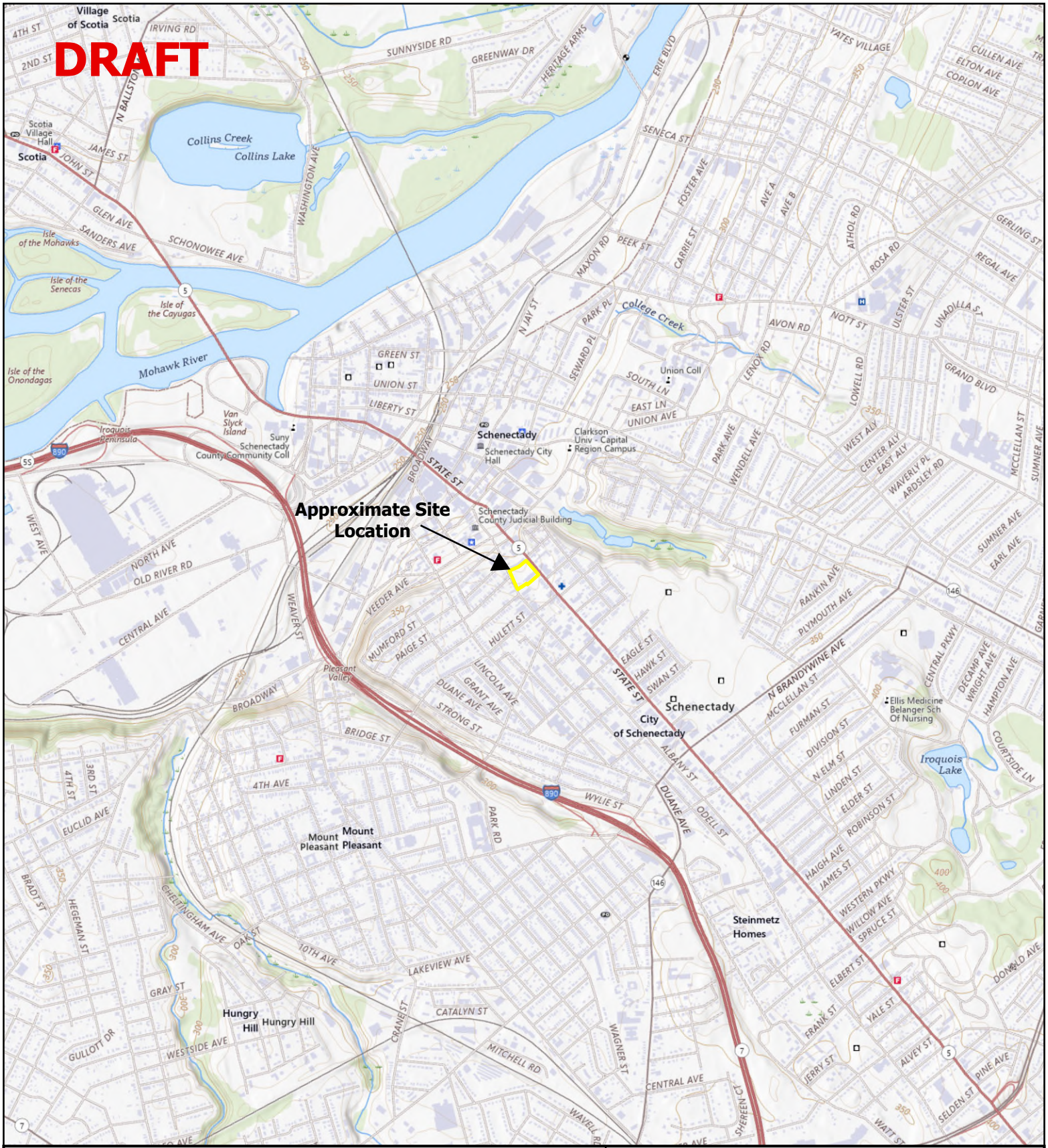
- Coordinate RI activities with IRM tasks to reduce mobilizations, equipment use, and site disturbance.
- Conduct work in previously disturbed or paved areas where feasible to minimize land impacts.
- Implement low-flow (minimal drawdown) groundwater sampling to reduce purge water generation.
- Minimize investigation-derived waste (IDW) through careful sample volume and drilling planning.
- Segregate drill cuttings, purge water, and decontamination fluids for efficient characterization and disposal.
- Employ batch decontamination of drilling equipment to reduce water consumption.
- Minimize equipment idling and implement anti-idling practices

Across all RI tasks, BMPs will be implemented to reduce emissions and community impacts, including minimizing equipment idling, consolidating field activities to reduce site visits, and implementing dust suppression, if needed, and CAMP monitoring during

intrusive work. Coordination of RI activities with the planned IRM will further reduce duplication of efforts and associated environmental impacts. Collectively, these measures support a sustainable approach to site investigation while maintaining the technical rigor necessary to delineate the nature and extent of contamination and support development of remedial actions for the Site.

DRAFT

FIGURES OF THE RIWP



Legend

Approximate Site Location

N
W
E
S

0 1,000 2,000 4,000 6,000 Feet

1 in =2,000 Feet

Project Number: 23.3588
Data Source: NYSGIS Clearinghouse
Projection: NAD 1983 StatePlane New York East FIPS 3101 (US Feet)
Date: April 6, 2026
Updated: June 11, 2026
File: 233588_Hamilton_Hill_Rehab.aprx
GIS: C Bondi

FIGURE 1
SITE LOCATION MAP
HAMILTON HILL REVITALIZATION - ANCHOR SITE
(BCP Site #C447055)

750 State Street, City of Schenectady, Schenectady County, NY

C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture, Landscape Architecture & Geology, D.P.C.
50 CENTURY HILL DRIVE, LATHAM, NY 12110
518.786.7400 * FAX 518.786.7299

STATE STREET
(A.K.A. STATE ROUTE 5)
(ASPHALT ROADWAY)
(TWO WAY TRAFFIC)

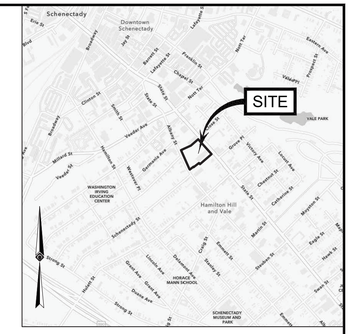
NAD83 (2011) N.Y.S. P.C.S. EAST ZONE

LEGEND

- OH — OVERHEAD WIRES
- G — APPROX. LOC. UNDERGROUND NATURAL GAS LINE
- W — APPROX. LOC. UNDERGROUND WATER LINE
- QC — SUBSURFACE UTILITY QUALITY LEVEL C
- HYDRANT
- WV — WATER VALVE
- GV — GAS VALVE
- D — DRAINAGE/STORM MANHOLE
- S — SANITARY/SEWER MANHOLE
- CATCH BASINS
- C — CONDUIT PIPE
- P — POST
- MONITORING WELL
- GUY WIRE
- UP — UTILITY POLE
- UPLPSP — UTILITY POLE/LIGHT POLE/SOLAR PANEL
- SIGN
- BOLLARD
- GATE POST
- AREA LIGHT
- 10 — PARKING SPACE COUNT
- EDC — EDGE OF GRAVEL
- EOP — EDGE OF PAVEMENT
- TYP — TYPICAL
- SBL — SOLID BLUE LINE
- SWL — SOLID WHITE LINE
- SYL — SOLID YELLOW LINE
- EVIDENCE FOUND

GRANITE CURB
PAVER WALK
CONC. WALK
ASPHALT
BUILDING ON LINE
CONC. BARRIER (TYP)
GATE
BLUE STONE CURB
ASPHALT WALK
PAVER WALK
BLOCK WALL
HEDGEROW
CONC. BARRIER (TYP)
S42°21'43"E
264.30'
6' CHAIN LINK FENCE
S40°19'22"E
35.00'
ASPHALT SURFACE
SWL (TYP)
N48°44'05"E
144.56'
0.1'
1 STORY BRICK BUILDING
0.3'
LANDS N/F OF HIGHBRIDGE DEVELOPMENT STATE ST., LLC D.B. 1971, PG. 408 TM# 49.25-1-10.12 738 STATE ST
1.2'
0.1'
0.2'
SYL (TYP)
EDGE OF WOODS
N65°39'02"E
163.34'
BACK OF WALL & 6' CHAIN LINK FENCE
LANDS N/F OF COUNTY OF SCHENECTADY D.B. 2129, PG. 625 TM# 49.25-1-15.1 742 STATE ST
GRAVEL
LOT LINE TO BE REMOVED
EOP
LANDS N/F OF COUNTY OF SCHENECTADY D.B. 1691 PG. 379 TM# 49.25-1-21.1 754 STATE ST
LANDS N/F OF COUNTY OF SCHENECTADY D.B. 2129, PG. 635 TM# 49.25-1-22 758 STATE ST
S48°52'07"W
229.98'
SIGN
GRAVEL
ASPHALT SURFACE
LANDS N/F OF MELOCRAFT DEVELOPMENT, LLC D.B. 2084, PG. 98 TM# 49.25-1-23.111 771 ALBANY ST
IRON PIPE FOUND
15'
6.9'
N37°34'32"W
23.02'
Approximate Location of Used Oil Filter Storage Bin
S51°55'50"W
99.79'
LANDS N/F OF MELOCRAFT DEVELOPMENT, LLC D.B. 2084, PG. 98 TM# 49.25-1-48 749 ALBANY ST
GRASS
N38°08'51"W
7.29'
9.3'
65.1'
1 STORY FRAME ADDITION BUILDING HEIGHT = 17.0'± BUILDING FOOTPRINT AREA = 4,256 ± S.F.
S52°29'43"W
70.11'
N37°40'53"W
6.08'
P.O.B. PERIMETER DESCRIPTION
N24°12'13"W
313.56'
CITY STREET BOUNDARY
ALBANY STREET
(VARIABLE WIDTH R.O.W.)
(ASPHALT ROADWAY)
(TWO WAY TRAFFIC)

GRAPHIC SCALE
20 0 10 20 40 80
(IN FEET)
1 inch = 20 ft.



VICINITY MAP
© 2022 ESRI WORLD LIGHT GRAY CANVAS
(NOT TO SCALE)

NOTES:

1. PROPERTY KNOWN AS LOTS 15.1, 21.1, 22 & 48, BLOCK 1, SECTION 49.25, CITY OF SCHENECTADY, SCHENECTADY COUNTY, STATE OF NEW YORK.
2. AREAS: LOT 15.1 = 60,409 SQUARE FEET OR 1.387 ACRES
   LOT 21.1 = 24,143 SQUARE FEET OR 0.554 ACRES
   LOT 22 = 8,011 SQUARE FEET OR 0.184 ACRES
   LOT 48 = 14,784 SQUARE FEET OR 0.339 ACRES
   TOTAL = 107,347 SQUARE FEET OR 2.464 ACRES
3. THE LOCATION OF UNDERGROUND UTILITIES HAVE NOT BEEN SHOWN. UTILITY INFORMATION SHOWN IS LIMITED TO VISIBLE UTILITY HARDWARE AND UTILITY MARKOUTS AT THE SURFACE AND DOES NOT INCLUDE SUCH ITEMS AS SUBSURFACE PIPING, UTILITY LINES, ETC. BEFORE ANY EXCAVATION IS TO BEGIN, UNDERGROUND UTILITIES SHOULD BE VERIFIED BY THE PROPER UTILITY COMPANIES. CONTROL POINT ASSOCIATES, INC. DOES NOT GUARANTEE THE UTILITIES SHOWN COMPRISE ANY OR ALL SUCH UTILITIES IN THE AREA EITHER IN SERVICE OR ABANDONED.
4. THIS PLAN IS BASED ON A SURVEY PREPARED IN THE FIELD BY CONTROL POINT ASSOCIATES, INC. (THE SURVEYOR), INFORMATION PROVIDED BY THE CLIENT AND OTHER REFERENCE MATERIAL AS LISTED HEREON. CHANGES TO THE PROPERTY AFTER THE FIELD DATE ARE NOT THE RESPONSIBILITY OF THE SURVEYOR.
5. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO THE RESTRICTIONS, COVENANTS AND/OR EASEMENTS THAT MAY BE CONTAINED THEREIN. IT IS IMPORTANT A COMPLETE TITLE SEARCH BE PROVIDED TO THE SURVEYOR FOR REVIEW PRIOR TO CONVEYANCE AND THE PLACEMENT OF OR ALTERATION TO IMPROVEMENTS ON THE PROPERTY. BOUNDARY AND EASEMENT LINES ARE BASED UPON AVAILABLE DOCUMENTATION AT THE TIME OF SURVEY AND ARE SUBJECT TO SAID TITLE REPORT.
6. EXISTING FIRM: BY GRAPHIC PLOTTING ONLY PROPERTY IS LOCATED IN FLOOD HAZARD ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% CHANCE FLOODPLAIN.) PER MAP REF #2.
7. THE EXISTENCE OF UNDERGROUND STORAGE TANKS, IF ANY, WAS NOT KNOWN AT THE TIME OF THE FIELD SURVEY. SURVEY DOES NOT ADDRESS ENVIRONMENTAL CONDITIONS OR LAND SUITABILITY.
9. THE OFFSETS SHOWN ARE NOT TO BE USED FOR THE CONSTRUCTION OF ANY STRUCTURE, FENCE, PERMANENT ADDITION, ETC.
10. ANY DISCREPANCIES FOUND ON THE SURVEY SHOULD BE REPORTED TO THE SURVEYOR IMMEDIATELY.
11. THIS SURVEY WAS PREPARED FOR THE CLIENT, ALBANY STATE STREET LIMITED PARTNERSHIP C/O THE COMMUNITY BUILDERS, INC. AND INTENDED ONLY FOR THE USE BY THE CLIENT AS CONTRACTED FOR THE PROJECT AND THE PURPOSE ORIGINALLY INTENDED. NO FURTHER PARTIES OTHER THAN THOSE CERTIFIED HEREON SHALL RELY ON IT FOR ANY PURPOSE.

REFERENCES:

1. THE OFFICIAL TAX ASSESSOR'S MAP OF THE CITY OF SCHENECTADY, SCHENECTADY COUNTY, STATE OF NEW YORK, MAP NO. 49.25
2. MAP ENTITLED "NATIONAL FLOOD INSURANCE PROGRAM, FIRM, FLOOD INSURANCE RATE MAP FOR SCHENECTADY COUNTY, NEW YORK, (ALL JURISDICTIONS), PANEL 162 OF 257", MAP NUMBER 360741, EFFECTIVE DATE: JANUARY 8, 2014.
3. MAP ENTITLED "ALTA/NSPS LAND TITLE SURVEY 770, 779, 783, 785 & 787 ALBANY STREET, TM# 49.25-1-39, 40, 41, 42 & PART OF 23.111, CITY OF SCHENECTADY, SCHENECTADY COUNTY, STATE OF NEW YORK", PREPARED BY CONTROL POINT ASSOCIATES INC., PC, DATED FEBRUARY, 23, 2024.
4. MAP ENTITLED "LOT LINE ADJUSTMENT PLAN LANDS KNOWN AS ST. NO.'S 768 & 770 STATE STREET and 771 ALBANY STREET, CITY OF SCHENECTADY, COUNTY OF SCHENECTADY, STATE OF NEW YORK", PREPARED BY ABD ENGINEERS & SURVEYORS, DATED DECEMBER 08, 2023.
5. MAP ENTITLED "SUBDIVISION OF LANDS OF 771 ALBANY STREET, TM #49.25-1-23.111, CITY OF SCHENECTADY, SCHENECTADY COUNTY, STATE OF NEW YORK" AS PREPARED BY CONTROL POINT ASSOCIATES INC., PC, DATED FEBRUARY 28, 2024.
6. MAP ENTITLED "ALTA/NSPS LAND TITLE SURVEY, LANDS N/F OF MOHAWK CHEV CO INC, HARADEN MOTORCAR CORP & TWO GUYZ REALTY, LLC, PREPARED FOR FIVE CORNERS DEV. GROUP, CITY OF SCHENECTADY, SCHENECTADY COUNTY, NEW YORK STATE" AS PREPARED BY MJ ENGINEERING AND LAND SURVEYING, P.C., DATED JUNE 28, 2023.

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STATE OF NEW YORK · WILLIAM THEODORE WHIMPLE · 50526 · LICENSED LAND SURVEYOR

MAY 14, 2025
DATE

WILLIAM T. WHIMPLE
NEW YORK PROFESSIONAL LAND SURVEYOR #50526

Figure 2
Survey Map
Hamilton Hill Revitalization-Anchor Site
BCP Site #C447055
750 State Street, Schenectady, NY

FIELD DATE	05-02-2025
FIELD BOOK NO.	25-2
FIELD BOOK PG.	2
FIELD CREW	D.L. / A.M.
DRAWN:	L.G.K.
REVIEWED:	D.J.D.

LOT CONSOLIDATION PLAN
742, 754 & 758 STATE STREET
749 ALBANY STREET
TM #49.25-1-15.1, 21.1, 22 & 48
CITY OF SCHENECTADY
SCHENECTADY COUNTY, STATE OF NEW YORK

CONTROL POINT ASSOCIATES INC PC
26 AVIATION ROAD
ALBANY, NY 12205
518.217.5010 · 908.668.5595 FAX
WWW.CPASURVEY.COM

WARREN, NJ 908.668.0099
CHAMPION, PA 215.512.3000
MT. LAUREL, NJ 609.727.1560
MANHATTAN, NY 646.780.0615
LONG ISLAND, NY 631.580.2643
SOUTHAMPTON, NY 631.287.5707
ROCHESTER, NY 585.310.1781
GEORGETOWN, DE 302.295.1010
PHILADELPHIA, PA 215.512.0900
HUDSON VALLEY, NY 845.691.7339
FT. LAUDERDALE, FL 954.763.7614

APPROVED:	DATE	SCALE	FILE NO.	SHEET
W.T.W.	05-14-2025	1" = 20'	09-230432	1 OF 1

DRAFT

Soil Removal Area 5
Soil Removal Area 1
Soil Removal Area 4
GP-7
GP-8
GP-9
GP-3/MW-3
B-102
TP-1
GP-11
GP-10
B-3
GP-2
GP-4/MW-4
GP-13
TP-2
GP-5
GP-1/MW-1
Former Site Building
Razed in 2024
GP-12
TP-3
GP-6/MW-6
GR-16
GP-14
GP-15
Germania Avenue
Albany Street
Grove Place
State Street
Paige Street

Legend

- Approximate Historic Soil Boring Location
- Approximate Historic Soil Boring/Monitoring Well Location
- Approximate Historic Test Pit Location
- Approximate Area of Historic Soil Removal
- Approximate Site Boundary
- Approximate Parcel Boundary
- Former Site Building Rased in 2024

N W E S

0 30 60 120 180 Feet

1 in = 60 Feet

Project Number: 23.3588
Data Source: NYSGIS Clearinghouse
Projection: NAD 1983 StatePlane New York East FIPS 3101 (US Feet)
Date: April 1, 2026
Updated: June 11, 2026
File: 233588_Hamilton_Hill_Rehab.aprx
GIS: C Bondi

FIGURE 3
HISTORIC SAMPLING LOCATIONS
HAMILTON HILL REVITALIZATION - ANCHOR SITE
(BCP Site #C447055)

750 State Street, City of Schenectady, Schenectady County, NY

C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture, Landscape Architecture & Geology, D.P.C.
50 CENTURY HILL DRIVE, LATHAM, NY 12110
518.786.7400 * FAX 518.786.7299

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Legend

- Proposed Soil Boring/Monitoring Well and Surface Soil Sampling Location
- Proposed Soil Boring and Surface Soil Sampling Location
- Proposed Soil Boring/Monitoring Well and Surface Soil Sampling Location to be Submitted for PFAS Laboratory Analysis
- Approximate Site Boundary
- Approximate Proposed IRM Location
- Approximate Parcel Boundary
- Former Site Building Rased in 2024

N W E S

0 30 60 120 180 Feet

1 in = 60 Feet

Project Number: 23.3588
Data Source: NYSGIS Clearinghouse
Projection: NAD 1983 StatePlane New York East FIPS 3101 (US Feet)
Date: April 21, 2026
Updated: June 11, 2026
File: 233588_Hamilton_Hill_Rehab.aprx
GIS: C Bondi

FIGURE 4
PROPOSED SOIL SAMPLING LOCATIONS
HAMILTON HILL REVITALIZATION - ANCHOR SITE
(BCP Site #C447055)

750 State Street, City of Schenectady, Schenectady County, NY

C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture, Landscape Architecture & Geology, D.P.C.
50 CENTURY HILL DRIVE, LATHAM, NY 12110
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RI-MW-01
RI-MW-02
RI-MW-12
RI-MW-13
RI-MW-11
RI-MW-03
RI-MW-04
RI-MW-14
RI-MW-15
RI-MW-10
RI-MW-05
RI-MW-09
RI-MW-16
RI-MW-08
RI-MW-07
RI-MW-06

Approximate Proposed IRM Location - Stormwater Drainage

Approximate Proposed IRM Location - Suspect UST

Former Site Building Razed in 2024

Approximate Proposed IRM Location - Partially Uncovered UST

Approximate Proposed IRM Location - AST and Storage Bin

Germania Avenue
Albany Street
State Street
Grove Place
Paige Street

Legend

- Proposed Soil Boring/Monitoring Well and Surface Soil Sampling Location
- Proposed Soil Boring/Monitoring Well and Surface Soil Sampling Location to be Submitted for PFAS Laboratory Analysis
- Approximate Proposed IRM Location
- Approximate Site Boundary
- Approximate Parcel Boundary
- Former Site Building Rased in 2024

0 30 60 120 180 Feet

1 in = 60 Feet

Project Number: 23.3588
Data Source: NYSGIS Clearinghouse
Projection: NAD 1983 StatePlane New York East FIPS 3101 (US Feet)
Date: April 21, 2026
Updated: June 11, 2026
File: 233588_Hamilton_Hill_Rehab.aprx
GIS: C Bondi

FIGURE 5
PROPOSED GROUNDWATER SAMPLING LOCATIONS
HAMILTON HILL REVITALIZATION - ANCHOR SITE
(BCP Site #C447055)

750 State Street, City of Schenectady, Schenectady County, NY

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Engineering, Surveying, Architecture, Landscape Architecture & Geology, D.P.C.
50 CENTURY HILL DRIVE, LATHAM, NY 12110
518.786.7400 * FAX 518.786.7299

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Approximate Proposed IRM Location - Stormwater Drainage

RI-SG-01

RI-SG-02

RI-SG-03

RI-SG-04

RI-SG-05

RI-SG-06

RI-SG-07

RI-SG-08

RI-SG-09

RI-SG-10

RI-SG-11

RI-SG-12

Approximate Proposed IRM Location - Suspect UST

Former Site Building Razed in 2024

Approximate Proposed IRM Location - Partially Uncovered UST

Approximate Proposed IRM Location - AST and Storage Bin

Germania Avenue

Albany Street

Paige Street

State Street

Grove Place

Legend

- Proposed Soil Gas Monitoring Location
- Approximate Site Boundary
- Approximate Proposed IRM Location
- Approximate Parcel Boundary
- Former Site Building Rased in 2024

N W E S

0 30 60 120 180 Feet

1 in = 60 Feet

Project Number: 23.3588
Data Source: NYSGIS Clearinghouse
Projection: NAD 1983 StatePlane New York East FIPS 3101 (US Feet)
Date: April 1, 2026
Updated: June 11, 2026
File: 233588_Hamilton_Hill_Rehab.aprx
GIS: C Bondi

FIGURE 6
PROPOSED SOIL GAS SAMPLING LOCATIONS
HAMILTON HILL REVITALIZATION - ANCHOR SITE
(BCP Site #C447055)

750 State Street, City of Schenectady, Schenectady County, NY

C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture, Landscape Architecture & Geology, D.P.C.
50 CENTURY HILL DRIVE, LATHAM, NY 12110
518.786.7400 * FAX 518.786.7299

APPENDIX A

HISTORICAL SITE ASSESSMENT DATA

TABLE 1

SUMMARY OF SOIL SAMPLING RESULTS AND REGULATORY VALUES
PHASE II ENVIRONMENTAL SITE ASSESSMENT
SCHENECTADY 40 ANCHOR SITE

					SAMPLE ID	GP-1 13-16.5			GP-2 7-7.5			GP-3 4-5			GP-4 10-11			GP-4 15-16			GP-5 1-2			GP-6 0-2			B102_8-10		
					LAB ID	L2370406-01			L2370406-02			L2370406-03			L2370406-04			L2370406-05			L2370406-06			L2370406-07			L2373704-01		
					COLLECTION DATE	11/29/2023			11/29/2023			11/29/2023			11/29/2023			11/29/2023			11/29/2023			11/29/2023			12/13/2023		
ANALYTE	**NY-UNRES**	**NY-RESR**	**NY-RESRR**	**NY-RESC**	**NY-RESI**	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL
VOLATILE ORGANICS BY EPA 5035																													
Toluene	0.7	100	100	500	1000	ND		0.001	ND		0.0013	ND		0.00097	ND		0.0015	0.042	J	0.056	ND		0.00092	ND		0.00094	-	-	-
Ethylbenzene	1	30	41	390	780	ND		0.001	ND		0.0013	ND		0.00097	ND		0.0015	0.029	J	0.056	ND		0.00092	ND		0.00094	-	-	-
p/m-Xylene	NS	NS	NS	NS	NS	ND		0.002	ND		0.0026	ND		0.0019	ND		0.003	0.08	J	0.11	ND		0.0018	ND		0.0019	-	-	-
o-Xylene	NS	NS	NS	NS	NS	ND		0.001	ND		0.0013	ND		0.00097	ND		0.0015	0.027	J	0.056	ND		0.00092	ND		0.00094	-	-	-
n-Butylbenzene	12	100	100	500	1000	ND		0.001	ND		0.0013	ND		0.00097	ND		0.0015	8.9		0.056	ND		0.00092	ND		0.00094	-	-	-
sec-Butylbenzene	11	100	100	500	1000	ND		0.001	ND		0.0013	ND		0.00097	ND		0.0015	3.1		0.056	ND		0.00092	ND		0.00094	-	-	-
tert-Butylbenzene	5.9	100	100	500	1000	ND		0.002	ND		0.0026	ND		0.0019	ND		0.003	0.077	J	0.11	ND		0.0018	ND		0.0019	-	-	-
Isopropylbenzene	NS	NS	NS	NS	NS	ND		0.001	ND		0.0013	ND		0.00097	ND		0.0015	1.4		0.056	ND		0.00092	ND		0.00094	-	-	-
p-Isopropyltoluene	NS	NS	NS	NS	NS	ND		0.001	ND		0.0013	ND		0.00097	ND		0.0015	0.056		0.056	ND		0.00092	ND		0.00094	-	-	-
Naphthalene	12	100	100	500	1000	ND		0.0041	ND		0.0051	ND		0.0039	0.0012	J	0.006	0.68		0.22	ND		0.0037	ND		0.0038	-	-	-
n-Propylbenzene	3.9	100	100	500	1000	ND		0.001	ND		0.0013	ND		0.00097	ND		0.0015	7		0.056	ND		0.00092	ND		0.00094	-	-	-
1,3,5-Trimethylbenzene	8.4	47	52	190	380	ND		0.002	ND		0.0026	ND		0.0019	ND		0.003	0.026	J	0.11	ND		0.0018	ND		0.0019	-	-	-
1,2,4-Trimethylbenzene	3.6	47	52	190	380	ND		0.002	ND		0.0026	ND		0.0019	ND		0.003	9.2		0.11	ND		0.0018	ND		0.0019	-	-	-
Cyclohexane	NS	NS	NS	NS	NS	ND		0.01	ND		0.013	ND		0.0097	ND		0.015	0.12	J	0.56	ND		0.0092	ND		0.0094	-	-	-
Methyl cyclohexane	NS	NS	NS	NS	NS	ND		0.0041	ND		0.0051	ND		0.0039	ND		0.006	0.28		0.22	ND		0.0037	ND		0.0038	-	-	-
SEMIVOLATILE ORGANICS BY GC/MS																													
Acenaphthene	20	100	100	500	1000	ND		0.15	ND		0.17	ND		0.15	2.4		1.7	0.13	J	0.15	0.041	J	0.14	ND		0.16	ND		0.15
Fluoranthene	100	100	100	500	1000	0.18		0.11	ND		0.13	0.26		0.11	46		1.2	3.1		0.11	2.6		0.11	0.079	J	0.12	0.084	J	0.11
Naphthalene	12	100	100	500	1000	ND		0.19	ND		0.22	ND		0.19	1.5	J	2.1	0.75		0.18	0.13	J	0.18	ND		0.2	ND		0.18
Benzo(a)anthracene	1	1	1	5.6	11	0.051	J	0.11	ND		0.13	0.092	J	0.11	21		1.2	1.5		0.11	1.8		0.11	0.041		0.12	0.04	J	0.11
Benzo(a)pyrene	1	1	1	1	1.1	0.061	J	0.15	ND		0.17	0.11	J	0.15	21		1.7	1.6		0.15	1.9		0.14	ND		0.16	ND		0.15
Benzo(b)fluoranthene	1	1	1	5.6	11	0.11		0.11	ND		0.13	0.16		0.11	22		1.2	1.6		0.11	2.2		0.11	0.056	J	0.12	0.054	J	0.11
Benzo(k)fluoranthene	0.8	1	3.9	56	110	0.031	J	0.11	ND		0.13	0.05	J	0.11	6.9		1.2	0.52		0.11	0.6		0.11	ND		0.12	ND		0.11
Chrysene	1	1	3.9	56	110	0.11		0.11	ND		0.13	0.14		0.11	20		1.2	1.3		0.11	1.8		0.11	0.045	J	0.12	0.036		0.011
Acenaphthylene	100	100	100	500	1000	ND		0.15	ND		0.17	ND		0.15	1.6	J	1.7	0.52		0.15	0.49		0.14	ND		0.16	ND		0.15
Anthracene	100	100	100	500	1000	ND		0.11	ND		0.13	ND		0.11	8.3		1.2	0.77		0.11	0.39		0.11	ND		0.12	ND		0.11
Benzo(ghi)perylene	100	100	100	500	1000	0.059	J	0.15	ND		0.17	0.085	J	0.15	12		1.7	0.95		0.15	1.3		0.14	0.047	J	0.16	0.028	J	0.15
Fluorene	30	100	100	500	1000	ND		0.19	ND		0.22	ND		0.19	3		2.1	0.37		0.18	0.064	J	0.18	ND		0.2	ND		0.18
Phenanthrene	100	100	100	500	1000	0.082	J	0.11	ND		0.13	0.093	J	0.11	34		1.2	2.3		0.11	0.79		0.11	0.051	J	0.12	0.026	J	0.11
Dibenzo(a,h)anthracene	0.33	0.33	0.33	0.56	1.1	ND		0.11	ND		0.13	ND		0.11	2.8		1.2	0.18		0.11	0.26		0.11	ND		0.12	ND		0.11
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	5.6	11	0.048	J	0.15	ND		0.17	0.076	J	0.15	10		1.7	1		0.15	1.4		0.14	0.038	J	0.16	0.032	J	0.15
Pyrene	100	100	100	500	1000	0.15		0.11	ND		0.13	0.21		0.11	45		1.2	2.9		0.11	3		0.11	0.068	J	0.12	0.075	J	0.11
POLYCHLORINATED BIPHENYLS BY GC																													
Aroclor 1254	0.1	1	1	1	25	0.0103	J	0.0552	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Total	0.1	1	1	1	25	0.0103	J	0.0552	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

All values are shown in mg/kg or parts per million.

Shaded values exceed their respective SCOs

Only the compounds that were detected are listed.

ND = Not Detected above the laboratory method detection limit

NS = No Standard

J = Estimated Value

NY-UNRES= New York NYCRR Part 375 New York Unrestricted use Criteria Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

NY-RESR = New York NYCRR Part 375 Residential Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

NY-RESRR = New York NYCRR Part 375 Restricted-Residential Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

NY-RESC = New York NYCRR Part 375 Commercial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

NY-RESI = New York NYCRR Part 375 Industrial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

TABLE 1

SUMMARY OF SOIL SAMPLING RESULTS AND REGULATORY VALUES
PHASE II ENVIRONMENTAL SITE ASSESSMENT
SCHENECTADY 40 ANCHOR SITE

						SAMPLE ID	GP-1 13-16.5			GP-2 7-7.5			GP-3 4-5			GP-4 10-11			GP-4 15-16			GP-5 1-2			GP-6 0-2			B102_8-10		
						LAB ID	L2370406-01			L2370406-02			L2370406-03			L2370406-04			L2370406-05			L2370406-06			L2370406-07			L2373704-01		
						COLLECTION DATE	11/29/2023			11/29/2023			11/29/2023			11/29/2023			11/29/2023			11/29/2023			11/29/2023			12/13/2023		
ANALYTE	**NY-UNRES**	**NY-RESR**	**NY-RESRR**	**NY-RESC**	**NY-RESI**		Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL
TOTAL METALS																														
Antimony, Total	NS	NS	NS	NS	NS		0.65	J	4.47	1.01	J	5.01	1.16	J	4.39	3.65	J	5.04	0.383	J	4.32	1.37	J	4.14	1.18	J	4.63	ND		4.19
Arsenic, Total	13	16	16	16	16		5.14		0.895	7.82		1	8.4		0.878	12.3		1.01	2.09		0.864	8.12		0.829	8.36		0.927	4.82		0.838
Barium, Total	350	350	400	400	10000		78.1		0.895	61.9		1	56.6		0.878	59.3		1.01	23.5		0.864	96.1		0.829	42.5		0.927	56.4		0.838
Beryllium, Total	7.2	14	72	590	2700		0.453		0.447	0.982		0.501	0.463		0.439	0.457	J	0.504	0.327	J	0.432	0.456		0.414	0.466		0.463	0.261	J	0.419
Cadmium, Total	2.5	2.5	4.3	9.3	60		0.14	J	0.895	0.14	J	1	0.324	J	0.878	1.29		1.01	0.105	J	0.864	0.309	J	0.829	0.367	J	0.927	0.379	J	0.838
Calcium, Total	NS	NS	NS	NS	NS		32600		8.95	4220		10	43400		8.78	5950		10.1	5460		8.64	13000		8.29	104000		9.27	12700		8.38
Chromium, Total	NS	NS	NS	NS	NS		9.01		0.895	10.5		1	12		0.878	8.43		1.01	5.52		0.864	8.11		0.829	16.3		0.927	5.63		0.838
Cobalt, Total	NS	NS	NS	NS	NS		4.26		1.79	8.54		2	6.45		1.76	5.21		2.02	3.1		1.73	4.93		1.66	11.8		1.85	3.38		0.838
Copper, Total	50	270	270	270	10000		63.9		0.895	31.1		1	25.8		0.878	48.1		1.01	9.77		0.864	51.6		0.829	30.6		0.927	14.3		0.838
Iron, Total	NS	NS	NS	NS	NS		10900		4.47	12200		5.01	14500		4.39	19300		5.04	9480		4.32	13300		4.14	26700		46.3	10100		4.19
Lead, Total	63	400	400	1000	3900		90.3		4.47	103		5.01	148		4.39	399		5.04	33.2		4.32	249		4.14	101		4.63	99.6		4.19
Magnesium, Total	NS	NS	NS	NS	NS		4030		8.95	967		10	11800		8.78	1040		10.1	1800		8.64	1840		8.29	12400		9.27	2890		8.38
Manganese, Total	1600	2000	2000	10000	10000		235		0.895	284		1	328		0.878	156		1.01	143		0.864	187		0.829	447		0.927	206		0.838
Mercury, Total	0.18	0.81	0.81	2.8	5.7		0.183		0.077	0.134		0.091	0.288		0.077	30.9		0.903	0.075	J	0.077	0.739		0.072	0.126		0.078	0.167		0.071
Nickel, Total	30	140	310	310	10000		9.31		2.24	17.7		2.5	14.7		2.2	10.7		2.52	6.86		2.16	10.4		2.07	29.4		2.32	7.96		2.1
Potassium, Total	NS	NS	NS	NS	NS		545		224	628		250	544		220	323		252	256		216	441		207	611		232	317		210
Selenium, Total	3.9	36	180	1500	6800		ND		1.79	ND		2	0.863	J	1.76	0.709	J	2.02	0.406	J	1.73	0.356	J	1.66	ND		1.85	0.247	J	1.68
Sodium, Total	NS	NS	NS	NS	NS		420		179	236		200	272		176	134	J	202	55.6	J	173	206		166	69.5	J	185	286		168
Vanadium, Total	NS	NS	NS	NS	NS		17.9		0.895	22.4		1	15.7		0.878	13.9		1.01	11.3		0.864	19.3		0.829	18.1		0.927	10.1		0.838
Zinc, Total	109	2200	10000	10000	10000		64.2		4.47	75.2		5.01	82.2		4.39	550		5.04	48.3		4.32	178		4.14	110		4.63	109		4.19

All values are shown in mg/kg or parts per million.

Shaded values exceed their respective SCOs

Only the compounds that were detected are listed.

ND = Not Detected above the laboratory method detection limit

NS = No Standard

J = Estimated Value

NY-UNRES= New York NYCRR Part 375 New York Unrestricted use Criteria Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

NY-RESR = New York NYCRR Part 375 Residential Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

NY-RESRR = New York NYCRR Part 375 Restricted-Residential Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

NY-RESC = New York NYCRR Part 375 Commercial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

NY-RESI = New York NYCRR Part 375 Industrial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

TABLE 2

SUMMARY OF GROUNDWATER RESULTS AND REGULATORY VALUES
PHASE II ENVIRONMENTAL SITE ASSESSMENT
SCHENECTADY ANCOR 40 SITE

	SAMPLE ID:	TRIP BLANK			MW-1			MW-3			MW-4			MW-6		
	LAB ID:	L2370570-01			L2370570-02			L2370570-03			L2370570-04			L2370570-05		
	COLLECTION DATE:	11/30/2023			11/30/2023			11/30/2023			11/30/2023			11/30/2023		
ANALYTE	**NY-AWQS**	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL
VOLATILE ORGANICS BY GC/MS																
n-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	5.9		2.5	ND		2.5
sec-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	4.8		2.5	ND		2.5
Isopropylbenzene	5	ND		2.5	ND		2.5	ND		2.5	3.8		2.5	ND		2.5
n-Propylbenzene	5	ND		2.5	ND		2.5	ND		2.5	12		2.5	ND		2.5
1,2,4-Trimethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	28		2.5	ND		2.5
SEMIVOLATILE ORGANICS BY GC/MS-SIM																
Acenaphthene	20 (GV)	-		-	0.02	J	0.1	ND		0.1	0.13		0.1	ND		0.1
Fluoranthene	50 (GV)	-		-	ND		0.1	0.06	J	0.1	0.2		0.1	ND		0.1
Naphthalene	10 (GV)	-		-	ND		0.1	ND		0.1	0.15		0.1	ND		0.1
Benzo(a)anthracene	0.002 (GV)	-		-	0.03	J	0.1	0.03	J	0.1	0.05	J	0.1	ND		0.1
Benzo(a)pyrene	0	-		-	ND		0.1	0.02	J	0.1	0.03	J	0.1	ND		0.1
Benzo(b)fluoranthene	0.002 (GV)	-		-	ND		0.1	0.04	J	0.1	0.04	J	0.1	ND		0.1
Benzo(k)fluoranthene	0.002 (GV)	-		-	ND		0.1	0.01	J	0.1	0.01	J	0.1	ND		0.1
Chrysene	0.002 (GV)	-		-	ND		0.1	0.02	J	0.1	0.03	J	0.1	ND		0.1
Acenaphthylene	NS	-		-	0.02	J	0.1	ND		0.1	0.05	J	0.1	ND		0.1
Anthracene	50 (GV)	-		-	ND		0.1	ND		0.1	0.06	J	0.1	ND		0.1
Benzo(ghi)perylene	NS	-		-	ND		0.1	0.02	J	0.1	0.02	J	0.1	ND		0.1
Fluorene	50 (GV)	-		-	0.02	J	0.1	ND		0.1	0.11		0.1	ND		0.1
Phenanthrene	50 (GV)	-		-	ND		0.1	0.04	J	0.1	0.34		0.1	ND		0.1
Indeno(1,2,3-cd)pyrene	0.002 (GV)	-		-	ND		0.1	0.02	J	0.1	0.02	J	0.1	ND		0.1
Pyrene	50 (GV)	-		-	ND		0.1	0.05	J	0.1	0.15		0.1	ND		0.1
POLYCHLORINATED BIPHENYLS BY GC (not detected above the laboratory method detection limit (analyzed for MW-1)																
TOTAL METALS																
Aluminum, Total	NS	-		-	3050		10	3860		10	892		10	192		10
Antimony, Total	3	-		-	ND		4	0.54	J	4	ND		4	ND		4
Arsenic, Total	25	-		-	4.27		0.5	5.26		0.5	5.03		0.5	0.53		0.5
Barium, Total	1000	-		-	116.6		0.5	100.2		0.5	59.76		0.5	31.95		0.5
Beryllium, Total	3 (GV)	-		-	0.36	J	0.5	0.43	J	0.5	ND		0.5	ND		0.5
Cadmium, Total	5	-		-	0.2		0.2	0.15	J	0.2	ND		0.2	ND		0.2
Calcium, Total	NS	-		-	207000		100	153000		100	138000		100	120000		100
Chromium, Total	50	-		-	6.42		1	6.26		1	1.29		1	1.04		1
Cobalt, Total	NS	-		-	5.67		0.5	4.54		0.5	1.71		0.5	0.74		0.5
Copper, Total	200	-		-	15.18		1	20.87		1	3.71		1	1.11		1
Iron, Total	300	-		-	9440		50	9530		50	4710		50	586		50
Lead, Total	25	-		-	18.29		1	51.99		1	20.67		1	0.98	J	1
Magnesium, Total	35000 (GV)	-		-	24300		70	22000		70	11700		70	18300		70
Manganese, Total	300	-		-	599.8		1	529.8		1	1852		1	96.74		1
Mercury, Total	0.7	-		-	ND		0.2	0.22		0.2	ND		0.2	ND		0.2
Nickel, Total	100	-		-	8.2		2	8.6		2	1.93	J	2	1.24	J	2
Potassium, Total	NS	-		-	3750		100	5490		100	5470		100	6340		100
Selenium, Total	10	-		-	14		5	9.53		5	ND		5	ND		5
Sodium, Total	20000	-		-	271000		1000	354000		1000	83400		100	263000		1000
Vanadium, Total	NS	-		-	9.18		5	10.23		5	2.57	J	5	ND		5
Zinc, Total	2000 (GV)	-		-	37.28		10	56.7		10	15.74		10	5.56	J	10

Notes:
Results are shown in ug/l (microgram per liter) or parts per billion.
Shaded values denote exceedance of groundwater standard or guidance value.
Only those compounds detected are shown.
GV = Guidance Value
NS = No Standard or Guidance Value
ND = Not detected above the laboratory method detection limit
J = Estimated value
*TOGS 1.1.1 Ambient Water Quality Standards & Guidance Values & Groundwater Effluent Limitations, NYSDEC, June 1998 & Addendums April 2000 & June 2004

TABLE 3

SUMMARY OF SOIL SAMPLING RESULTS AND REGULATORY VALUES
SVOCS/METALS
SUPPLEMENTAL SUBSURFACE ASSESSMENT
SCHENECTADY 40 ANCHOR SITE

					SAMPLE ID:	GP-7_5-7.5			GP-8_5-7.5			GP-9_5-7.5			GP-10_2.5-5			GP-11 (2.5-5')		
					LAB ID:	L2427928-01			L2427928-02			L2427928-03			L2427928-04			L2427928-05		
					COLLECTION DATE:	5/20/2024			5/20/2024			5/20/2024			5/20/2024			5/20/2024		
	NY-UNRES	**NY-RESR**	**NY-RESRR**	**NY-RESC**	**NY-RESI**															
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL
SEMIVOLATILE ORGANICS BY GC/MS																				
Acenaphthene	20	100	100	500	1000	ND		0.14	ND		0.15	0.1	J	0.15	0.019	J	0.14	0.1	J	0.14
Acenaphthylene	100	100	100	500	1000	ND		0.14	0.076	J	0.15	0.078	J	0.15	0.035	J	0.14	ND		0.14
Anthracene	100	100	100	500	1000	ND		0.1	0.045	J	0.11	0.21		0.11	0.075	J	0.11	0.26		0.1
Benzo(a)anthracene	1	1	1	5.6	11	0.038	J	0.1	0.076	J	0.11	0.83		0.11	0.25		0.11	0.69		0.1
Benzo(a)pyrene	1	1	1	1	1.1	ND		0.14	0.1	J	0.15	0.85		0.15	0.24		0.14	0.68		0.14
Benzo(b)fluoranthene	1	1	1	5.6	11	0.053	J	0.1	0.16		0.11	1.1		0.11	0.29		0.11	0.81		0.1
Benzo(ghi)perylene	100	100	100	500	1000	0.027	J	0.14	0.085	J	0.15	0.62		0.15	0.16		0.14	0.48		0.14
Benzo(k)fluoranthene	0.8	1	3.9	56	110	ND		0.1	0.06	J	0.11	0.37		0.11	0.096	J	0.11	0.23		0.1
Chrysene	1	1	3.9	56	110	0.061	J	0.1	0.14		0.11	0.89		0.11	0.25		0.11	0.75		0.1
Dibenzo(a,h)anthracene	0.33	0.33	0.33	0.56	1.1	ND		0.1	0.023	J	0.11	0.13		0.11	0.034	J	0.11	0.097	J	0.1
Fluoranthene	100	100	100	500	1000	0.18		0.1	0.33		0.11	1.7		0.11	0.59		0.11	1.3		0.1
Fluorene	30	100	100	500	1000	ND		0.17	0.024	J	0.19	0.07	J	0.18	0.028	J	0.18	0.075	J	0.18
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	5.6	11	ND		0.14	0.079	J	0.15	0.57		0.15	0.14		0.14	0.4		0.14
Phenanthrene	100	100	100	500	1000	0.11		0.1	0.23		0.11	0.87		0.11	0.36		0.11	0.78		0.1
Pyrene	100	100	100	500	1000	0.17		0.1	0.26		0.11	1.5		0.11	0.53		0.11	1.4		0.1
TOTAL METALS																				
Aluminum, Total	NS	NS	NS	NS	NS	6270		8.2	3340		17.5	5650		8.81	4050		8.47	4770		8.39
Antimony, Total	NS	NS	NS	NS	NS	ND		4.1	ND		8.73	1.6	J	4.4	0.805	J	4.24	0.624	J	4.19
Arsenic, Total	13	16	16	16	16	3.33		0.82	3.1		1.75	8.3		0.881	4.41		0.847	4.61		0.839
Barium, Total	350	350	400	400	10000	24.5		0.82	52.8		1.75	114		0.881	49.2		0.847	40.5		0.839
Beryllium, Total	7.2	14	72	590	2700	0.273	J	0.41	0.198	J	0.873	0.334	J	0.44	0.229	J	0.424	0.302	J	0.419
Cadmium, Total	2.5	2.5	4.3	9.3	60	0.19	J	0.82	0.195	J	1.75	0.899		0.881	0.404	J	0.847	0.25	J	0.839
Calcium, Total	NS	NS	NS	NS	NS	37000		8.2	103000		17.5	26800		8.81	13200		8.47	31700		8.39
Chromium, Total	NS	NS	NS	NS	NS	9.85		0.82	5.52		1.75	36.9		0.881	11.3		0.847	7.14		0.839
Cobalt, Total	NS	NS	NS	NS	NS	4.48		1.64	3.4	J	3.49	4.83		1.76	2.74		1.69	3.7		1.68
Copper, Total	50	270	270	270	10000	13.9		0.82	13.5		1.75	32.3		0.881	43.1		0.847	24		0.839
Iron, Total	NS	NS	NS	NS	NS	15300		4.1	7940		8.73	17400		4.4	10100		4.24	12100		4.19
Lead, Total	63	400	400	1000	3900	21.6		4.1	104		8.73	1130		4.4	242		4.24	215		4.19
Magnesium, Total	NS	NS	NS	NS	NS	6540		8.2	6240		17.5	6440		8.81	3120		8.47	10700		8.39
Manganese, Total	1600	2000	2000	10000	10000	376		0.82	242		1.75	297		0.881	144		0.847	232		0.839
Mercury, Total	0.18	0.81	0.81	2.8	5.7	0.138		0.068	0.172		0.073	30.5		1.42	0.23		0.071	0.423		0.07
Nickel, Total	30	140	310	310	10000	11.3		2.05	7.42		4.37	11.6		2.2	6.19		2.12	8.71		2.1
Potassium, Total	NS	NS	NS	NS	NS	514		205	294	J	437	592		220	349		212	412		210
Silver, Total	2	36	180	1500	6800	ND		0.41	ND		0.873	ND		0.44	ND		0.424	ND		0.419
Sodium, Total	NS	NS	NS	NS	NS	303		164	87.3	J	349	294		176	290		169	103	J	168
Vanadium, Total	NS	NS	NS	NS	NS	14.5		0.82	9.19		1.75	17.1		0.881	12.3		0.847	14.2		0.839
Zinc, Total	109	2200	10000	10000	10000	49.8		4.1	79.9		8.73	575		4.4	241		4.24	81.9		4.19

Values are shown in mg/kg or parts per million.
Shaded values exceed their respective SCOs
Only the compounds that were detected are listed.
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NS = No Standard
J = Estimated Value
E = Concentration of analyte exceeds range of the calibration curve and/or linear range of the instrument.
NY-UNRES= New York NYCRR Part 375 New York Unrestricted use Criteria Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.
NY-RESR = New York NYCRR Part 375 Residential Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.
NY-RESRR = New York NYCRR Part 375 Restricted-Residential Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.
NY-RESC = New York NYCRR Part 375 Commercial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.
NY-RESI = New York NYCRR Part 375 Industrial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

TABLE 3

SUMMARY OF SOIL SAMPLING RESULTS AND REGULATORY VALUES
SVOCS/METALS
SUPPLEMENTAL SUBSURFACE ASSESSMENT
SCHENECTADY 40 ANCHOR SITE

					SAMPLE ID:	GP-12 (5-7.5')			GP-13 (5-7.5')			GP-14 (5-6')			GP-14 (5-6')			GP-15 (5-7')		
					LAB ID:	L2427928-06			L2427928-07			L2427928-08			L2427928-08 R1			L2427928-09		
					COLLECTION DATE:	5/20/2024			5/20/2024			5/20/2024			5/20/2024			5/20/2024		
	NY-UNRES	**NY-RESR**	**NY-RESRR**	**NY-RESC**	**NY-RESI**															
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL
SEMIVOLATILE ORGANICS BY GC/MS																				
Acenaphthene	20	100	100	500	1000	ND		0.15	ND		0.16	11		1.6	-		-	0.026	J	0.14
Acenaphthylene	100	100	100	500	1000	ND		0.15	ND		0.16	11		1.6	-		-	ND		0.14
Anthracene	100	100	100	500	1000	ND		0.11	ND		0.12	23		1.2	-		-	0.074	J	0.11
Benzo(a)anthracene	1	1	1	5.6	11	0.031	J	0.11	ND		0.12	47		1.2	-		-	0.18		0.11
Benzo(a)pyrene	1	1	1	1	1.1	ND		0.15	ND		0.16	44		1.6	-		-	0.18		0.14
Benzo(b)fluoranthene	1	1	1	5.6	11	0.042	J	0.11	ND		0.12	54		1.2	-		-	0.23		0.11
Benzo(ghi)perylene	100	100	100	500	1000	0.024	J	0.15	ND		0.16	26		1.6	-		-	0.11	J	0.14
Benzo(k)fluoranthene	0.8	1	3.9	56	110	ND		0.11	ND		0.12	18		1.2	-		-	0.074	J	0.11
Chrysene	1	1	3.9	56	110	0.053	J	0.11	ND		0.12	39		1.2	-		-	0.18		0.11
Dibenzo(a,h)anthracene	0.33	0.33	0.33	0.56	1.1	ND		0.11	ND		0.12	6.6		1.2	-		-	0.028	J	0.11
Fluoranthene	100	100	100	500	1000	0.093	J	0.11	ND		0.12	90	E	1.2	170		5.9	0.4		0.11
Fluorene	30	100	100	500	1000	ND		0.18	ND		0.2	17		2	-		-	0.027	J	0.18
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	5.6	11	ND		0.15	ND		0.16	27		1.6	-		-	0.1	J	0.14
Phenanthrene	100	100	100	500	1000	0.057	J	0.11	ND		0.12	80	E	1.2	140		5.9	0.23		0.11
Pyrene	100	100	100	500	1000	0.093	J	0.11	ND		0.12	71		1.2	-		-	0.33		0.11
TOTAL METALS																				
Aluminum, Total	NS	NS	NS	NS	NS	3730		8.55	5350		9.56	6220		9.11	-		-	6830		8.64
Antimony, Total	NS	NS	NS	NS	NS	ND		4.28	0.405	J	4.78	1.04	J	4.56	-		-	ND		4.32
Arsenic, Total	13	16	16	16	16	2.67		0.855	7.55		0.956	4.33		0.911	-		-	4.05		0.864
Barium, Total	350	350	400	400	10000	13.6		0.855	152		0.956	282		0.911	-		-	58.7		0.864
Beryllium, Total	7.2	14	72	590	2700	0.222	J	0.428	0.259	J	0.478	0.338	J	0.456	-		-	0.301	J	0.432
Cadmium, Total	2.5	2.5	4.3	9.3	60	0.129	J	0.855	1.08		0.956	0.242	J	0.911	-		-	0.156	J	0.864
Calcium, Total	NS	NS	NS	NS	NS	2910		8.55	79200		9.56	87000		9.11	-		-	61200		8.64
Chromium, Total	NS	NS	NS	NS	NS	5.37		0.855	10.8		0.956	12.6		0.911	-		-	12.9		0.864
Cobalt, Total	NS	NS	NS	NS	NS	3.15		1.71	3.41		1.91	3.72		1.82	-		-	3.17		1.73
Copper, Total	50	270	270	270	10000	8.26		0.855	11.2		0.956	16.9		0.911	-		-	11.9		0.864
Iron, Total	NS	NS	NS	NS	NS	10100		4.28	11700		4.78	11400		4.56	-		-	11000		4.32
Lead, Total	63	400	400	1000	3900	8.71		4.28	334		4.78	39.4		4.56	-		-	40.2		4.32
Magnesium, Total	NS	NS	NS	NS	NS	2240		8.55	5310		9.56	12900		9.11	-		-	8810		8.64
Manganese, Total	1600	2000	2000	10000	10000	206		0.855	216		0.956	315		0.911	-		-	247		0.864
Mercury, Total	0.18	0.81	0.81	2.8	5.7	0.06	J	0.072	0.265		0.078	0.09		0.076	-		-	0.095		0.069
Nickel, Total	30	140	310	310	10000	6.26		2.14	6.95		2.39	11.1		2.28	-		-	7.98		2.16
Potassium, Total	NS	NS	NS	NS	NS	250		214	635		239	588		228	-		-	508		216
Silver, Total	2	36	180	1500	6800	ND		0.428	ND		0.478	0.273	J	0.456	-		-	ND		0.432
Sodium, Total	NS	NS	NS	NS	NS	51.6	J	171	475		191	429		182	-		-	244		173
Vanadium, Total	NS	NS	NS	NS	NS	10.4		0.855	18.7		0.956	16.4		0.911	-		-	12.9		0.864
Zinc, Total	109	2200	10000	10000	10000	41.4		4.28	726		4.78	204		4.56	-		-	56.4		4.32

Values are shown in mg/kg or parts per million.
Shaded values exceed their respective SCOs
Only the compounds that were detected are listed.
ND = Not Detected above the laboratory method detection limit
NS = No Standard
J = Estimated Value
E = Concentration of analyte exceeds range of the calibration curve and/or linear range of the instrument.
NY-UNRES= New York NYCRR Part 375 New York Unrestricted use Criteria Criteria per 6 NYCRR Part 37
NY-RESR = New York NYCRR Part 375 Residential Criteria, New York Restricted use Criteria per 6 NYCRI
NY-RESRR = New York NYCRR Part 375 Restricted-Residential Criteria, New York Restricted use Criteria
NY-RESC = New York NYCRR Part 375 Commercial Criteria, New York Restricted use Criteria per 6 NYCF
NY-RESI = New York NYCRR Part 375 Industrial Criteria, New York Restricted use Criteria per 6 NYCRR F

TABLE 3

SUMMARY OF SOIL SAMPLING RESULTS AND REGULATORY VALUES
SVOCS/METALS
SUPPLEMENTAL SUBSURFACE ASSESSMENT
SCHENECTADY 40 ANCHOR SITE

					SAMPLE ID:	GP-16 (2.5-5')			TP-1			TP-2			TP-3		
					LAB ID:	L2427928-10			L2450528-01			L2450528-02			L2450528-03		
					COLLECTION DATE:	5/20/2024			9/5/2024			9/5/2024			9/5/2024		
	NY-UNRES	**NY-RESR**	**NY-RESRR**	**NY-RESC**	**NY-RESI**												
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL
SEMIVOLATILE ORGANICS BY GC/MS																	
Acenaphthene	20	100	100	500	1000	ND		0.17	ND		0.18	0.44	J	0.86	0.12	J	0.17
Acenaphthylene	100	100	100	500	1000	ND		0.17	ND		0.18	4.8		0.86	ND		0.17
Anthracene	100	100	100	500	1000	ND		0.12	ND		0.13	4.2		0.64	0.12		0.12
Benzo(a)anthracene	1	1	1	5.6	11	0.075	J	0.12	0.12	J	0.13	10		0.64	0.34		0.12
Benzo(a)pyrene	1	1	1	1	1.1	0.073	J	0.17	0.12	J	0.18	9.4		0.86	0.2		0.17
Benzo(b)fluoranthene	1	1	1	5.6	11	0.091	J	0.12	0.17		0.13	16		0.64	0.3		0.12
Benzo(ghi)perylene	100	100	100	500	1000	0.044	J	0.17	0.091	J	0.18	7		0.86	0.1	J	0.17
Benzo(k)fluoranthene	0.8	1	3.9	56	110	ND		0.12	0.048	J	0.13	3.2		0.64	0.081	J	0.12
Chrysene	1	1	3.9	56	110	0.068	J	0.12	0.13		0.13	10		0.64	0.34		0.12
Dibenzo(a,h)anthracene	0.33	0.33	0.33	0.56	1.1	ND		0.12	0.026	J	0.13	1.9		0.64	0.037	J	0.12
Fluoranthene	100	100	100	500	1000	0.14		0.12	0.22		0.13	24		0.64	0.76		0.12
Fluorene	30	100	100	500	1000	ND		0.21	ND		0.22	1.4		1.1	0.38		0.21
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	5.6	11	0.042	J	0.17	0.073	J	0.18	5.7		0.86	0.077	J	0.17
Phenanthrene	100	100	100	500	1000	0.027	J	0.12	0.1	J	0.13	21		0.64	0.54		0.12
Pyrene	100	100	100	500	1000	0.12		0.12	0.18		0.13	18		0.64	0.62		0.12
TOTAL METALS																	
Aluminum, Total	NS	NS	NS	NS	NS	4060		9.63	2790		10.2	3870		10.2	4300		9.78
Antimony, Total	NS	NS	NS	NS	NS	0.57	J	4.82	ND		5.12	ND		5.09	ND		4.89
Arsenic, Total	13	16	16	16	16	6.13		0.963	2.56		1.02	3.49		1.02	2.08		0.978
Barium, Total	350	350	400	400	10000	228		0.963	13.1		1.02	72.8		1.02	19.1		0.978
Beryllium, Total	7.2	14	72	590	2700	0.262	J	0.482	0.179	J	0.512	0.235	J	0.509	0.274	J	0.489
Cadmium, Total	2.5	2.5	4.3	9.3	60	0.816	J	0.963	ND		1.02	ND		1.02	ND		0.978
Calcium, Total	NS	NS	NS	NS	NS	56400		9.63	2160		10.2	7510		10.2	8550		9.78
Chromium, Total	NS	NS	NS	NS	NS	23		0.963	5.11		1.02	9.06		1.02	4.89		0.978
Cobalt, Total	NS	NS	NS	NS	NS	3.47		1.93	3.28		2.05	3.02		2.04	3.43		1.96
Copper, Total	50	270	270	270	10000	54.4		0.963	7.7		1.02	19.3		1.02	11.4		0.978
Iron, Total	NS	NS	NS	NS	NS	11000		4.82	9870		5.12	9770		5.09	10200		4.89
Lead, Total	63	400	400	1000	3900	689		4.82	3.8	J	5.12	71.9		5.09	9.1		4.89
Magnesium, Total	NS	NS	NS	NS	NS	2350		9.63	1160		10.2	1690		10.2	1570		9.78
Manganese, Total	1600	2000	2000	10000	10000	216		0.963	120		1.02	180		1.02	331		0.978
Mercury, Total	0.18	0.81	0.81	2.8	5.7	0.53		0.079	ND		0.085	0.358		0.084	ND		0.081
Nickel, Total	30	140	310	310	10000	9.44		2.41	6.79		2.56	6.75		2.55	7.99		2.45
Potassium, Total	NS	NS	NS	NS	NS	358		241	290		256	292		255	339		245
Silver, Total	2	36	180	1500	6800	ND		0.482	ND		0.512	ND		0.509	ND		0.489
Sodium, Total	NS	NS	NS	NS	NS	114	J	193	120	J	205	119	J	204	62.8	J	196
Vanadium, Total	NS	NS	NS	NS	NS	11		0.963	11.2		1.02	10.9		1.02	9.78		0.978
Zinc, Total	109	2200	10000	10000	10000	603		4.82	23.3		5.12	115		5.09	25.9		4.89

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NS = No Standard
J = Estimated Value
E = Concentration of analyte exceeds range of the calibration curve and/or linear range of the instrument.
NY-UNRES= New York NYCRR Part 375 New York Unrestricted use Criteria Criteria per 6 NYCRR Part 37
NY-RESR = New York NYCRR Part 375 Residential Criteria, New York Restricted use Criteria per 6 NYCRI
NY-RESRR = New York NYCRR Part 375 Restricted-Residential Criteria, New York Restricted use Criteria
NY-RESC = New York NYCRR Part 375 Commercial Criteria, New York Restricted use Criteria per 6 NYCF
NY-RESI = New York NYCRR Part 375 Industrial Criteria, New York Restricted use Criteria per 6 NYCRR F

TABLE 4

SUMMARY OF SOIL SAMPLING RESULTS AND REGULATORY VALUES
VOCS
SUPPLEMENTAL SUBSURFACE ASSESSMENT
SCHENECTADY 40 ANCHOR SITE

					SAMPLE ID:	TP-1			TP-2			TP-3		
					LAB ID:	L2450528-01			L2450528-02			L2450528-03		
					COLLECTION DATE:	9/5/2024			9/5/2024			9/5/2024		
	NY-UNRES	**NY-RESR**	**NY-RESRR**	**NY-RESC**	**NY-RESI**									
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL
VOLATILE ORGANICS BY EPA 5035														
1,3,5-Trimethylbenzene	8.4	47	52	190	380	ND		0.0026	ND		0.0023	0.0007	J	0.0021
2-Butanone	0.12	100	100	500	1000	ND		0.013	ND		0.011	0.013		0.01
Acetone	0.05	100	100	500	1000	0.017		0.013	0.015		0.011	0.085		0.01
cis-1,2-Dichloroethene	0.25	59	100	500	1000	ND		0.0013	ND		0.0011	0.00027	J	0.001
Isopropylbenzene	NA	NA	NA	NA	NA	ND		0.0013	ND		0.0011	0.0087		0.001
Methyl Acetate	NA	NA	NA	NA	NA	ND		0.0053	ND		0.0046	0.0017	J	0.0042
Methyl cyclohexane	NA	NA	NA	NA	NA	ND		0.0053	0.00074	J	0.0046	0.0038	J	0.0042
n-Butylbenzene	12	100	100	500	1000	ND		0.0013	ND		0.0011	0.086		0.001
n-Propylbenzene	3.9	100	100	500	1000	ND		0.0013	ND		0.0011	0.011		0.001
Naphthalene	12	100	100	500	1000	ND		0.0053	0.0014	J	0.0046	0.0042		0.0042
o-Xylene	NA	NA	NA	NA	NA	ND		0.0013	ND		0.0011	0.00061	J	0.001
p-Isopropyltoluene	NA	NA	NA	NA	NA	ND		0.0013	0.00023	J	0.0011	ND		0.001
sec-Butylbenzene	11	100	100	500	1000	ND		0.0013	ND		0.0011	0.11		0.001
tert-Butylbenzene	5.9	100	100	500	1000	ND		0.0026	ND		0.0023	0.0062		0.0021
Trichlorofluoromethane	NA	NA	NA	NA	NA	ND		0.0053	0.0024	J	0.0046	ND		0.0042

Values are shown in mg/kg or parts per million.

Shaded values exceed their respective SCOs

Only the compounds that were detected are listed.

ND = Not Detected above the laboratory method detection limit

NS = No Standard

J = Estimated Value

NY-UNRES= New York NYCRR Part 375 New York Unrestricted use Criteria Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2

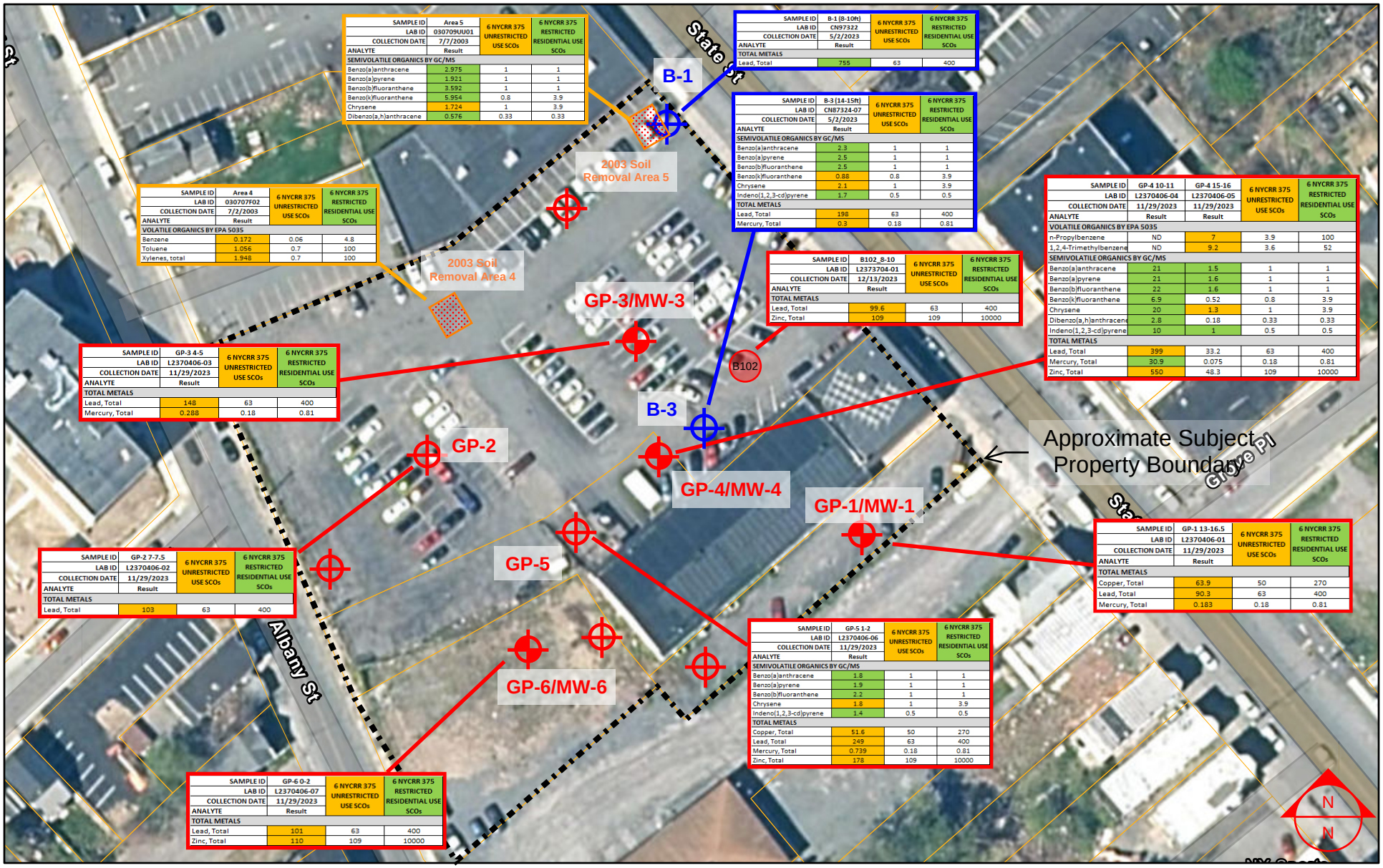
NY-RESR = New York NYCRR Part 375 Residential Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2

NY-RESRR = New York NYCRR Part 375 Restricted-Residential Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

NY-RESC = New York NYCRR Part 375 Commercial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

NY-RESI = New York NYCRR Part 375 Industrial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

FIGURE 1
ANALYTES IN SOILS
EXCEEDING UNRESTRICTED AND RESTRICTED-RESIDENTIAL USE SOIL CLEANUP OBJECTIVES



SAMPLE ID	Area 5	6 NYCRR 375 UNRESTRICTED USE SCOs	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	030709UU01		
COLLECTION DATE	7/7/2003		
ANALYTE	Result		
SEMIVOLATILE ORGANICS BY GC/MS			
Benzo(a)anthracene	2.975	1	1
Benzo(a)pyrene	1.921	1	1
Benzo(b)fluoranthene	3.592	1	1
Benzo(k)fluoranthene	5.954	0.8	3.9
Chrysene	1.724	1	3.9
Dibenzo(a,h)anthracene	0.576	0.33	0.33

SAMPLE ID	B-1 (8-10ft)	6 NYCRR 375 UNRESTRICTED USE SCOs	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	CN97322		
COLLECTION DATE	5/2/2023		
ANALYTE	Result		
TOTAL METALS			
Lead, Total	755	63	400

SAMPLE ID	B-3 (14-15ft)	6 NYCRR 375 UNRESTRICTED USE SCOs	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	CN87324-07		
COLLECTION DATE	5/2/2023		
ANALYTE	Result		
SEMIVOLATILE ORGANICS BY GC/MS			
Benzo(a)anthracene	2.3	1	1
Benzo(a)pyrene	2.5	1	1
Benzo(b)fluoranthene	2.5	1	1
Benzo(k)fluoranthene	0.88	0.8	3.9
Chrysene	2.1	1	3.9
Indeno(1,2,3-cd)pyrene	1.7	0.5	0.5
TOTAL METALS			
Lead, Total	198	63	400
Mercury, Total	0.3	0.18	0.81

SAMPLE ID	Area 4	6 NYCRR 375 UNRESTRICTED USE SCOs	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	030707F02		
COLLECTION DATE	7/2/2003		
ANALYTE	Result		
VOLATILE ORGANICS BY EPA 5035			
Benzene	0.172	0.06	4.8
Toluene	1.056	0.7	100
Xylenes, total	1.948	0.7	100

SAMPLE ID	B102_8-10	6 NYCRR 375 UNRESTRICTED USE SCOs	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2373704-01		
COLLECTION DATE	12/13/2023		
ANALYTE	Result		
TOTAL METALS			
Lead, Total	99.6	63	400
Zinc, Total	109	109	10000

SAMPLE ID	GP-4 10-11	GP-4 15-16	6 NYCRR 375 UNRESTRICTED USE SCOs	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2370406-04	L2370406-05		
COLLECTION DATE	11/29/2023	11/29/2023		
ANALYTE	Result	Result		
VOLATILE ORGANICS BY EPA 5035				
n-Propylbenzene	ND	7	3.9	100
1,2,4-Trimethylbenzene	ND	9.2	3.6	52
SEMIVOLATILE ORGANICS BY GC/MS				
Benzo(a)anthracene	21	1.5	1	1
Benzo(a)pyrene	21	1.6	1	1
Benzo(b)fluoranthene	22	1.6	1	1
Benzo(k)fluoranthene	6.9	0.52	0.8	3.9
Chrysene	20	1.3	1	3.9
Dibenzo(a,h)anthracene	2.8	0.18	0.33	0.33
Indeno(1,2,3-cd)pyrene	10	1	0.5	0.5
TOTAL METALS				
Lead, Total	399	33.2	63	400
Mercury, Total	30.9	0.075	0.18	0.81
Zinc, Total	550	48.3	109	10000

SAMPLE ID	GP-3 4-5	6 NYCRR 375 UNRESTRICTED USE SCOs	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2370406-03		
COLLECTION DATE	11/29/2023		
ANALYTE	Result		
TOTAL METALS			
Lead, Total	148	63	400
Mercury, Total	0.288	0.18	0.81

SAMPLE ID	GP-1 13-16.5	6 NYCRR 375 UNRESTRICTED USE SCOs	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2370406-01		
COLLECTION DATE	11/29/2023		
ANALYTE	Result		
TOTAL METALS			
Copper, Total	63.9	50	270
Lead, Total	90.3	63	400
Mercury, Total	0.183	0.18	0.81

SAMPLE ID	GP-2 7-7.5	6 NYCRR 375 UNRESTRICTED USE SCOs	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2370406-02		
COLLECTION DATE	11/29/2023		
ANALYTE	Result		
TOTAL METALS			
Lead, Total	103	63	400

SAMPLE ID	GP-5 1-2	6 NYCRR 375 UNRESTRICTED USE SCOs	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2370406-06		
COLLECTION DATE	11/29/2023		
ANALYTE	Result		
SEMIVOLATILE ORGANICS BY GC/MS			
Benzo(a)anthracene	1.8	1	1
Benzo(a)pyrene	1.9	1	1
Benzo(b)fluoranthene	2.2	1	1
Chrysene	1.8	1	3.9
Indeno(1,2,3-cd)pyrene	1.4	0.5	0.5
TOTAL METALS			
Copper, Total	51.6	50	270
Lead, Total	249	63	400
Mercury, Total	0.739	0.18	0.81
Zinc, Total	178	109	10000

SAMPLE ID	GP-6 0-2	6 NYCRR 375 UNRESTRICTED USE SCOs	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2370406-07		
COLLECTION DATE	11/29/2023		
ANALYTE	Result		
TOTAL METALS			
Lead, Total	101	63	400
Zinc, Total	110	109	10000

LEGEND

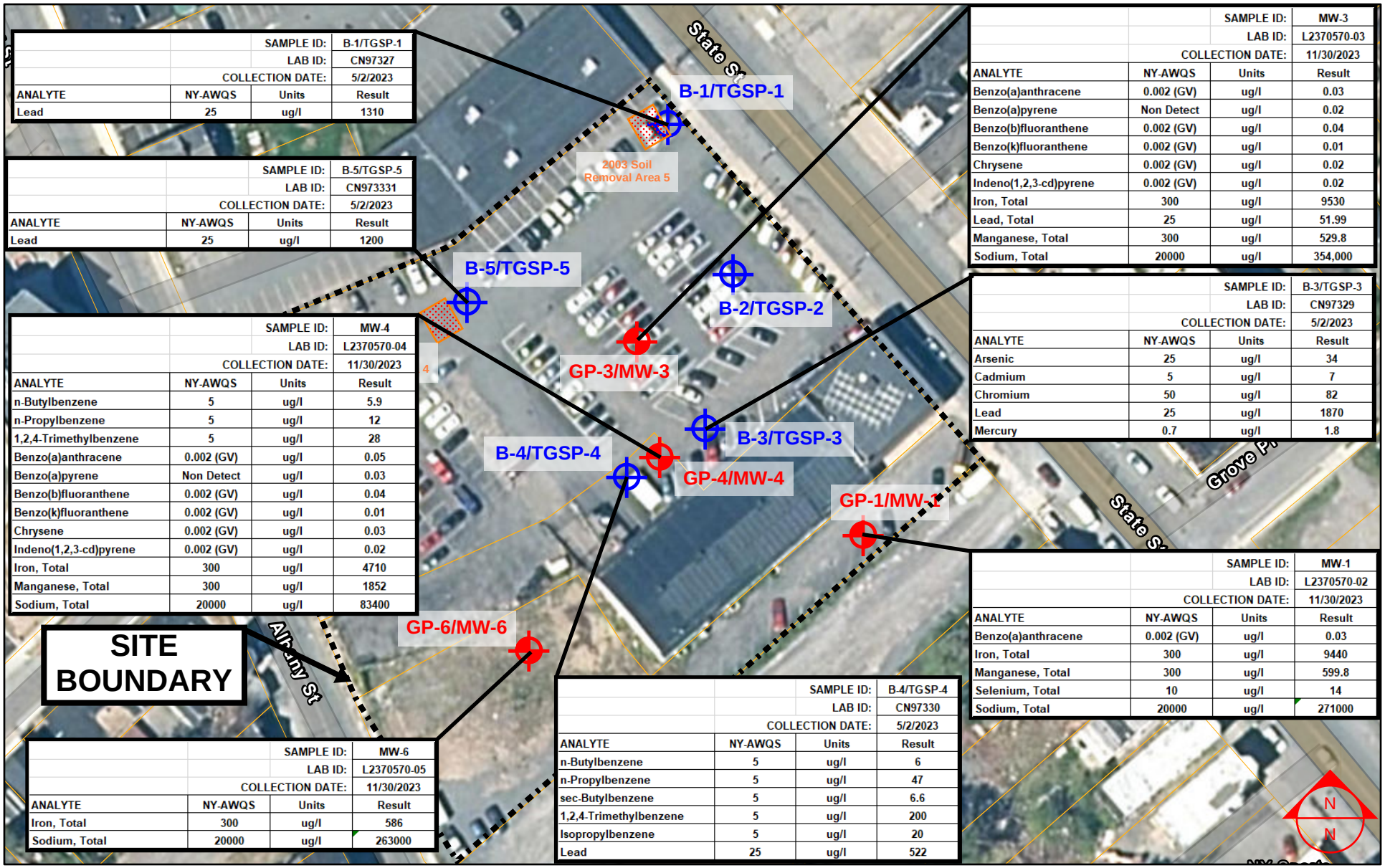
- GP-1/MW-1 — Approximate Location and ID of Geoprobe Soil Boring Location Converted to a Monitoring Well
- GP-2 — Approximate Location and ID of Geoprobe Soil Boring
- B102 — Approximate Location and ID of Geotechnical Soil Boring (only the boring sampled for the Phase II ESA Shown)
- B-3 — Approximate Location and ID of Soil Boring Advanced as a function of LaBella's Phase II ESA
- Approximate Location of 2003 Soil Removal Area

1:1,317

0 0.01 0.01 0.03 mi

0 0.01 0.03 0.05 km

FIGURE 2
ANALYTES IN GROUNDWATER
EXCEEDING NYS AMBIENT WATER QUALITY STANDARDS & GUIDANCE VALUES



		SAMPLE ID:	B-1/TGSP-1
		LAB ID:	CN97327
		COLLECTION DATE:	5/2/2023
ANALYTE	NY-AWQS	Units	Result
Lead	25	ug/l	1310

		SAMPLE ID:	B-5/TGSP-5
		LAB ID:	CN973331
		COLLECTION DATE:	5/2/2023
ANALYTE	NY-AWQS	Units	Result
Lead	25	ug/l	1200

		SAMPLE ID:	MW-4
		LAB ID:	L2370570-04
		COLLECTION DATE:	11/30/2023
ANALYTE	NY-AWQS	Units	Result
n-Butylbenzene	5	ug/l	5.9
n-Propylbenzene	5	ug/l	12
1,2,4-Trimethylbenzene	5	ug/l	28
Benzo(a)anthracene	0.002 (GV)	ug/l	0.05
Benzo(a)pyrene	Non Detect	ug/l	0.03
Benzo(b)fluoranthene	0.002 (GV)	ug/l	0.04
Benzo(k)fluoranthene	0.002 (GV)	ug/l	0.01
Chrysene	0.002 (GV)	ug/l	0.03
Indeno(1,2,3-cd)pyrene	0.002 (GV)	ug/l	0.02
Iron, Total	300	ug/l	4710
Manganese, Total	300	ug/l	1852
Sodium, Total	20000	ug/l	83400

		SAMPLE ID:	MW-6
		LAB ID:	L2370570-05
		COLLECTION DATE:	11/30/2023
ANALYTE	NY-AWQS	Units	Result
Iron, Total	300	ug/l	586
Sodium, Total	20000	ug/l	263000

		SAMPLE ID:	B-4/TGSP-4
		LAB ID:	CN97330
		COLLECTION DATE:	5/2/2023
ANALYTE	NY-AWQS	Units	Result
n-Butylbenzene	5	ug/l	6
n-Propylbenzene	5	ug/l	47
sec-Butylbenzene	5	ug/l	6.6
1,2,4-Trimethylbenzene	5	ug/l	200
Isopropylbenzene	5	ug/l	20
Lead	25	ug/l	522

		SAMPLE ID:	MW-3
		LAB ID:	L2370570-03
		COLLECTION DATE:	11/30/2023
ANALYTE	NY-AWQS	Units	Result
Benzo(a)anthracene	0.002 (GV)	ug/l	0.03
Benzo(a)pyrene	Non Detect	ug/l	0.02
Benzo(b)fluoranthene	0.002 (GV)	ug/l	0.04
Benzo(k)fluoranthene	0.002 (GV)	ug/l	0.01
Chrysene	0.002 (GV)	ug/l	0.02
Indeno(1,2,3-cd)pyrene	0.002 (GV)	ug/l	0.02
Iron, Total	300	ug/l	9530
Lead, Total	25	ug/l	51.99
Manganese, Total	300	ug/l	529.8
Sodium, Total	20000	ug/l	354,000

		SAMPLE ID:	B-3/TGSP-3
		LAB ID:	CN97329
		COLLECTION DATE:	5/2/2023
ANALYTE	NY-AWQS	Units	Result
Arsenic	25	ug/l	34
Cadmium	5	ug/l	7
Chromium	50	ug/l	82
Lead	25	ug/l	1870
Mercury	0.7	ug/l	1.8

		SAMPLE ID:	MW-1
		LAB ID:	L2370570-02
		COLLECTION DATE:	11/30/2023
ANALYTE	NY-AWQS	Units	Result
Benzo(a)anthracene	0.002 (GV)	ug/l	0.03
Iron, Total	300	ug/l	9440
Manganese, Total	300	ug/l	599.8
Selenium, Total	10	ug/l	14
Sodium, Total	20000	ug/l	271000

LEGEND

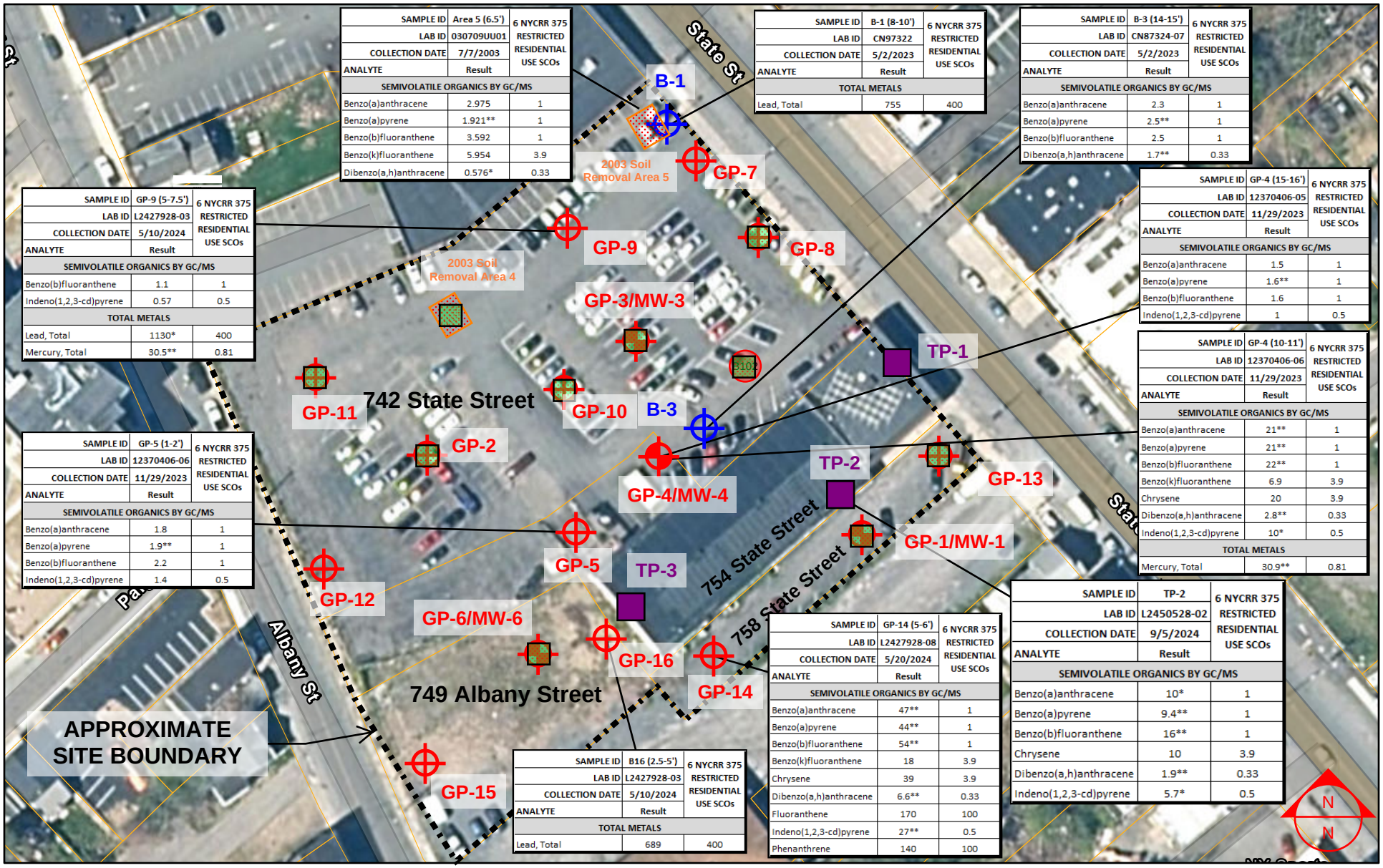
- GP-1/MW-1 — Approximate Location and ID of Geoprobe Soil Boring Location Converted to a Monitoring Well
- GP-2 — Approximate Location and ID of Geoprobe Soil Boring
- B102 — Approximate Location and ID of Geotechnical Soil Boring (only the boring sampled for the Phase II ESA Shown)
- B-3/TGSP-3 — Approximate Location and ID of Soil Boring Advanced as a function of LaBella's Phase II ESA
- Approximate Location of 2003 Soil Removal Area

1:1,317

0 0.01 0.01 0.03 mi

0 0.01 0.03 0.05 km

FIGURE 3
ANALYTES IN SOILS
EXCEEDING RESTRICTED-RESIDENTIAL USE SOIL CLEANUP OBJECTIVES



SAMPLE ID	Area 5 (6.5')	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	030709UU01	
COLLECTION DATE	7/7/2003	
ANALYTE	Result	
SEMIVOLATILE ORGANICS BY GC/MS		
Benzo(a)anthracene	2.975	1
Benzo(a)pyrene	1.921**	1
Benzo(b)fluoranthene	3.592	1
Benzo(k)fluoranthene	5.954	3.9
Dibenzo(a,h)anthracene	0.576*	0.33

SAMPLE ID	B-1 (8-10')	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	CN97322	
COLLECTION DATE	5/2/2023	
ANALYTE	Result	
TOTAL METALS		
Lead, Total	755	400

SAMPLE ID	B-3 (14-15')	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	CN87324-07	
COLLECTION DATE	5/2/2023	
ANALYTE	Result	
SEMIVOLATILE ORGANICS BY GC/MS		
Benzo(a)anthracene	2.3	1
Benzo(a)pyrene	2.5**	1
Benzo(b)fluoranthene	2.5	1
Dibenzo(a,h)anthracene	1.7**	0.33

SAMPLE ID	GP-9 (5-7.5')	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2427928-03	
COLLECTION DATE	5/10/2024	
ANALYTE	Result	
SEMIVOLATILE ORGANICS BY GC/MS		
Benzo(b)fluoranthene	1.1	1
Indeno(1,2,3-cd)pyrene	0.57	0.5
TOTAL METALS		
Lead, Total	1130*	400
Mercury, Total	30.5**	0.81

SAMPLE ID	GP-4 (15-16')	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	12370406-05	
COLLECTION DATE	11/29/2023	
ANALYTE	Result	
SEMIVOLATILE ORGANICS BY GC/MS		
Benzo(a)anthracene	1.5	1
Benzo(a)pyrene	1.6**	1
Benzo(b)fluoranthene	1.6	1
Indeno(1,2,3-cd)pyrene	1	0.5

SAMPLE ID	GP-4 (10-11')	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	12370406-06	
COLLECTION DATE	11/29/2023	
ANALYTE	Result	
SEMIVOLATILE ORGANICS BY GC/MS		
Benzo(a)anthracene	21**	1
Benzo(a)pyrene	21**	1
Benzo(b)fluoranthene	22**	1
Benzo(k)fluoranthene	6.9	3.9
Chrysene	20	3.9
Dibenzo(a,h)anthracene	2.8**	0.33
Indeno(1,2,3-cd)pyrene	10*	0.5
TOTAL METALS		
Mercury, Total	30.9**	0.81

SAMPLE ID	GP-5 (1-2')	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	12370406-06	
COLLECTION DATE	11/29/2023	
ANALYTE	Result	
SEMIVOLATILE ORGANICS BY GC/MS		
Benzo(a)anthracene	1.8	1
Benzo(a)pyrene	1.9**	1
Benzo(b)fluoranthene	2.2	1
Indeno(1,2,3-cd)pyrene	1.4	0.5

SAMPLE ID	TP-2	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2450528-02	
COLLECTION DATE	9/5/2024	
ANALYTE	Result	
SEMIVOLATILE ORGANICS BY GC/MS		
Benzo(a)anthracene	10*	1
Benzo(a)pyrene	9.4**	1
Benzo(b)fluoranthene	16**	1
Chrysene	10	3.9
Dibenzo(a,h)anthracene	1.9**	0.33
Indeno(1,2,3-cd)pyrene	5.7*	0.5

SAMPLE ID	GP-14 (5-6')	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2427928-08	
COLLECTION DATE	5/20/2024	
ANALYTE	Result	
SEMIVOLATILE ORGANICS BY GC/MS		
Benzo(a)anthracene	47**	1
Benzo(a)pyrene	44**	1
Benzo(b)fluoranthene	54**	1
Benzo(k)fluoranthene	18	3.9
Chrysene	39	3.9
Dibenzo(a,h)anthracene	6.6**	0.33
Fluoranthene	170	100
Indeno(1,2,3-cd)pyrene	27**	0.5
Phenanthrene	140	100

SAMPLE ID	B16 (2.5-5')	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2427928-03	
COLLECTION DATE	5/10/2024	
ANALYTE	Result	
TOTAL METALS		
Lead, Total	689	400

LEGEND

GP-1/MW-1 Approximate Location and ID of Geoprobe Soil Boring Location Converted to a Monitoring Well

GP-2 Approximate Location and ID of Geoprobe Soil Boring

B102 Approximate Location and ID of Geotechnical Soil Boring (only the boring sampled for the Phase II ESA Shown)

B-3 Approximate Location and ID of Soil Boring Advanced as a function of LaBella's Phase II ESA

Approximate Location of 2003 Soil Removal Area

Sampling Location That Exceeds Unrestricted Use SCOs

TP-1 Approximate Location and ID of Test Pit

* Indicates analyte also exceeds its Commercial Use SCO
**Indicates analyte also exceeds its Industrial Use SCO

1:1,317

0 0.01 0.01 0.03 mi

0 0.01 0.03 0.05 km

APPENDIX B

PROJECT SPECIFIC OPERATING PROCEDURES

C.T. MALE ASSOCIATES ENGINEERING,
SURVEYING, ARCHITECTURE,
LANDSCAPE ARCHITECTURE &
GEOLOGY, D.P.C.

PROJECT SPECIFIC OPERATING PROCEDURE

MEASURING WATER LEVEL, TOTAL DEPTH, & IMMISCIBLE LAYER (LNAPL & DNAPL) THICKNESS IN A GROUNDWATER WELL

PSOP #001

June 18, 2026

Daniel T. Achtyl, P.G.		6/19/2026
Print Name	Technical Reviewer Signature	Date
Jeffrey A. Marx, P.E.		6/19/2026
Print Name	QA Manager Signature	Date

Review of the PSOP has been performed and the PSOP reflects the current practice			
Initials		**Date**	
Initials		**Date**	

PSOP: MEASURING WATER LEVEL, TOTAL DEPTH, & IMMISCIBLE LAYER (LNAPL & DNAPL) THICKNESS IN A GROUNDWATER WELL

1.0 PURPOSE

The purpose of this project specific operating procedure (PSOP) is to describe the procedure for measuring water level, total depth, and immiscible (i.e., does not dissolve in water) layer thickness of light non-aqueous phase liquids (LNAPL) and dense non-aqueous phase liquids (DNAPL) in a groundwater well.

2.0 SCOPE

This PSOP applies to all C.T. Male personnel engaged in measuring water level, total depth, and immiscible layer (LNAPL and DNAPL) thickness in a groundwater well.

3.0 RESPONSIBILITIES

3.1 Project Manager

The Project Manager is responsible for developing and communicating the scope of work as it relates to water level, total depth, and immiscible layer measurements to the Field Team Leader and Field Technician(s) and directing overall progress of the work.

3.2 Field Team Leader

The Field Team Leader shall know the requirements for water level, total depth, and immiscible layer thickness measurements, participate in and oversee measurement procedures, and maintain adequate documentation of the work.

3.2 Field Technician

Field Technicians are responsible for the proper measurement and documentation of water levels, total well depths, and immiscible layer thickness. They are also responsible for maintaining the equipment in good working order and aiding in troubleshooting equipment issues.

3.3 Health & Safety Officer

The Health & Safety Officer oversees health, safety, and environmental protection protocols and requirements. The Health & Safety Officer conducts personal protective equipment (PPE) evaluations, selects the appropriate PPE, lists the requirements in a health and safety plan (HASP), and conducts periodic audits to evaluate the effectiveness of the HASP.

4.0 EQUIPMENT AND SUPPLIES

The following equipment are applicable to this PSOP:

- Electronic water level indicator: A spool of flat measuring tape with a probe attached to the end. When the probe comes into contact with water, a circuit is closed, and an indicator light and continuous audible tone signals the contact. Water level indicators are manufactured under various brand names such as Solinst, Heron, etc., where this PSOP can apply to most brands.

- Oil/water interface probe: A spool of flat measuring tape with a probe attached to the end, and a grounding mechanism consisting of an insulated copper wire with alligator clip at the end. When the probe comes into contact with an immiscible layer, an indicator light and continuous audible tone signals the contact. When the probe comes into contact with water a flashing indicator light and intermittent audible tone signals the contact.

5.0 PROCEDURE

5.1 Equipment Testing Prior to Use

The electronic water level indicator and oil/water interface probes need to be tested prior to use to ensure they are functioning properly. To test the water level indicators, first ensure the unit is on by turning the knob into the on position.

For Solinst brand water level indicators, press and hold the "Battery Test" button, which should turn on the indicator light on the side of the unit as well as activating an audible tone. When the button is released the indicator light should shut off and audible tone should stop.

For Heron brand water level indicators, press and release the "Change Mode" button which will toggle the unit from "static level" to "drawdown" mode. Doing so should turn on the indicator light on the side of the unit as well as activating an audible tone. Press and release the "Change Mode" button to return the unit to "static level" mode.

To test the oil/water interface probe, press and release the "On" button. A short audible tone should be heard. The oil/water interface probe has an auto-off feature so this check should be performed before every reading to be taken.

If the indicator lights or audible tones are not heard, change the batteries and test the unit again. Water level indicators use a 9V battery and the oil/water interface probe uses AA batteries. If the instruments are still not properly functioning, it should be tagged for inspection by the Field Team Leader or sent to the manufacturer for repair.

5.2 Measurements - General

The water level, total depth, and immiscible layer thickness are measured prior to well purging or sampling. For new wells, measurements should not be taken until the water table has stabilized—preferably at least 24 hours after well installation and/or development. As applicable per project specific requirements, monitoring wells should be screened for organic vapors prior to water level measurements following the procedure in C.T. Male's "Organic Vapor Monitoring and Air Monitoring" PSOP.

Gripper caps or PVC slip caps, if present, should be removed from the wells and the well allowed to equilibrate for a period of not less than five (5) minutes before water level or immiscible layer level measurements are taken.

5.2.1 Water Level

Unless otherwise indicated by the Project Manager or Field Team Leader, water levels should be measured at all the wells on a site on the same day and before purging any of the wells. To promote consistent results, water level measurements are made from an established reference point (i.e., top of riser pipe or well casing). Water level measurements are made from the highest point of the riser pipe or well casing unless otherwise indicated by a notch or other permanent mark on the well. If the top of the riser is apparently level, take the readings at the north side of the riser. Measure the water level by slowly unspooling the water level indicator cable and lowering the probe into the well.

The depth to water is indicated by the markings on the cable. Read the water level directly off of the tape at the established reference point when the indicator light and audible tone signals contact with water. The tape shall be viewed level with the measuring point (rather than on an angle) or by grabbing the tape with fingers to help reduce inaccuracy and maintain consistency. The water level should be measured three (3) times consecutively (without completely winding up the water level indicator probe) to help increase accuracy. Record the water level to the nearest 0.01 foot on the appropriate field sheets.

5.2.2 Total Well Depth

Determine the total well depth by lowering the water level indicator probe (or equivalent) into the well until the probe does not unspool any further and the cable is observed to not be under full tension (i.e., obvious slack), indicating that the probe is resting on the bottom of the well. Then, holding the cable directly in your hand (i.e., not just suspended off the reel) to have a sense of the weight of the cable and probe, raise and lower the probe gently. Find the transition point at which the cable becomes heavier as the probe is picked up off the bottom of the well (and tension is restored in

the cable) and then lighter as the probe rests back on bottom of the well (and the cable becomes slack). At this transition point, just as tension is restored in the cable, is the total depth of the well. Raise and lower the water level indicator probe at least three (3) times to be confident that the bottom is being felt. Record the total well depth to the nearest 0.01 foot from the same measurement point that the water level was collected on the appropriate field sheets. Also record observations on the potential for accumulated sediments by taking note to a soft or hard bottom.

Alternatively, if available, utilize a Heron water level indicator probe with interchangeable well depth indicator probe. With the well depth indicator probe equipped, lower the water level indicator probe into the well until the indicator light and audible tone signals contact with the bottom of the well. This probe has a spring-loaded plunger that compresses under its own weight and completes a circuit when the probe comes into contact with the bottom of a well. Raise and lower the water level indicator probe at least three (3) times to be confident the bottom is being felt. Record the total well depth to the nearest 0.01 foot from the same measurement point that the water level was collected on the appropriate field sheets. Also record observations on the potential for accumulated sediments by taking note to a soft or hard bottom.

5.2.3 Immiscible Layer Thickness – Oil/Water Interface Probe

An oil/water interface probe should be used if immiscible layers may be present/encountered. An immiscible layer may consist of LNAPL or DNAPL. LNAPL has a specific gravity less than water and is typically floating on top of the water surface of a well. DNAPL has a specific gravity greater than water and tends to accumulate at the bottom of a well. After connecting the grounding cable of the oil/water interface probe to a suitable metal point (i.e, well casing, curb box or protective metal casing), determine immiscible layer thickness by slowly lowering the probe into the well and recording readings as described below.

5.2.3.1 LNAPL

If LNAPL is encountered above the water table, a steady tone will activate. If there is no LNAPL, an intermittent tone will activate indicating the air/water interface (water

level). Raise and lower the probe gently to clear product from the sensor and to determine the exact upper level of the LNAPL. The air/LNAPL level should be measured three (3) times consecutively (without completely winding up the interface probe) to help increase accuracy. Read the level of the air/LNAPL interface from the measuring tape at the established reference point and record to the nearest 0.01 foot on the appropriate field sheets.

Continue lowering the probe through the LNAPL until the continuous audible signal changes to an intermittent tone. This signals the contact of the LNAPL/water interface. Raise and lower the probe gently to clear product from the conductivity sensor and to determine the exact lower level of the LNAPL. The LNAPL/water interface should be measured three (3) times consecutively (without completely winding up the interface probe) to help ensure accuracy. Read the level of the LNAPL/water interface from the measuring tape at the established reference point and record to the nearest 0.01 foot on the appropriate field sheets.

5.2.3.2 DNAPL

If there is no LNAPL present, an intermittent tone will activate when the water level is reached. Continue slowly lowering the probe until a steady tone is activated indicating the upper surface of the DNAPL. Raise and lower the probe gently to clear product from the sensor and to determine the exact upper level of the product. The water/DNAPL level contact should be measured three (3) times consecutively (without completely winding up the interface probe) to help increase accuracy. Read the level of the water/DNAPL interface from the measuring tape at the established reference point and record to the nearest 0.01 foot on the appropriate field sheets.

Continue lowering the probe through the product until coming into contact with the bottom of the well. Raise and lower the probe gently to ensure the bottom is being felt. The bottom of the well should be measured three times consecutively (without completely winding up the interface probe) to help ensure accuracy. Read the depth to the bottom of the well from the measuring tape at the established reference point and record to the nearest 0.01 foot on the appropriate field sheets.

5.3 Data Reduction/Calculations

The water column in the well is calculated by subtracting the measured water level from the total well depth.

The difference in the air/LNAPL level and the LNAPL/water level is the LNAPL thickness. The difference in the water/DNAPL level and the bottom of well is the DNAPL thickness.

5.4 DECONTAMINATION

The water level indicator and oil/water interface probe used to collect measurements shall be decontaminated before use, between each use, and after use per C.T. Male's "Equipment Decontamination Procedures" PSOP.

5.5 INVESTIGATIVE DERIVED WASTE AND DISPOSAL

Waste generated by this process (i.e., decon water and PPE) will be disposed of in accordance with Federal, State and Local regulations and C.T. Male's "Investigative Derived Waste" PSOP.

6.0 RECORDS

The field technician(s) will document the water level, total depth, and LNAPL and DNAPL level measurements as well as any other pertinent information or observations on the appropriate data sheets in accordance with C.T. Male's "Note taking and Field Logs" PSOP.

C.T. MALE ASSOCIATES ENGINEERING,
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PROJECT SPECIFIC OPERATING PROCEDURE

DOMESTIC TRANSPORT OF SAMPLES TO LABORATORIES IN THE USA

PSOP #002

June 18, 2026

Daniel T. Achtyl, P.G.		6/19/2026
Print Name	Technical Reviewer Signature	Date
Jeffrey A. Marx, P.E.		6/19/2026
Print Name	QA Manager Signature	Date

Review of the PSOP has been performed and the PSOP still reflects the current practice			
Initials		**Date**	
Initials		**Date**	

PSOP: DOMESTIC TRANSPORT OF SAMPLES TO LABORATORIES

1.0 PURPOSE

The purpose of this Project Specific Operating Procedure (PSOP) is to describe the procedures necessary for personal delivery or shipment of samples from locations within the United States of America (USA) and its territories to analytical laboratories located within the USA and its territories. This procedure applies to the transportation of various media including, but not limited to: groundwater, surface water, soil, wipe, sediment, paint chips, debris, and air samples to the appropriate laboratory (i.e., environmental samples).

The procedures in this PSOP should be followed unless conditions make it impractical or inappropriate to do so. Modifications should be noted in the applicable documentation and communicated to appropriate personnel.

2.0 SCOPE

This procedure applies to all C.T. Male personnel engaged in the collection of media samples within the USA for laboratory analysis at facilities within the USA.

This procedure does not apply to the transportation of media samples to laboratories outside of the USA.

3.0 RESPONSIBILITIES

3.1 Project Manager

The Project Manager, in conjunction with field sampling personnel, is responsible for overall compliance with this technical procedure.

3.2 Field Technician

Field sampling personnel (a.k.a., Field Technician) shall ensure the security, temperature, and packaging of environmental samples for transport and shipment to the laboratory.

4.0 EQUIPMENT AND SUPPLIES

The following items are applicable to this PSOP:

- Rigid cooler
- Cardboard box
- Plastic Ziploc bags
- Absorbent padding
- Water ice
- Chain-of-Custody record
- Directional arrow labels
- Environmental samples
- Bubble wrap /bubble bags /cushioning material
- Large plastic bag/cooler liner
- Packing tape
- Shipping documents – if shipped via delivery service

5.0 PROCEDURE

5.1 General

Maintaining proper sample temperatures (< 6°C or ambient air temperature in accordance with the analytical method requirements) and delivering samples to the laboratory within 24 to 48 hours from collection are primary concerns. Individual analytical laboratories may have different requirements for packing of media samples. It is the responsibility of the Field Technician(s) to be aware of these requirements and package samples appropriately to meet the minimum requirements outlined by the laboratory. The procedures outlined below are meant to meet or exceed the most stringent requirements for proper packaging and can be modified as appropriate in consultation with the laboratory.

5.2 Packaging of media samples (water, soil, etc.) requiring chilled preservation

5.2.1 Packaging Samples

Line a clean and dry rigid cooler with a large plastic bag/cooler liner, if available. Place absorption padding, if provided by the laboratory at the bottom of the cooler within the cooler liner. Place a layer of bagged ice at the bottom of the cooler above the absorbent padding. Place media samples into the cooler on top of the bagged ice. Glass containers are to be packed in bubble wrap /bubble bags /cushioning material to avoid breakage. Methanol sample containers must be placed in a Ziploc bag to meet shipping requirements for preventing leaks. Place a layer of bagged ice above media samples along with sufficient cushioning material to entirely fill the cooler. Cinch up and zip tie the cooler liner shut, if used.

Sufficient bagged ice should be added to the cooler to maintain a constant temperature at < 6 °C, (but not frozen) until the samples arrive at the laboratory. Ice should be placed in Ziploc bags to prevent leaking.

Before sealing the cooler, fill out a chain-of-custody form completely and place required copies inside of a Ziploc bag (see Project Specific Operating Procedure for Documentation on a Chain-of-Custody). Place the Ziploc bag with chain-of-custody inside the cooler on

top of the closed cooler liner and close the cooler lid, ensuring that it closes completely and securely.

Near one side of the cooler, adhere a continuous strip of packaging tape on the cooler starting on the top and wrapping around the front, bottom, and rear of the cooler back to the top to seal the top closed. Continue to wrap the tape around the entire cooler two times and then affix a signed and dated custody seal straddling the crack of the lid on the front of the cooler. Then continue wrapping packing tape around the cooler for a third time to cover the custody seal. Repeat the tape wrapping process on the opposite side of the cooler, wrapping completely around the cooler three (3) times (only one custody seal is needed per cooler). Finally, attach the courier shipping label to the top of the cooler.

5.2.2 Additional Labeling

When shipping samples preserved with methanol, the cooler must have additional labels such as Flammable Liquid labels (Class 3) and Toxic labels (Class 6.1) or a Dangerous Goods in Excepted Quantities label placed on the outside of the cooler, but this should be validated with the laboratory.

Each cooler shall not exceed 500 mL of Methanol (16 vials, 30 mL of methanol per vial) and each vial shall not have more than 30 mL of methanol to meet the requirements of a dangerous good in excepted quantities. Acid/base preserved samples vials are often 40 mL or larger and do not qualify for excepted quantities.

As an option, directional arrow labels can be attached to the outside of the cooler to indicate that the cooler should remain upright during shipping.

5.3 Packaging of media (wipe, air, etc.) samples requiring ambient air temperature

5.3.1 Packaging Samples

Place the samples in a cooler (preferred)/cardboard box in a manner that will avoid breakage.
Before sealing the cooler/box, fill out a chain-of-custody form completely and place required copies inside of a Ziploc bag (see Project Specific Operating Procedure for

Documentation on a Chain-of-Custody). Place the Ziploc bag with chain-of-custody inside the cooler/box and close the top, ensuring that it closes completely and securely.

Near one side of the cooler or along the seam of the top of the cardboard box, adhere a continuous strip of packaging tape starting on the top and wrapping around the front, bottom, and rear of the cooler/box and back to the top to seal the top closed. Continue to wrap the tape around the entire cooler/box two (2) times and then affix a signed and dated custody seal straddling the crack of the lid on the front of the cooler or seam at the top of the box. Then continue wrapping packing tape around the cooler/box for a third time to cover the custody seal. Repeat the tape wrapping process on the opposite side of the cooler and as needed for a cardboard box, wrapping completely around the cooler/box three (3) times (only one custody seal is needed). Finally, attach the courier shipping label to the top of the cooler/box.

5.4 Sample Storage Prior to Shipment

For samples requiring ice as a preservative, the samples will be stored in a sample cooler immediately after collection (bubble wrapped as applicable) with bagged water ice and accompanied with the proper chain-of-custody documentation. The samples will be kept cold (< 6 °C, but not frozen) until receipt at the laboratory.

For samples that are stored at ambient air temperature, the samples will be placed in an appropriate container (i.e. cooler or cardboard box) and accompanied with the proper chain-of-custody documentation.

All samples will be kept secured to prevent tampering. If sample coolers are left in a vehicle or field office for temporary storage, the area will be locked and secured. Samples may have to be stored indoors in winter to prevent freezing.

Account for samples and compare sample IDs, dates, and times to the chain of custody (see Project Specific Operating Procedure for Documentation on a Chain-of-Custody) before shipping.

5.5 Shipping Consideration

The coolers/boxes must be delivered to the laboratory or laboratory service center via hand or over-night delivery courier in accordance with all Federal, State and Local shipping regulations.

Ship samples during times when the laboratory will be able to accept and analyze them. Whenever possible, select mode of transport/delivery to ensure delivery to the laboratory will occur with ample recommended holding time remaining for the specified analytical methods required for the samples. Avoid sending samples during holidays and weekends. Federal, State and Local shipping regulations must be met.

5.5.1 Transport / Delivery Options

Personal Delivery. The samples are delivered to the laboratory by the Field Technician. The sample coolers/boxes are relinquished to the laboratory and the Field Technician and laboratory personnel sign and date the chain-of-custody record at the time the samples are relinquished.

Local Courier. The samples are picked up by a courier. The sample coolers/boxes are relinquished to the courier and the field technician and courier sign and date the chain-of-custody record at the time the samples are relinquished. The courier then delivers the samples to the laboratory. The sample coolers/boxes are relinquished to the laboratory and the courier and laboratory personnel sign and date the chain-of-custody record at the time the samples are relinquished.

Overnight Courier. The samples are picked up by an overnight courier (i.e. Federal Express, United Parcel Service). The Field Technician signs and dates the chain-of-custody record prior to sealing it in the coolers/boxes. The sample coolers/boxes are relinquished to the overnight courier with custody seals in place, and the overnight courier delivers the samples to the laboratory. Laboratory personnel sign and date the chain-of-custody record at the time the samples are received from the overnight courier.

6.0 RECORDS

The Field Technician records all pertinent information on the chain-of-custody record in accordance with C.T. Males Project Specific Operating Procedure for Documentation on a Chain-of-Custody.

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PROJECT SPECIFIC OPERATING PROCEDURE

CHAIN OF CUSTODY PROCEDURES

PSOP#003

June 18, 2026

Daniel T. Achtyl, P.G.		6/19/2026
Print Name	Technical Reviewer Signature	Date
Jeffrey A. Marx, P.E.		6/19/2026
Print Name	QA Manager Signature	Date

Review of the PSOP has been performed and the PSOP reflects the current practice			
Initials		**Date**	
Initials		**Date**	

PSOP: CHAIN OF CUSTODY PROCEDURES

1.0 PURPOSE

This project specific operating procedure (PSOP) describes how to properly document information on a chain-of-custody (COC) form. A COC is a legally binding document that identifies sample identification, analyses required, and shows traceable possession of samples from the time they are obtained until they are introduced as evidence in legal proceedings.

The recommended procedures in this PSOP should be followed unless conditions make it impractical or inappropriate to do so. Modifications should be noted in applicable documentation and communicated to appropriate personnel.

2.0 SCOPE

This PSOP applies to all C.T. Male personnel engaged in the collection of samples for laboratory analysis per an accepted [i.e., New York State Department of Environmental Conservation (NYSDEC) Analytical Services Protocol (ASP) or Environmental Protection Agency (EPA)] laboratory method.

This PSOP does not apply to samples that are only collected for field screening purposes or samples collected that will remain on site and not be delivered to a laboratory.

3.0 RESPONSIBILITIES

3.1 Project Manager

The Project Manager is responsible for designating who will be completing COCs, and ensuring overall compliance with this PSOP.

3.2 Field Technician

Field Technicians are responsible for proper sample identification and for accurate and complete documentation on a COC. The field technicians are also responsible for the care and custody of the samples until they are properly transferred or sent to the laboratory.

4.0 PROCEDURE

4.1 General

The laboratory that will be performing the analysis will provide a COC record appropriate for the environmental media (soil, water, air, etc.) to be analyzed and will provide any applicable instructions on how to complete the COC.

The COC record may be available in electronic format that will allow for certain fields to be filled out ahead of time (e.g., project number, project name, project manager, data validation package, turnaround time, etc.), while sample specific information should be completed in the field. A COC documents sample custody transfer from time of collection by the field technician (sampler), often through another person, to the laboratory.

All samples leaving a site should be accompanied by a COC record. The COC should ideally be completed at the time of sample collection, prior to leaving the sampling location. While samples are in the field technician's possession the samples should be under observation or secured. Samples may be secured in a sealed container, locked vehicle, locked room, etc. After the COC record is complete, the Field Technician should have another person (i.e. Project Manager or designee) review the completed COC to check for errors or omissions prior to relinquishing the samples and COC. Sample labels should be checked alongside the COC to ensure information on the labels and COC matches, and a checkmark placed in the margin of the COC next to each sample ID once this is complete.

When relinquishing samples to a courier or the laboratory, both the individual relinquishing and the individual receiving the samples should sign and date the COC record at the time of transfer. The original COC record should accompany the samples to the laboratory. A copy (carbon copy, photocopy, or photo, as applicable) of the COC should be retained by the individual relinquishing the samples. Any issues with the condition of the shipping container(s) or the custody seal should be noted on the COC record. Any problems with the individual samples, such as a broken container, should be noted on the COC record.

4.2 Common Chain of Custody Fields/Information

Listed below are common fields or information that are listed on the COC, which may or may not be applicable to the sampling media or analysis:

- COC numbered pages (e.g., 1 of 1);
- Report and invoice recipient information;
- Purchase order number or account number (if applicable);
- Project name and number;
- Project Manager name;
- Field Technician (sampler) name(s);
- Sample Identification (Sample ID);
- Analysis requested, preferably by EPA Method number;
- Sample collection date and time;
- Sample matrix (COC may have abbreviation codes);
- Sample type – composite or grab;
- Sample preservation code or written name;
- Sample filtration (if needed);
- Sample comments, as applicable;
- Laboratory name and location;
- Requested due date;
- Turnaround time for analysis;
- Method of analytical delivery – email, hard copy – and to whom;
- Data deliverable information
- EDD (electronic data deliverable) format;
- Signature of Field Technician (i.e., sampler(s)) under the first "relinquished by";
- Date and time of sample transfers;
- Method of transport (UPS, FedEx, local courier, sampler, etc.); and
- Air Bill number (if applicable).

For air sampling in SUMMA Canisters, the laboratory may supply a different type of COC that is specific for the collection of air samples. These labs supplied COC typically have different fields that need to be completed, in addition to the ones listed above that area applicable. These fields include, but are not limited to:

- Canister serial number and size or lab identifier;
- Flow controller serial number or lab identifier;
- Initial and final vacuum;
- Stop and start time of air flow; and
- PID reading.

5.0 RECORDS

The Field Technicians hardcopy of the COC will be kept in the applicable project files (if specifically required), otherwise shall be discarded after being scanned to C.T. Male's electronic project directory.

C.T. MALE ASSOCIATES ENGINEERING,
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PROJECT SPECIFIC OPERATING PROCEDURE

COLLECTION OF GROUNDWATER SAMPLES USING LOW-FLOW PURGING AND SAMPLING

PSOP #005

June 18, 2026

Daniel T. Achtyl, P.G.		6/19/2026
Print Name	Technical Reviewer Signature	Date
Jeffrey A. Marx, P.E.		6/19/2026
Print Name	QA Manager Signature	Date

Review of the PSOP has been performed, and the PSOP still reflects the current practice			
Initials		**Date**	
Initials		**Date**	

PSOP: COLLECTION OF GROUNDWATER SAMPLES USING LOW-FLOW PURGING AND SAMPLING

1.0 PURPOSE

The purpose of this procedure is to describe the methods used for low-flow purging and sampling of monitoring wells. Low-flow sampling maximizes the potential for representative groundwater samples. A representative groundwater sample should reflect the physical and chemical properties of the groundwater in the portion of the formation open to the well. This PSOP also provides details regarding the measurement of groundwater stabilization criteria, and identification of common container, preservative, and holding times for typical groundwater sample analyses.

2.0 SCOPE

This PSOP applies to all C.T. Male personnel and subcontractors engaged in sampling of groundwater monitoring wells and piezometers. This PSOP focuses on low flow sampling techniques and should be used in conjunction with other applicable project PSOPs.

3.0 RESPONSIBILITIES

3.1 Project Manager

The Project Manager will develop or direct the development of the site-specific scope of work based upon the needs of the project.

3.2 Field Team Leader

The Field Team Leader will direct the low flow sampling procedures to be used. The Field Team Leader should know the requirements for low flow sampling and should maintain adequate documentation of the sampling process.

3.3 Field Technician

Field Technician(s) are responsible for the measurement of well pumping rates, field screening procedures, field equipment and calibration, proper sample identification, collection of samples, quality control procedures, and documentation. They should be familiar with the procedures described in this document and use professional judgment when sampling, especially when conditions are not routine, in order to collect a representative sample.

4.0 EQUIPMENT AND SUPPLIES

The following items are applicable to this PSOP:

- Water quality meter (e.g., YSI or equivalent);
- Turbidimeter;
- Water level indicator;
- Graduated measuring container;
- Clock or stopwatch;
- Inline filters;
- Sample containers;
- Sample labels;
- Coolers;
- Pumps (e.g., submersible, bladder or peristaltic), power source and appropriate drive tubing; **
- Compressed air source (bladder pump);
- Ring Stand or equivalent to secure tubing;
- Sample tubing;**
- Calculator;
- Plastic Bags; and
- Ice.

** Tubing constructed of Teflon or Teflon-lined polyethylene tubing are preferred when sampling includes VOCs, SVOCs, pesticides, PCBs, and inorganics but other materials may be used if information is available showing that there is no leaching of contaminants or interferences for the analyses being performed. PVC, polypropylene or polyethylene tubing may be used when collecting samples for metals and other inorganics. Use HDPE tubing when sampling for PFAS.

5.0 PROCEDURE

5.1 General

This section addresses the general procedure(s) for calibrating field equipment, measuring pumping rates, well purging, measuring well stabilization, and the sampling, handling, and delivery involving groundwater sampling. Best practices include setting up the purging, stabilization, and sampling equipment in an upwind direction from any potential source of contamination.

Sample collection methods can vary by project. If not specified in the project scope of work and/or documentation - e.g., Work Plan, Field Sampling Plan (FSP), or Quality Assurance Project Plan (QAPP), consult with the appropriate regulatory agency for guidance.

A minimum of 24 hours should pass between monitoring well development and monitoring well sampling.

It is recommended that low-flow sampling be conducted when the air temperature is above 32 °F (0 °C). If the procedure is used below 32 °F, special precautions will need to be taken to prevent the groundwater from freezing in the equipment. Ice formation in the flow-through-cell will cause the monitoring probes to act erratically. A transparent flow-through-cell should be used to observe if ice is forming in the cell.

Direct sunlight and hot ambient air temperatures may cause the groundwater in the tubing and flow-through-cell to heat up. This may cause groundwater to degas which will result in loss of volatile organic compounds (VOCs) and dissolved gases. When sampling under these conditions, the sampler will need to shade the equipment from the sunlight (e.g., umbrella, tent, etc.). The tubing exiting the monitoring well should be kept as short as possible to avoid the sunlight or ambient air from heating up the groundwater.

Dedicated sampling equipment and/or decontamination of sampling equipment is required to prevent cross-contamination.

Collection of groundwater samples from residential/water supply systems are not discussed within this PSOP.

5.2 Calibration

The water quality meter and turbidimeter will be calibrated as per the applicable C.T. Male PSOP. The meters will undergo calibration checks, at a minimum, before sampling. The calibration check will be documented on a calibration form (as appropriate) and/or in the field notes. Significant issues found during the calibration check will be noted.

5.3 Purging/Well Stabilization/Sampling

Prior to sampling, water levels are measured (see applicable C.T. Male PSOP) and purging of the monitoring well is performed to remove stagnant water from within the well and to stabilize the well to allow for representative groundwater sample collection. The term "purge volume" refers to the amount of water removed from a well before groundwater sample collection occurs.

Low-flow purging may be completed using one of the following, depending on the well and the sampling requirements; an electric submersible pump, bladder pump, or peristaltic pump. Pumps constructed of stainless steel or Teflon (if not sampling for PFAS) are preferred but other materials may be used if information is available showing that there is no leaching of contaminants or interferences for the analyses being performed. Dedicated equipment should be installed when possible, to minimize disturbance in the well. Non-dedicated (portable) sampling devices will be slowly and carefully lowered into the well to minimize disturbance. The intake port for the pump being used will be placed at a depth such that the intake is at or slightly above the middle of the screened interval.

Pumping rates during low-flow purging are typically kept below 500 mL/min; however, this is dependent on the site-specific hydrogeology and will be adjusted to minimize drawdown during purging. Drawdown is the lowering of the water level in a monitoring

well due to water being evacuated (purged) faster than the groundwater recharge rate. An electronic water level indicator will be used to determine that a minimal amount of drawdown is occurring within the well, ideally, no more than 6 inches, but documented in field notes, if not. Flow rate will be measured using a graduated measuring container and a watch/clock. During the first purge/sampling event, a purge rate will be established for each monitoring well. Samplers should attempt to match the same purge rate during subsequent events, if possible. Pump powering equipment that generates air emissions shall be kept downwind of the well that is being sampled.

If the well was purged dry, the samples should be collected within 24 hours of when the well was purged dry or ideally when recovery reaches 90%. If there is insufficient sample volume for the analyses being sampled, the project team will need to decide if sampling should be carried out or if a reduced prioritized list of analyses should be collected in consultation with the Project Manager.

5.3.1 Peristaltic Pump Purging

A peristaltic pump is used when the water level is within suction lift (e.g., within about 25 feet of the ground surface but may be less at higher altitudes). It usually is a low-volume suction pump with low pumping rates suitable for sampling shallow, small-diameter wells.

- Put on appropriate PPE for protection and to prevent sample contamination.
- Lower tubing intake into the well at the same time as the water level meter and secure tubing in the middle of the well screened interval or middle of the water column if the screen is not fully submerged.
- Connect the well tubing to the drive tubing entering the pump.
- Connect the drive tubing (silicone) exiting the pump to a T-valve, if measuring turbidity, or sampling port connected to a short section of tubing entering the bottom connection of the flow- through cell.

- Connect a short discharge tube to the top of the flow-through cell into a 5-gallon graduated purge water discharge bucket.
- Plug the pump into the battery and set the speed to zero. Turn on pump and slowly increase the speed to the desired rate of flow.
- Sampling may begin once the well has stabilized (see Section 5.3.4, Well Stabilization of this PSOP).

Due to the negative pressure used to lift the sample when using a peristaltic pump, loss of some VOCs could occur, especially at depths to groundwater approaching suction lift limitations (>20 feet). The project team should decide if VOCs should be collected from a peristaltic pump based on their project requirements in consultation with the Project Manager.

5.3.2 1.5-inch Submersible Pump Purging (Temporary or Dedicated)

A submersible pump is used when the water level is greater than the suction lift associated with a peristaltic pump. It can purge water from depths down to 200 feet depending on pump model and manufacturer. A variable speed controller is required for operation of the pump. There are a variety of speed controllers available, typically designed for a specific pump.

- Put on appropriate PPE for protection and to prevent sample contamination.
- Attach appropriate diameter tubing to pump intake, lower pump, and secure at desired depth (typically, middle of the well screen interval).
- Cut off tubing, allowing additional tubing length for discharge.
- Set the controller speed or voltage to zero.
- Plug the pump into the controller.
- Attach the controller to the power supply.

- Connect the water side to a T-valve or sampling port connected to the flow through cell, if being used.
- Turn on the controller and dial the speed control to the desired flow rate and measure the flow rate with the graduated measuring container. The controller can slow the purge rate down to the optimum rate.

  Note: If the submersible pump is not running, turn off the pump and then disconnect from the power supply. Check connections and try again.
- Sampling may begin once the well has stabilized (see Section 5.3.4, Well Stabilization of this PSOP).

5.3.3 Bladder Pump Purging

A bladder pump may be used when the static water level is >25 feet or at shallower depths when concerns with VOC loss via peristaltic pumping is identified by the project team.

- Put on appropriate PPE for protection and to prevent sample contamination;
- Hook air and sampling tubing to the pump.
- Lower pump into the well at the desired depth (typically, middle of the well screen interval).
- Attach the air side of the tubing to the controller.
- Connect the water side to a T-valve or sampling port connected to the flow through cell, if being used.
- Attach controller to the air source (e.g., air compressor or compressed CO_2).
- Set the air pressure to the manufacturer's recommendation based on the well depth.
- Set the number of pumping cycles, recovery times, and discharge times.
- When water flows from discharge of the pump, adjust the flow according to desired flow rate and measure the flow rate with the graduated measuring container.

- Sampling may begin once the well has stabilized (see Section 5.3.4, Well Stabilization of this PSOP).

5.3.4 Well Stabilization

Well stabilization is typically conducted to improve the representativeness of the groundwater sample to aquifer conditions. A well is considered stabilized after the groundwater (or well) stabilization parameter measurements are within acceptable limits for three (3) consecutive readings. The stabilization parameters should be monitored at a frequency of three to five-minute intervals or greater unless there are other project requirements. The pump's flow rate must be able to "turn over" at least one flow-through cell volume between measurements (e.g., flow rate = 50 mL/min, flow-through cell = 250 mL, monitor every five minutes; every 10 minutes with a 500 mL flow-through cell). Well stabilization parameters may vary by project or regulatory agency but typically include pH, temperature, conductivity (temperature corrected electrical conductivity), oxidation-reduction potential (ORP), turbidity, and dissolved oxygen (DO). Turbidity and DO usually require the longest time for stabilization.

Most wells typically stabilize within two (2) hours. Prior to going on-site, review previous low-flow groundwater sampling logs from the site (if available) and discuss with the Project or Task Manager what should be done if wells take longer than two (2) hours to stabilize (e.g., collect a pair of filtered/unfiltered samples for metals analysis when turbidity > 5 Nephelometric Turbidity Units (NTU)). Initially, the Field Technician should document that the field equipment is functioning properly and that operator error is not an issue. If the checks produce no new insight, one of three (3) optional courses of action may be taken: 1) continue purging until stabilization is achieved, 2) discontinue purging, do not collect any samples, and record in the field log data sheets or field notes that stabilization could not be achieved (documentation must describe attempts to achieve stabilization), or 3) discontinue purging, collect samples and clearly document in the field log data sheets or field notes that stabilization was not achieved.

The procedure to stabilize a well includes recording well stabilization parameter measurements collected with the water quality meter during the well purging process and recording the purged well volumes. Groundwater aliquots used for stabilization parameter measurements (aside from turbidity) are measured by utilizing in-line, flow-through cell equipment. Turbidity is typically measured with a standalone turbidimeter by collecting samples from a three-way valve installed upstream of the flow-through-cell, but in the absence of a flow-through cell, could be a direct grab in a clean cup.

Documentation of the well stabilization process typically includes recording pertinent information such as the pump type, pumping rate, volume pumped, and well stabilization measurements on the field log data sheets.

The well may be sampled after three (3) consecutive measurements are within specific project criteria or the criteria presented in Section 5.6, Well Establishment Criteria of this PSOP.

5.3.5 Sampling

After the well has stabilized, disconnect the tubing entering the t-valve and sample. The same pump that is used for purging will be used for low-flow sampling. The project team will determine the order for sampling the wells but general guidelines are below:

- Where water quality data are available, the least contaminated wells would be sampled first, proceeding to increasingly contaminated wells;
- Where the distribution of contaminants is not known, wells considered to be upgradient from likely sources of contamination would be sampled first and downgradient wells closest to the suspected contamination would be last; and
- Keep records of the order in which wells were sampled.

Depending on project requirements, groundwater samples being analyzed for metals may or may not be filtered and in some cases, both filtered and unfiltered samples may be collected. Inline filtration methods will be used to collect filtered samples.

Put on new Nitrile gloves at each sampling site to reduce the risk of sample cross-contamination and exposure to skin (double glove during PFAS sampling). Never re-use gloves.

Prepare sampling containers by filling out the label, using an indelible permanent pen, with the following information at a minimum:

- Sample ID
- Date and time of sample collection
- Preservative
- Sample analysis (if required by the lab)

When filling the containers, do not insert the tubing into the containers and do not overfill preserved containers. When all samples are containerized, place the filled sample containers in a sampling cooler with ice, turn off any equipment, disassemble the sampling apparatus, carefully remove non-dedicated equipment to minimize disturbance to the well, dispose of all one-time use (disposable) equipment, and decontaminate reusable equipment per C.T. Male's PSOP Equipment Decontamination Procedures.

5.3.6 Preservation

Container volume, type, and preservative are important considerations in sample collection. Container volume must be adequate to meet laboratory requirements for quality control, split samples, or repeat analyses. The container type varies with the analysis required. Typically, the analytical laboratory will preserve the container before

shipment. Preservation and shelf life vary; contact the laboratory to determine if container is still useful.

5.3.7 Handling

The samples will be bubble/mesh wrapped or bagged after collection, stored in a sample cooler, and packed on bagged wet ice. Samples will be kept cold (≤ 6 °C, but not frozen), until receipt at the laboratory (where applicable).

Samples may need to be stored indoors in winter to prevent freezing.

5.3.8 Shipment/Delivery

Once the cooler is packed to prevent breaking of bottles, the proper chain-of-custody (COC) documentation is signed and placed inside a plastic bag then added to the cooler. The COC will be completed in accordance with C.T. Male's PSOP, Chain of Custody Procedure. All samples will be kept secured to prevent tampering. If sample coolers are left in a vehicle or field office for temporary storage, the area will be locked and secured. Custody seals may be present, but at a minimum, the coolers must be taped shut to prevent the lid from opening during shipment.

The coolers must be delivered to the laboratory via hand or overnight delivery courier, if possible, in accordance with all Federal, State and Local transportation regulations and C.T. Male's PSOP Domestic Transport of Samples to the Laboratory.

5.4 Disposal

Waste generated by this process will be disposed of in accordance with Federal, State and Local regulations and C.T. Male's PSOP Investigative Derived Waste.

5.5 Quality Control and Quality Assurance (QA/QC)

QA/QC samples are defined in C.T. Male's PSOP Collection of Quality Control Samples. The sampling frequency should be performed at the frequency noted in the project scope of work and/or documentation (e.g., Work Plan, FSP, or QAPP).

5.6 Well Stabilization Criteria

Well stabilization criteria below are to be used if there are no project specific criteria:

- pH ± 0.1 standard units;
- Temperature - ± 3%;
- Conductivity - ± 3%;
- ORP ± 10 mV;
- Dissolved oxygen ± 10% (> 0.5 mg/L); and
  Note: Three consecutive readings ≤ 0.5 mg/L can be considered stabilized.
- Turbidity ± 10% (> 5 NTU).
  Note: Three consecutive readings ≤ 5 NTU can be considered stabilized.

6.0 RECORDS

The field technician will document the flow rate, drawdown, time purged, volume purged, water level, depth of tubing intake, total well depth, stabilization test measurements, and any unusual conditions that occurred (e.g., excessive drawdown, noticeable discoloration, presence of sediment, odor in the water, etc.) on the field log data sheet and/or field notebook. They will also document the type and number of bottles on the chain-of- custody record, as appropriate. The analysis for each container and the laboratory used will be documented on the chain-of-custody record. Refer to

C.T. Male's PSOP Documentation on a Chain-of-Custody (COC) for further information. Examples of common field documentation are available in C.T. Male's Note Taking and Field Logs PSOP.

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PROJECT SPECIFIC OPERATING PROCEDURE

FIELD WATER QUALITY MEASUREMENTS AND CALIBRATION

PSOP #006

June 18, 2026

Daniel T. Achtyl, P.G.		6/19/2026
Print Name	Technical Reviewer Signature	Date
Jeffrey A. Marx, P.E.		6/19/2026
Print	QA Manager Signature	Date

Review of the PSOP has been performed and the PSOP still reflects the current practice			
Initials		**Date**	
Initials		**Date**	

PSOP: FIELD WATER QUALITY MEASUREMENTS AND CALIBRATION

1.0 PURPOSE

The purpose of this project specific operating procedure (PSOP) is to describe general methods for calibrating, maintaining, and operating water quality meters and probes used for water sampling. This PSOP provides general guidelines; however, the manufacturer's manual describing calibration and project specific operating procedures for each field instrument should be referred to for complete calibration and operating instructions.

2.0 SCOPE

This procedure applies to all C.T. Male personnel engaged in water sampling activities.

3.0 RESPONSIBILITIES

3.1 Project Manager

The Project Manager is responsible for developing the scope of work as it relates to collection of field water quality measurements and is responsible for ensuring overall compliance with this PSOP.

3.2 Field Team Leader/Field Technician

The Field Team Leader/Field Technician will know how to use the field instruments and conduct instrument calibrations. They will also maintain documentation of the calibration process and measurements taken while using the instruments.

4.0 EQUIPMENT AND SUPPLIES

Water quality meters and instruments vary in their manufacturer and model number. Below is a list of commonly used meters and instruments, and other related supplies that can be used for field water quality measurements.

- YSI Multi-parameter Instrument or equivalent;
- Flow-thru cell;
- Turbidity meter;
- Data transfer connector cables;
- Discharge hoses;
- Fittings to attach sample tubing to flow through cell;
- Distilled water; and
- Calibration solutions and buffers (ORP, conductivity, pH, and turbidity).

Instructions for maintenance and operation of all these field instruments are described in the operation manuals provided by the manufacturer.

5.0 PROCEDURE

5.1 General

Water quality meters are typically used in the field to measure the following parameters:

- Dissolved oxygen (DO);
- Oxidation-reduction potential (ORP);
- Conductivity;
- pH;
- Turbidity; and
- Temperature.

5.2 Calibration

Calibrate/bump check all instruments for all field parameters daily before collecting water quality data, according to the manufacturer calibration specifications for the instrument being calibrated. In addition, if there are anomalous readings during sample collection, stop sample collection and re-calibrate, if possible. Document field calibration in the Field Logs. Section 5.2.4 has a table of calibration acceptance limits.

If a field instrument will not calibrate, perform troubleshooting as described in the manufacturer's manual. Check that the calibration standards have not expired. If the issue cannot be resolved, use a backup instrument. If one is not available, consult with the Project Manager on whether data collection should continue and on any other corrective actions to be taken. Flag any data recorded from a meter with calibration problems on the Groundwater Purge and Sampling Field Datasheet, and other appropriate Field Logs.

5.2.1 pH Calibration (2-point or 3-point calibration)

Calibrate all instruments recording pH daily, using at minimum a 2-point calibration method. A 2-point calibration uses two (2) pH buffer calibration solutions (typically pH 7 and pH 10). When starting the calibration process, calibrate with buffer pH 7 first regardless of performing a 2 or 3-point calibration.

If the pH of water being measured is unknown, a 3-point calibration method is preferred. Using this calibration, the pH sensor is calibrated with a pH 7 buffer and two (2) additional buffers (pH 4 and pH 10). The 3-point calibration method accounts for the full pH range and assures maximum accuracy when the pH of the media to be monitored cannot be anticipated. Typically, the procedure for a 3-point calibration is the same as for a 2-point calibration, with the addition of a third pH buffer.

Follow the recommended manufacturer pH calibration instructions for additional detailed instruction for the instrument being used. Record the pre-cal, calibration, and post-cal or bump check values on the Daily Calibration Record. See section 5.2.4 for a table of calibration acceptance limits for pH using standard units.

5.2.2 Conductivity Calibration

Perform daily calibration for conductivity according to the recommended manufacturer's calibration instructions. Conductivity is typically entered as millisiemens per centimeter (mS/cm) at 25 degrees Celsius (^{o}C). Conductivity standard solution values to use vary depending on the equipment. The meter is calibrated by entering the conductivity of the solution being monitored and the instrument will calibrate, and the instruments screen will indicate if the calibration has been accepted. Record the pre-cal, calibration, and post-cal or bump check values on the Daily Calibration Record. See section 5.2.4 for a table of calibration acceptance limits for conductivity.

5.2.3 Calibration Check of Oxidation Reduction Potential (ORP) Probe

A calibration check of the ORP probe can be performed by placing it into a solution that is within approximately 10°C of the expected groundwater temperature, or as close to groundwater temperature as practical. This is not a calibration solution, but a check that the probe is working properly. ORP check solution have a short shelf life. The reading is dependent upon temperature and should fall within ± 10 mV of the ORP reading shown on the meter. The table with the appropriate temperature and solutions value in mV will be listed in the field instruments operation manual. Record the pre-cal, calibration, and post-cal or bump check values on the Daily Calibration Record. See section 5.2.4 for a table of calibration acceptance limits for ORP probe.

5.2.4 Dissolved Oxygen

Perform a saturated air check of the DO probe by placing a small amount of water in the cap that covers the probe, but leave the probes out of the water, and tighten the cap almost all the way on. Check the dissolved oxygen reading against the theoretical value of saturated (100%) oxygen.

5.2.4 Calibration Check acceptance limits for DO, pH, Conductivity, ORP

Below is a table of calibration acceptance limits for each parameter listed.

Sensor	Calibration Solution Value	Calibration Check Acceptance Limits
Dissolved Oxygen (%)	Assumed 100% air saturation based on barometric pressure and/or stabilized reading at time of calibration	± 0.5 mg/L of saturated value
Dissolved Oxygen (mg/L)	Solution of known value (0-20 mg/L)	± 0.5 mg/L of saturated value
Conductivity (mS/cm)	1.409	± 10% of standard or 20 uS/cm, whichever is greater
pH (Standard Units)	4.00 (if used)	± 0.3 Standard Units
pH (Standard Units)	7.00	± 0.3 Standard Units
pH (Standard Units)	10.00 (if used)	± 0.3 Standard Units
ORP (mV)	Zobell Solution (231.0 mV @ 25°C	± 10 mV for temperature based calculation

5.2.5 Turbidity Meter Bump Check and Calibration (4-point calibration)

Turbidity meters should be bump checked on a daily basis by inserting at least one calibration standard into the meter, ideally using a standard with a value close to the expected turbidity of the samples to be measured, and taking a turbidity reading to confirm that measurements are within approximately 10% of the expected value. These readings should be recorded on the Daily Calibration Record. If the reading is inaccurate, perform calibration of the turbidity instrument according to the recommended manufacturer's calibration instructions. Turbidity instruments should be calibrated using up to a 4-point calibration method; typical calibration standards used are <0.1 NTU, 20 NTU, 100 NTU, and 800 NTU. The 4-point calibration method accounts for turbidity over a wide range. Record the calibration standard value and the calibrated turbidity value of each calibration point (< 0.1, 20, 100, and 800 NTU) on the Daily Calibration Record.

5.3 Water Quality Instrument Field Measurement and Usage

The general procedures for measuring groundwater quality parameters and flow-through cell setup are as follows:

1. Before taking any field measurements, calibrate instruments according to the manufacturer's procedures and record the calibration on the Daily Calibration Record.

2. Secure the multi-meter sonde (or analyte specific probes) to the flow-through cell. Connect a short discharge tube to the effluent connector at the top of the flow-through cell and run the other end of the discharge tube into a 5-gallon purge water capture bucket.

3. Place the tube from the pump directly into the 5-gallon purge water bucket and start to purge (pump) for approximately 1 to 2 minutes or until the purge water begins to visually clear up. The intent is to limit any initially high turbidity water from filling and settling in the flow-through cell.

4. Once the turbidity has stabilized, briefly turn off the pump and secure the tube from the pump to the influent connector at the bottom of the flow-through cell. Turn on the pump again and then allow the flow-through cell to completely fill with water. Effort should be made to keep air bubbles from collecting in the flow-through cell, if they do, disconnect the probes from the cell while pumping until all the air escapes and then reconnect the probes.

5. Continue pumping and begin low-flow purging of the monitoring well at an appropriate flow rate.

6. Routinely measure and record the DO, ORP, conductivity, pH, turbidity, temperature, and current groundwater level throughout the purge approximately every 5 minutes.

7. Continue to measure and record the groundwater parameters and current groundwater level until the parameters stabilize according to the following stabilization criteria. Groundwater parameters are considered stable after purging if three (3) successive readings are within:

- ± 0.5 °C temperature;

- ± 0.1 pH;
- ± 5% conductivity;
- ± 10 millivolt (mV) ORP;
- ± 10% DO or three consecutive readings less than or equal to 0.5 mg/L apart; and
- ± 10% turbidity or three consecutive readings ≤ 5 nephelometric turbidity units (NTUs) apart.

8. Note the following before and during water quality measurement and groundwater purging:

- Obtain the typical ranges for the water quality parameters at a well (or site) prior to measurement and purging, if possible, and bring these values to the field for reference during sampling. Water quality parameter ranges can often be obtained from historical groundwater purging and sampling events. These previous values should be used as clues to determine if an instrument is reading correctly and/or is drifting during water quality measurement.
- ORP and DO measurements should always correlate with each other. Generally ORP should be negative whenever DO is near or less than 1 milligram per liter(mg/L); likewise, DO should be greater than 1 mg/L if ORP is positive.
- DO measurement should always be positive and range between 0 and 14.62 mg/L.
- ORP measurements should range between -500 mV and 275 mV.
- The pH of environmental samples will typically range from 6 to 8 pH units.
- When measuring turbidity, be sure to clear any moisture or dust off of the turbidity sample cell and place the sample cell and light cover completely and securely. Also, be sure to put the turbidity instrument out of direct sunlight, or else light interference may provide false readings.

9. When parameters have stabilized, record final measurements and collect samples.

5.4 Storage

Perform the following tasks each day upon conclusion of using any water quality measurement instrument:

1. Decontaminate the instrument(s).

2. Moisten protective caps that are made to protect the tips of probes or sensors with fresh water and replacing them back to their probes or sensors for storage while the instrument is not in use.

3. Recharge or replace batteries on any instruments and meters to ensure sufficient battery charge for next use.

4. Store the instrument or meter in the protective case provided with the instrument or meter.

5. Take any additional storage and maintenance steps recommended by the manufacturer as specified in the instrument's operations and maintenance manual.

5.5 Service and Maintenance

Perform service and maintenance according to manufacturer's instructions.

6.0 RECORDS

Record all instrument calibration information on a Daily Calibration Record. Calibration information that should be recorded for each instrument calibrated includes the brand and model number, unique identification number, type, lot number, expiration date of any calibration solutions, and results of the calibration. Record all field data collected during groundwater sampling on the appropriate field logs.

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PROJECT SPECIFIC OPERATING PROCEDURE

NOTE TAKING AND FIELD LOGS

PSOP #009

May 22, 2026

Daniel T. Achtyl, P.G.		6/19/2026
Print Name	Technical Reviewer Signature	Date
Jeffrey A. Marx, P.E.		6/19/2026
Print	QA Manager Signature	Date

Review of the PSOP has been performed, and the PSOP still reflects the current practice			
Initials		**Date**	
Initials		**Date**	

PSOP: NOTE TAKING AND FIELD LOGS

1.0 PURPOSE

This purpose of this Project Specific Operating Procedure (PSOP) is to provide programmatic criteria for the content of Environmental Services Field Logs or other appropriate data sheets.

2.0 SCOPE

This PSOP applies to all C.T. Male personnel engaged in note taking and data collection to be recorded on Environmental Services Field Logs or other appropriate data sheets.

3.0 GENERAL

An essential part of any environmental field project is proper documentation. The primary documentation used to record general site data is Environmental Services Field Logs, which describes the progress of field activities and summarizes field measurements. This documentation is necessary to demonstrate that the data are representative and have been obtained according to required procedures. The field logs may be used as evidence in legal proceedings to defend procedures and techniques employed during site investigations and remedial actions. Therefore, it is important that documentation be factual, complete, accurate, consistent, and clear.

4.0 DOCUMENT SOURCES

Field documents may consist of (but are not limited to) the following hardcopy or electronic forms:

- Environmental Services Field Log;
- Site Safety Checklist;
- Test Boring Log;
- Direct Push Exploration Log;
- Test Pit Log;
- Organic Vapor Headspace Analysis Log;
- Monitoring Well Construction Log;
- Daily Calibration Record;
- Groundwater Services Field Log;
- Surface Water Sampling Log;
- Water Level Record;
- Well Low Flow Purging Log;
- Well Purging Log;
- Well Development Log;
- Explosive Gas Sampling Form;
- Inspection of Landfill Post-Closure Inspection Form;
- Soil Resistivity Field Report;
- Report on Infiltration Test;
- Soil Vapor/Air Sample Log;
- Photographs and Photographic Logs;
- Laboratory Chain of Custody Forms;

- Shipping Waybill and Manifest Documents; and
- Other field activity and/or field data documentation.

5.0 RESPONSIBILITIES

5.1 Project Manager

The Project Manager is responsible for ensuring overall compliance with this PSOP. The Project Manager, or designee, is responsible for selecting personnel to record data entries on the field logs and reviewing field logs for completeness.

5.2 Site Personnel

Site personnel are responsible for recording necessary information on the appropriate field forms in a neat and legible manner.

6.0 PROCEDURE

6.1 Environmental Services Field Logs

Environmental Services Field Logs (field logs) will contain lined, consecutively numbered pages. Record the following information on the top of the front page:

- Date;
- Time On-Site/Time Off-Site;
- Project name;
- C.T. Male Associates project number;
- Purpose (i.e., completion of test borings/soil sampling, etc.);
- Weather conditions; and
- Personnel present at the site and site visitors.

Entry of field activities, events, data, and other relevant project task information will be documented daily (at minimum) throughout the course of work. The following minimum requirements must be followed when entering daily activities on the field logs:

- The project name, project number, and date must be recorded at the top of each page;
- The top page corner of each page will be consecutively numbered;
- Entries on the field logs should be preceded with the time written in 24-hour clock format (i.e., 14:00 instead of 2:00pm). The time should be recorded frequently and at the point of events or measurements that are representative of the activity being logged;
- Changes must be made with a single, strike-out line through the deletion. Changes must be initialed and dated. Scribbling or blotting out deletions is unacceptable;

- Entries should be made in waterproof ink unless inclement weather prevents pens from working. Except on site where samples are being collected for PFAS, then a Rite-in-the-Rain pen will not be used;
- Entries must be written clearly and legibly enough so that any reviewer can read and understand the entry; and
- The bottom of each page should be signed or initialed by the author.

Events and observations that should be recorded should include, but are not limited to, the following:

- The field activities/tasks with date and time;
- The location(s) and field conditions in which the field task will be conducted;
- The names and organization(s) of field task staff and/or visitors, including C.T. Male personnel, subcontractors, clients, and regulators;
- Site conditions (upon arrival and departure) and changes in site conditions;
- Current weather and changing weather conditions that might impact field activities;
- Relevant field observations, major task decisions, comments, or other valuable information will be documented throughout the course of site activities. Entries will be as specific and detailed as possible and practical;
- If field datasheets, soil boring log sheets, photographs, sample location coordinates, or other documentation types are specified by a procedure, the information need not be duplicated, but the relevant documentation type and/or forms must be referenced in the field logs and attached to the field logs, if applicable;

- Documentation of field instrument calibration or reference to appropriate field calibration sheets;
- Field map sketches will be drawn with an approximate North arrow and, if possible, approximate scale. If no scale, so state. Boring or sample locations with measurements (swing ties) to at least two (2) fixed objects to locate points for mapping;
- Changes and/or deviations from task protocols (such as sampling procedures) outlined in governing planning documents;
- Reason(s) for noted deviations, and whom the deviation was discussed with and authorized by;
- Problems, downtime, or delays and the reasons for the problem or delay;
- Upgrade or downgrade of personal protective equipment (PPE);
- Equipment make, model, and property numbers or serial numbers used at the site;
- Health and safety monitoring equipment, including calibration procedures and results and actual and background readings;
- Start and end times of sampling;
- Sampling steady-state parameters;
- Decontamination times and methods; and
- Type, amount, and disposal methods used for investigation/remedial action derived wastes.

When samples are collected, the following should be recorded on the log sheets or laboratory chain-of-custody form:

- Sample location and depth;
- Sample identification number;
- Sample date and time;
- Sample methodology;
- Sample type and media;
- Field sampler initials;
- Sample analyses requested;
- Sample preservation type;
- Quality control sample numbers and types;
- Name of individual to whom the samples are relinquished;
- Laboratory service provider in which samples are to be relinquished;
- Shipping service(s) or method(s) used for sample delivery;
- Date and time of shipment; and
- Shipping waybill or manifest number.

6.2 Field Datasheets and Forms

Other data documentation types (including Test Boring/Test Pit Log Sheets, Laboratory Chain-of-Custody Forms, Shipping Waybill and Manifest Documents, and similar documents) are part of the field records. Generally, the use of these documentation types is task-specific and when used should be attached and referenced within the field logs. However, specific data entered on these types of documents will not typically be documented verbatim on the field logs, so document handling and archiving must be performed in the same manner as the field logs.

6.3 Electronic Data Documents

Electronic data documents may consist of photographs; GPS and survey coordinate data, field instrument data, and other electronic data files. Field instruments and tools such as digital cameras, GPS collector/unit, water-quality meters, photoionization detectors (PIDs), pressure-transducers, dust monitors and hand-held computers store data in electronic formats that can be later downloaded and stored electronically for future reference. Take care when retrieving, storing, and managing electronic data. The Project Manager or designee will be consulted for electronic data management instruction before using unfamiliar electronic instrument or tool requiring electronic data retrieval and storage. At minimum, electronic data documents will be managed as suggested below:

- Download electronic data without manipulation. Downloaded data should be in a format that can be reviewed by others that may not have the equipment specific software used to download it.

- After collection, retrieve (download) electronic data from the field instrument daily, or as determined necessary by the Project Manager.

- After successful electronic data document retrieval, store electronic data files at a digital location specifically reserved for that data document type. The data storage device must be reliable and secure. The data will be stored at a location that can be readily accessed by multiple team members (i.e., network project server or file-sharing site).

- Back up electronic data documents in the event of data loss. Backup formats may include, but are not limited to, external hard drives. Whatever data backup format is used, the data backup must be managed for retrieval by the Project Manager and other responsible team members, if necessary.

- Name data files appropriately to easily identify the content and date of collection or download.

- If possible, include the following identifying information in data files:

- Company name (C.T. Male);
- Client and project name;
- Investigation area name;
- Date and time;
- Project number;
- Location(s) of data collection; and
- Other information unique to the kind of data collected.

- Delete data from electronic instrument(s) once successful download is confirmed. This is especially important if equipment is rented, so project data is not available to others not involved with the project.

6.3.1 Photographic Logs

Photographs provide an objective, visual record of site conditions that supplements written field logs. Photographs can support legal defensibility, document site conditions before and after activities, and visually confirm sampling locations, equipment, and observed anomalies. Field photographs should be managed as follows:

- Photographs should capture the intended subject; avoid obstructions, poor lighting, or excessive distance that obscure site conditions. Photographs should include reference points (i.e., building, road, property line, tape measure) to provide context and scale;

- Photographs should be captured from multiple perspectives when possible. Close-up photos can provide detail; moderate distance photos provide context; photos from multiple angles provide additional context and information;

- Sub-surface intrusive work areas should be photographed before, during, and after work is performed to verify the conditions present;

- For privacy purposes, try to avoid photographs with non-C.T. Male personnel visible;
- Upload photographs to the designated project folder promptly, no later than the next day or as directed by the Project Manager. Photographs should be saved using accessible formats (e.g., JPG, PNG files);
- Consider resizing the photographs to reduce their individual file size generally less than 1MB each;
- If directed by the Project Manager, photographs, or a representative portion, should be labelled descriptively, including the date, location and subject in the filename, report, or photo log; and
- When included as part of a deliverable, photo logs shall be created in a PDF format including the file names (i.e. labeled information).

7.0 DOCUMENT CONTROL

At the conclusion of a task or when field logs, datasheets, and/or electronic data documents have been completed, they shall be proofread. Documents will be kept in the project files (hardcopies) and C.T. Male electronic project directory. Project personnel may keep their own duplicate files for reference; however, original documents will be placed in the official project file and scanned into the electronic project directory. Field logs of boring, sampling, and well installation activities will be maintained by the field sampling personnel and submitted to the project manager after the field effort.

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PROJECT SPECIFIC OPERATING PROCEDURE

COLLECTION OF QUALITY CONTROL SAMPLES

PSOP #011

June 18, 2026

Daniel T. Achtyl, P.G.		6/19/2026
Print Name	Technical Reviewer Signature	Date
Jeffrey A. Marx, P.E.		6/19/2026
Print Name	QA Manager Signature	Date

Review of the PSOP has been performed and the PSOP reflects the current practice			
Initials		**Date**	
Initials		**Date**	

PSOP: COLLECTION OF QUALITY CONTROL SAMPLES

1.0 PURPOSE

The purpose of this project specific operating procedure (PSOP) is to describe the procedures used in the collection and handling of field quality control (QC) samples: field blanks, equipment blanks, trip blanks, field (blind) duplicate samples, and matrix spike/matrix spike duplicate samples.

2.0 SCOPE

This procedure applies to all C.T. Male personnel engaged in the collection of quality control samples from various media (water, soil, etc.) for submission to an analytical laboratory for analysis.

3.0 RESPONSIBILITIES

3.1 Project Manager

The Project Manager is responsible for developing the scope of work as it relates to collection of QC samples and is responsible for ensuring overall compliance with this PSOP.

3.2 Field Team Leader/Field Technician

The Field Team Leader/Field Technicians are responsible for ordering sample containers prior to the sampling event and the collection of QC samples.

4.0 EQUIPMENT AND SUPPLIES

The following items are applicable to this PSOP:

- Laboratory provided containers appropriate for the specified media and analysis;
- Appropriate PPE;
- Sample labels;
- Matrix specific sampling devices and equipment; and
- Analyte-free water.

5.0 PROCEDURE

5.1 General

Matrix specific sampling PSOPs should be followed for the collection and preservation of samples. QC samples will be collected and handled in the same manner as the original samples. The frequency of collecting QC samples is generally one per cooler shipped to the laboratory for field blank and trip blank samples; and one set (equipment blank, field duplicate, MS/MSD) per twenty (20) media samples collected; however, project specific requirements may specify alternative sampling frequencies.

5.1.1 Field Blank

Field blank samples are collected on site to check for field and laboratory sources of contamination by exposing a sample of analyte-free water to environmental conditions at the sampling site. Field blank samples are collected by transferring analyte-free water provided by the laboratory from the container it was provided in directly into another one appropriate for the analytical parameter of interest, typically per- and polyfluoroalkyl substances (PFAS) drinking water samples by EPA Method 537.1. Field blanks are listed on the chain-of-custody (COC) along with the associated project samples and the analysis required.

5.1.2 Trip Blank

Trip blank samples are included when collecting aqueous samples for volatile organic compounds (VOC) to check for contamination introduced during sample transport and handling. They are prepared and provided by the laboratory along with empty sampling containers. Trip blank sample containers are not opened in the field, and accompany the VOC samples during collection, storage, and transport to the analytical laboratory. There must be one set of trip blank samples per sample cooler containing VOC samples from the Site. Trip blanks are listed on the chain-of-custody (COC) along with the associated project samples and the analysis required.

5.1.3 Equipment Blank (Rinse Blank)

Equipment blank (or rinse blank) samples are collected on-site to check for sources of contamination that may be introduced during sampling from incomplete decontamination of equipment. Equipment blank samples are collected by pouring analyte-free water provided by the laboratory through/over decontaminated sample collection equipment (e.g., bailer, pump, hand-trowel, etc.) and collecting the rinse water in the appropriate sample container. Decontamination of sample collection equipment should follow C.T. Male's "Equipment Decontamination Procedures" PSOP. Equipment blanks are listed on the chain-of-custody (COC) along with the associated project samples and the analysis required.

5.1.4 Field (Blind) Duplicate

Field (blind) duplicate samples are collected to assess precision associated with sample collection, preservation, and storage, as well as laboratory analysis reproducibility. They are an additional sample collected at the same time and using the same procedures, equipment, and types of containers as the original samples. Field duplicate samples are collected by alternating back and forth between filling the sample containers for the original sample and the field duplicate sample in small increments until both sets of sample containers have been filled to the required level. The field duplicate sample is identified with an alias (e.g., FD-01) and an arbitrary sample collection time on the sample container label and on the COC to avoid alerting laboratories to the duplicated source of the sample. The arbitrary time assigned to the field duplicate sample should be within the span of time that the field technician(s) were on site. Field duplicate samples are submitted to the laboratory for the same analyses as the original/source sample.

5.1.5 Matrix Spike (MS) and Matrix Spike Duplicate (MSD)

Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples are collected to quantify potential bias and analytical precision caused by the sample matrix. This is done by the laboratory and consists of adding (spiking) known quantities of certain compounds to the samples and then analyzing for those compounds to check against the known quantity added. MS/MSD samples are collected at the same time and using the same procedures, equipment, and types of containers as the original samples. MS/MSD

samples are collected by alternating back and forth between filling the sample containers for the original sample and the MS/MSD samples in small increments until all sets of sample containers have been filled to the required level. Typically, three (3) separate sample aliquots are collected for each analysis. One aliquot is analyzed to determine the concentrations in the native/source sample, a second sample aliquot serves as the MS, and the third sample aliquot serves as the MSD. The location where the MS/MSD samples were collected is indicated on the COC so the laboratory knows which sample volumes are to be used for MS/MSD analysis.

6.0 RECORDS

The field team leader/field technicians will document the type and number of QC samples collected during each sampling event on a COC and/or on appropriate field logs or sampling forms.

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PROJECT SPECIFIC OPERATING PROCEDURE

ORGANIC VAPOR MONITORING AND AIR MONITORING

PSOP #014

June 18, 2026

Daniel T. Achtyl, P.G.		6/19/2026
Print Name	Technical Reviewer Signature	Date
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Print Name	QA Manager Signature	Date

Review of the PSOP has been performed and the PSOP still reflects the current practice			
Initials		**Date**	
Initials		**Date**	

PSOP: ORGANIC VAPOR MONITORING AND AIR MONITORING

1.0 PURPOSE

This project specific operating procedure (PSOP) provides guidance for conducting organic vapor monitoring of environmental media, and air monitoring procedures to identify volatile organic compounds (VOCs) and airborne particulates (i.e., dust) during field activities.

2.0 SCOPE

This PSOP applies to all C.T. Male personnel engaged in organic vapor or air monitoring activities.

3.0 RESPONSIBILITIES

3.1 Project Manager

The Project Manager is responsible for identifying the need for organic vapor or air monitoring during the planning stages of a project and updating monitoring requirements as needed if conditions encountered in the field change.

3.2 Field Team Leader/Field Technician

The Field Team Leader/Field Technician are responsible for performing organic vapor and air monitoring.

4.0 EQUIPMENT

The following items are applicable to this PSOP:

- Photoionization detector (PID);
- Flame ionization detector (FID);
- Combustible gas indicator (CGI) and oxygen level indicator;
- Combination Meters and Multi –gas meters (such as PID, CGI, oxygen, and hydrogen sulfide); and
- Dust monitor.

5.0 PROCEDURE

5.1 General

Organic vapor monitoring and air monitoring serve two (2) primary functions:

1. To evaluate organic vapor concentrations in site media.

2. To monitor airborne organic vapor and particulate exposure levels of site workers and the surrounding community.

The use of field instrumentation for volatile organic compounds (VOCs) allows for on-site analytical screening of media samples (e.g. air, water, sediment, and soils). Screening results can be used to identify the presence of VOCs and aid in the selection of samples laboratory analysis.

Ambient/perimeter VOC and particulate monitoring measurements can be used to evaluate exposure levels to site personnel and/or the surrounding community, and as a basis for setting levels of protection for site personnel. As applicable, air monitoring should be conducted according to, and at the frequency specified in, a project-specific HASP. Air monitoring results provide documentation that overexposure has not occurred, and real-time data for determination of whether engineering controls or personal protective equipment (PPE) are needed to control exposure.

The organic vapor and air monitoring instruments that could be used include the following:

- MiniRAE 3000 PID;
- Photovac Micro FID;
- Thermo Scientific TVA 1000 FID/PID;
- MultiRAE Plus Multi-gas meter; and
- DustTrak™ II Aerosol Monitor (Model 8530).

The MiniRAE 3000 PID is the commonly used instrument for organic vapor monitoring. The DustTrak™ II Aerosol Monitor is a direct-reading, aerosol monitor designed to provide real-time measurement of airborne dust and particulate concentrations.

5.2 Equipment Calibration

To ensure that air monitoring equipment will be calibrated and remain operable, calibrate air monitoring equipment daily, or per the manufacturer's recommendation, before use. PIDs and FIDs are typically calibrated with 100 parts per million (ppm) isobutylene calibration gas. The PID or FID must be capable of ionizing the expected contaminants of concern. Particulate monitors are typically zero calibrated utilizing a filter. If instrument readings appear to be irregular or drifting, recalibrate instruments before collecting additional data. Flag apparent instrument drift or erratic instrument readings on Environmental Services Field Logs. If the instrument cannot be recalibrated, take the instrument out of service and replace it with a unit that is functioning properly.

Examples of calibration information to record on Environmental Services Field Log and/or Organic Vapor Headspace Analysis Log include:

- Calibration Date and Time;
- Instrument Type;
- Lamp Type (PID only);
- Calibration gas type, canister lot number, and expiration date.
- Zero gas calibration reading, if used;
- Calibration gas (span gas) reading;
- Zero filter calibration reading (dust monitor);
- Ambient weather condition (for example, temperature and wind direction);
- Operator's initials; and
- Other notes and comments.

5.3 Organic Vapor Monitoring with a Photoionization Detector

The following procedures are specific to the MiniRAE 3000 PID instrument; however, they are generally applicable to other manufacturer's instruments, and the precautions to consider are the same. Manufacturer specific manuals should be reviewed and understood before instrument use.

The MiniRAE 3000 PID is a portable, non-specific vapor/gas detector employing the principle of photoionization to detect a wide variety of VOCs. Use a PID during

intrusive activities (i.e., test borings, soil excavation, etc.) where there is potential for the presence of petroleum or VOC contamination in accordance with the project-specific HASP.

Calibrate the PID each day, following the calibration specifications of the manufacturer and before the start of field activities. Perform instrument calibration using isobutylene calibration gas of known concentration; 100 ppm isobutylene calibration gas is preferred.

The following provide additional details about the PID:

- The MiniRAE 3000 PID is reported to operate continuously for up to 16 hours before requiring battery recharging, but charging on a daily basis is preferred.
- Elevated water vapor concentrations experienced in high humidity will foul the PID and may result in erroneous readings. If high humidity problems persist, dry the sensor module or bring instrument into an air-conditioned environment with reduced humidity.
- MiniRAE 3000 PID readings are relative to the calibration gas. After calibration with 100 ppm isobutylene, the MiniRAE 3000 PID will respond directly in units equivalent to isobutylene.
- Most VOCs will be detected by the MiniRAE 3000 PID. However, it cannot distinguish between isobutylene and other ionizable compounds. A reading of 10 ppm indicates ionizable compounds that are present have generated an ion current equivalent to 10 ppm of isobutylene. The reading is actually 10 ppm isobutylene equivalent units.
- The lamp window must be periodically cleaned according to the instructions in the manual provided with the instrument.

5.3.1 Organic Vapor Monitoring of Site Media

Monitoring organic vapors in site media can help identify potentially contaminated areas to assist with site characterization. Organic vapor monitoring is typically conducted using a PID or FID for analytical screening of soil by screening soil cores,

test pits, or soil headspace. The PID or FID can also be used to evaluate organic vapors inside monitoring wells and excavations.

Knowing the photoionization potential (PIP) is necessary in determining the appropriate instrument to use when conducting organic vapor screening. As applicable, review the quality assurance project plan (QAPP) and manufacturer's manual to determine that the proper instrument has been selected for the contaminate vapors of interest. A 10.6 eV lamp may be used if expected compounds have a PIP less than or equal to 10.6 eV. If an expected compound at a site has a PIP less than or equal to 11.7 electron volts (eV), it is possible to use a PID equipped with an 11.7 eV lamp. If the ionization potential is greater than 11.7 eV, and FID is preferred.

5.3.2 Soil Core Screening for Organic Vapors

Soil cores are typically obtained during drilling activities and should be screened for the presence of organic vapors using a PID or FID. Immediately following extraction and opening of a lithologic core sample during drilling, screen the core by slowly passing the tip of the PID or FID along the lithologic core (very close to the core, but not touching it). Record readings along the soil core in 2-foot increments and additionally target zones of high odor or staining. Record readings on an Organic Vapor Headspace Analysis Log.

5.3.3 Test Pit Soil Screening for Organic Vapors

Surface soil, newly exposed soil, soil stockpiles, and excavation surfaces can be screened for the presence of organic vapors using a PID or FID. Before screening newly exposed soil, soil stockpiles, and excavation surfaces, dig a sample test pit at least six (6) inches deep into the soil using a clean, decontaminated sampling tool such as a stainless-steel spoon and/or shovel. For soil exposed to the atmosphere for greater than 1 hour, dig at least 12-inch test pit before soil screening. When digging, minimize the diameter of the test pit, if possible, to reduce advection of soil vapors out of the test pit. Immediately following digging, insert the sample tip of the PID or FID into the test pit, approximately 1 to 2 inches from the bottom of the test pit, taking care not to foul the sample tip with soil particulates or uptake water droplets. Use of a particulate/moisture filter is recommended. Record the maximum detector

reading as the final sample concentration on an Organic Vapor Headspace Analysis Log.

5.3.4 Soil Headspace Screening for Organic Vapors

Headspace organic vapor monitoring involves the measurement of organic vapors emitted from soil samples in a sealed container using a PID or FID. The results generated by this method are qualitative to semi-quantitative and are limited to organic compounds that readily volatilize. Soil can be collected for headspace screening from various sources including lithologic soil cores during drilling, soil stockpiles, or from excavations and test pits. For soil cores, soil headspace samples are typically collected in 2-foot intervals or at zones where contamination is expected or observed using new, re-sealable 1-quart Zip-loc™ (or similar) plastic bags. Bags are not to be reused.

To begin headspace screening samples, collect a representative portion of soil and immediately place it inside the bag so that the plastic bag is about one-third to one-half full; then immediately seal the bag completely. Larger plastic bags should not be used to prevent vapor diffusion and stratification effects that may significantly affect the sample. Samples from soil cores, excavations, or soil piles must be immediately transferred into the sample bag once the soil core is opened, or the soil sample is uncovered and exposed to the atmosphere.

Shake the bag for 15 seconds and let it rest for approximately 10 minutes but no longer than one hour. Ideally, the temperature of the headspace should be warmed to at least 40 degrees Fahrenheit (°F) (5 degrees Celsius [°C]) before testing. If the soil and/or outdoor temperature is below 40°F, placing the headspace sample in a warm location at approximately room temperature (that is, indoors) may be necessary to slowly warm the sample to an acceptable temperature. Before testing, shake the bag for another 15 seconds to further assist volatilization.

Insert the sample tip of the PID or FID into the bag at a point approximately one-half the headspace depth, taking care not to foul the sample tip with soil particulates or uptake water droplets. The sample bag insertion opening must be minimized to reduce the potential for vapors from escaping. The bag opening can be made with the probe tip.

After probe insertion, record the maximum reading as the final sample concentration on the Organic Vapor Headspace Analysis Log. The maximum detector reading normally occurs between 2 and 5 seconds after probe insertion, but if reading is rapidly climbing, wait longer.

If erratic instrument response occurs at high VOC concentrations or conditions of elevated headspace moisture are encountered, record the instrument behavior along with the maximum detected reading(s). Under these conditions, headspace data may be discounted.

5.3.5 Screening for Organic Vapors in Monitoring Well Casing

When conducting groundwater monitoring and/or sampling, the air inside the monitoring well casing may be screened for organic vapors using a PID. To screen for organic vapors inside the monitoring well casing, stand next to but not over the well approximately arms reach away from the well. Slowly open the well cap and immediately check for organic vapors in the well casing by positioning the tip of the PID at the top of the open well casing. Record this reading on the Groundwater Services Field Log or other appropriate field log.

5.4 Air Monitoring for Potential Contaminant Exposure

Air monitoring for potential exposure to airborne contaminants is typically conducted using a PID, FID, CGI (measuring oxygen level and explosive atmosphere), MultiRAE Plus meter (measuring oxygen level, explosive atmosphere, PID, and hydrogen sulfide), and/or dust/aerosol meter. Air monitoring is typically conducted at one or more of the following areas for the reasons given below:

- At the source. Monitoring at this location gives a worst-case assessment of the situation. If concentrations at the source are below the action levels, then a potential exposure problem is unlikely.

- In the breathing zone. Monitoring should be conducted in the breathing zone to determine the actual conditions that personnel may be exposed to. Since different tasks may have different potential exposures, monitoring should be conducted for the worst-case scenario for each task.

- At the perimeter. Perimeter monitoring is used to document background conditions and that the surrounding community is not being adversely affected by the operations. This type of monitoring is typically warranted as a means of documenting that no off-site releases occur.

- Conduct monitoring before entering a potentially hazardous area, according to requirements of the project-specific HASP.

5.4.1 Monitoring of Oxygen, Combustible, Hydrogen Sulfide Gas, and Airborne Particulates

Instruments typically used to monitor oxygen levels, combustible atmosphere, hydrogen sulfide, or airborne dust include the MultiRAE plus meter (measuring oxygen level, explosive atmosphere, PID, and hydrogen sulfide), CGI (measuring oxygen level and explosive atmosphere), or dust/aerosol meter.

Depending on the requirements in a site-specific HASP; oxygen, combustible, hydrogen sulfide gas, and airborne dust measurements may be made during field activities to ensure that breathing atmospheres do not become hazardous.

Entry into any confined space or any other area where hazardous atmospheres may be a concern must be conducted in accordance with a site-specific HASP and work plan. Always consult the project PM and/or Health and Safety Officer with any questions or concerns regarding instrument monitoring and work situations involving confined spaces and/or potentially hazardous atmospheres.

5.4.2 Monitoring of Oxygen Level

The oxygen level in a confined space or other area of little to no air circulation is of prime concern to anyone entering. Removal of oxygen by combustion, reduction reactions, or displacement by other gases or vapors may be a hazard. Likewise, elevated levels of combustible or toxic gases may also pose a hazard to health. Elevated levels of oxygen may also result in an explosive hazard. MultiRAE Plus meters are commonly used to monitor oxygen levels.

Because some instruments do not operate properly without sufficient oxygen and others can cause explosions, the monitoring of oxygen will be the initial concern

when working in an environment where there is potential for oxygen levels to be below 19.5% or greater than 23%. The normal oxygen concentration at sea level is 21%.

5.4.3 Monitoring for Explosive Atmosphere

The MultiRAE Plus meter is commonly used to monitor for flammable and explosive atmospheres. Conduct monitoring for flammable or explosive environments at the same locations as monitoring of oxygen levels. Work can proceed as normal if the air conditions are less than 10% of the LEL. If the air conditions are greater than 10% of the LEL, work is to stop immediately. Evacuate the site or implement engineering controls to reduce the LEL to acceptable levels.

5.4.4 Monitoring for Toxic Gases

The MultiRAE plus meter and Drager colorimetric tubes are commonly used to monitor for toxic gases. Toxic gases include organic and inorganic vapors and gases.

5.4.5 Monitoring of Airborne Particulates (Dust)

The instrument that is commonly used to measure airborne dust is the DustTrak™ II Aerosol Monitor (Model 8530). The monitor will be used during ground intrusive activities and is used to measure airborne particulate (dust) concentrations at the perimeter of the work area for protection of site workers and the surrounding community.

Non-volatile contaminants (such as metals or polychlorinated biphenyls [PCBs]) can become airborne as particulates and typically require monitoring where there is potential for dusty environments. Total dust action levels are discussed in a project-specific HASP or generic CAMP.

6.0 RECORDS

Record PID field measurements on Environmental Services Field Logs or other applicable logs. Dust monitoring data is recorded electronically and is downloaded and stored in electronic format.

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PROJECT SPECIFIC OPERATING PROCEDURE

EQUIPMENT DECONTAMINATION PROCEDURES

PSOP #015

June 18, 2026

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Print Name	Technical Reviewer Signature	Date
Jeffrey A. Marx, P.E.		6/19/2026
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Review of the PSOP has been performed and the PSOP still reflects the current practice			
Initials		**Date**	
Initials		**Date**	

PSOP: EQUIPMENT DECONTAMINATION PROCEDURES

1.0 PURPOSE

The purpose of this project specific operating procedure (PSOP) is to provide step-by-step procedures for field decontamination of environmental sampling equipment and personal protective equipment (PPE). Decontamination of equipment and PPE is performed so that sample cross-contamination, human-health exposure, and contamination transport are minimized.

2.0 SCOPE

This procedure applies to all C.T. Male personnel engaged in collecting environmental samples or operating in environments in which hazardous or contaminating substances are suspected to be present.

3.0 RESPONSIBILITIES

3.1 Project Manager

The Project Manager is responsible for ensuring that field staff are properly trained and overall compliance with this procedure.

3.2 Field Team Leader/Field Technician

The Field Team Leader/Field Technician are responsible for following these procedures or delegating tasks to Field Technicians to perform decontamination tasks. The Field Team Leader documents that subcontractors are taking necessary steps to decontaminate field equipment before and throughout field activities. The Field Team Leader also documents that decontamination waste and PPE are disposed of properly.

4.0 EQUIPMENT AND SUPPLIES

The following is a list of equipment and materials that may be needed to perform decontamination:

- Concrete or synthetic material-lined decontamination pad;
- HDPE sheeting/membrane to serve as secondary containment for liquids;
- Brushes and flat-bladed scrapers;
- Garden-type water sprayers (without oil-lubricated, moving parts);
- High-pressure washer;
- Portable steam cleaner;
- Sump or collection system for contaminated liquid;
- Wash basins and buckets;
- Spray and rinse bottles;
- Potable contaminant free water, deionized water, laboratory-grade water and laboratory grade detergent (Alconox);
- Plastic waste bags;
- Leak-tight liquid waste containers (55-gallon drums or similar); and
- Bulk solid waste containers (super-sacks, 55-gallon drums, or similar);

5.0 PROCEDURE

5.1 General

Decontamination consists of physically removing contaminants from the surface of sampling equipment and materials potentially exposed to those contaminants. A decontamination plan should be based on conservative, worst-case scenario, using available information. The plan can be modified, if justified by supplemental information. Initially, the decontamination plan assumes that protective clothing and equipment which leave the exclusion zone are contaminated. Based on this assumption, a system is established to wash and rinse non-disposable equipment and dispose of disposable equipment.

The type of decontamination procedures and solutions needed at each site should be determined after considering the following site-specific conditions:

- The type of equipment to be decontaminated;
- The type of contaminant(s) present;
- Extent of contamination; and
- Potential human, environmental, and ecological risk scenarios.

Decontaminate non-disposable sampling equipment used at the site before activities begin, after each sample is collected, and when leaving the exclusion zone. Decontaminate drilling and excavation equipment before activities begin, between each investigation/remedial action location, and when leaving the exclusion zone. Materials and solutions used for decontamination procedures will be non-hazardous and will not be used if they could potentially contaminate samples (i.e., acids and solvents).

5.2 Decontamination Area

Set up a decontamination zone adjacent to the exclusion zone for drill rigs, excavators, other sampling equipment, and personnel. Select and set up the decontamination area so that decontamination fluids and soil waste can be managed in a controlled area with minimal risk to the surrounding environment. The decontamination area should be large enough to accommodate the largest piece of equipment. In the case of large

decontamination areas (for example, for hollow stem auger and excavator bucket decontamination), line each area with heavy-gauge plastic sheeting with appropriately bermed/sloped sides to channel wastes to a collection system. An example of a typical collection system would be a low area/sump in the decontamination area where decontamination fluids would collect and subsequently be pumped via a sump pump and hose into an appropriate storage container (i.e., 55-gallon drum). Solids that collect in the decontamination area should be removed via shovel or equal means and transferred into an appropriate storage container (i.e., 55-gallon drum). Decontamination areas will be constructed to mitigate overspray while performing decontamination activities.

Smaller decontamination tasks, such as sampling equipment (i.e., trowels, shovels, split-barrel sampler, macro-core sampler, etc.) decontamination, may take place at the sampling locations. In this case, required decontamination supplies and equipment should be mobilized to the site and smaller decontamination areas for personnel and portable equipment will be used as necessary. These locations will include basins, buckets and/or tubs to capture decontamination investigation/remediation-derived waste, which will be transferred to larger containers as necessary.

5.3 Decontamination Procedures

5.3.1 Personnel and Personal Protective Equipment

Decontamination of personnel and PPE reduces the potential for human-health exposure to contaminants via ingestion, absorption, and inhalation. Personnel and PPE will be decontaminated as outlined in the site-specific HASP.

5.3.2 Sampling Equipment

Conduct consistent decontamination of sampling equipment to maintain the quality of the samples collected. Decontaminate equipment that comes into contact with potentially contaminated samples. Disposable equipment intended for one-time use that is factory wrapped generally does not need to be decontaminated before use, unless evidence of contamination is present. Disposable equipment, such as disposable bailers and spoons is preferred over reusable equipment; use wherever appropriate. Decontaminate

sampling equipment, including split-spoons and macro-core samplers, hand augers, reusable bailers, spoons, trowels, shovels, and pumps used to collect samples before each use, before sampling at a new sampling location, and after sampling is complete. Take the following steps to decontaminate non-dedicated sampling equipment:

- Decontamination personnel will wear the appropriate PPE as described in the site-specific HASP.
- The sequence of decontamination will be as follows:
    - Remove gross contamination (such as pieces of soil) from equipment at the sampling site.
    - If heavy petroleum residuals are encountered during sampling, an appropriate solvent such as methanol will be used to remove petroleum residues from sampling equipment, but should be kept to a minimum. If a solvent is used, it must be properly used, collected, stored, and disposed of according to the site-specific HASP. If heavy petroleum residuals are not encountered, this step should be omitted.
    - If PCB oils are observed on sampling equipment an appropriate solvent, such as Mycelx, will be used to remove liquid PCB residues from sampling equipment. If a solvent is used, it must be properly used, collected, stored, and disposed of according to the site-specific HASP. If PCB oils are not encountered, this step should be omitted.
    - Wash water-resistant equipment thoroughly and vigorously with potable water and laboratory-grade detergent such as Alconox and use a bristle brush or similar tool to remove remaining residual contamination. This shall be done within a containment tub or similar.
    - Rinse equipment thoroughly with potable water (1st rinse).
    - If required, rinse equipment thoroughly with distilled or deionized water (2nd rinse).

- Additionally, as needed for sensitive field instruments, rinse equipment with distilled, deionized, or American Society for Testing and Materials (ASTM) reagent grade water (3rd rinse).

- Air dry at a location where dust or other fugitive contaminants may not contact the sample equipment. Alternatively, wet equipment may be dried with a clean, disposable paper towel to assist the drying process. Equipment should be dry before reuse.

- If the equipment is not used soon after decontamination, it should be covered or wrapped in new, poly sheeting to protect the decontaminated equipment from fugitive contaminants before reuse.

- Store decontaminated equipment at a secure, unexposed location out of the weather and potential contaminant exposure.

- Depending on site conditions and the number of samples collected, rinse and detergent water may need to be replaced with new solutions between borings or sample locations.

5.3.3 Groundwater Sampling

Proper decontamination between wells is necessary to avoid introducing contaminants from the sampling equipment. For peristaltic pumps, replace the pump head tubing after sampling each well. If sampling with pumps such a submersible, bladder, or similar pump in which mechanisms of the pump come in direct contact with contaminated water, or sampling with a reusable stainless steel bailer, decontaminate the pump or bailer. The following steps will be used for pumps and bailers contaminated with dissolved phase contamination only:

1. Wash the exterior of the pump or bailer and associated cable thoroughly and vigorously with potable water, or filtered water where PFAS is a contaminant of concern, containing Alconox detergent. Washing will be completed using a dedicated wash bristle brush or similar.

2. Place the pump into clean potable or filtered water wash basin/reservoir containing Alconox making sure that the pump intake is fully submerged and the pump outlet is allowed to flow directly back into the wash reservoir. Set the pump to a very low flow rate and turn the pump on, allowing the wash water to re-circulate through the pump mechanism for a minimum of 5 minutes. Disregard this step for reusable bailers.

3. Rinse the pump or bailer by repeating Steps 1 and 2 using potable water, a dedicated rinse bristle brush, and a rinse basin/reservoir containing only potable water (1st rinse).

4. If required, perform an additional rinse of the pump or bailer by duplicating Step 3 using distilled, deionized, or ASTM reagent grade water (2nd rinse).

5. Dry off excess water with a clean, disposable paper towel or allow to air dry at a location where dust or other fugitive contaminants may not contact the sample pump or bailer.

If the pump or bailer is used to sample groundwater containing non-aqueous phase liquid (NAPL) or other heavy petroleum contamination, dismantle the equipment per the manufacturer's guidelines and decontaminate the interior and exteriors surfaces of the pump or bailer using the wash, rinse, and dry steps outlined above. If significant heavy petroleum residue is encountered during decontamination, use an appropriate solvent such as methanol to remove petroleum residues from pump or bailer surfaces. This should be kept to a minimum. If a solvent is used, it must be properly used, collected, stored, and disposed of according to the project-specific HASP. If heavy petroleum residuals are not encountered, omit this step.

5.3.4 Measurement Devices and Monitoring Equipment

For water quality instruments, oil-water interface indicators, water level indicators, continuous water level data-loggers, and other field instruments that have the potential to come into contact with site media, at a minimum, wash with dilute laboratory-grade detergent (Alconox) and rinse with potable and distilled/deionized water before and after each use using a similar procedure as discussed in Section 5.3.2.

5.3.5 Drilling and Subsurface Soil Sampling Equipment

Drilling equipment and associated materials will be decontaminated by the drilling contractor prior to drilling operations and between borings as outlined in the work plan. Decontaminate tools used for soil sampling (i.e., split-spoon and macro-core samplers) before and between collecting samples. Thoroughly clean external and internal surfaces of drilling equipment (that is, drill bits, auger, drilling stem, and hand tools) before beginning drilling operations and between borings using the following basic sequence:

- Remove as much gross contamination as possible off equipment at the sampling site.
- Wash equipment thoroughly and vigorously with high-temperature potable water using a high-pressure washer and/or steam cleaner, if possible. If steam cleaning is not going to be used it will be outlined in the work plan. A bristle brush is also suggested to remove persistent gross contamination.
- Rinse equipment thoroughly with potable water (1st rinse).
- If required, rinse equipment thoroughly with filtered water (2nd rinse), when PFAS are contaminants of concern.
- Air dry at a location where dust or other fugitive contaminants may not contact the sample equipment. Equipment should be dry before reuse.
- Store decontaminated equipment at a location away from potential exposure from fugitive contamination.

5.3.6 Decontamination of Earthwork Equipment

Wash earthwork equipment (such as excavators, backhoes, and trucks) with high-pressure potable water and/or filtered water, if possible, before leaving a contaminated area, using similar steps as outlined in Section 5.3.5.

Portable steam-cleaners and hand washing with a brush and detergent, followed by a potable water and filtered water rinse, can also be used. In some instances, tires and tracks

of equipment may only need to be thoroughly brushed with a dry brush. Take particular care with the components in direct contact with contaminants, such as tires and excavator buckets. Earthwork equipment (or localized part) that may come in direct contact with analytical samples (i.e., sample collection of soils in direct contact with the excavator bucket) must be thoroughly decontaminated before excavation activities and between sample locations.

5.4 Investigation/Remediation-Derived Wastes

Depending on the contaminant, potentially hazardous investigation/remediation-derived wastes (such as wash water or rinsate solutions) will be contained in 55-gallon drums and staged in a designated waste storage area.

6.0 RECORDS

Sampling personnel will be responsible for documenting decontamination of sampling, excavation and drilling equipment. Record information on Environmental Services Field Logs. The information entered on the Environmental Services Field Logs concerning decontamination should include the following, as applicable:

- Decontamination personnel;
- Decontamination solutions used (i.e., Alconox, distilled water, etc.);
- Date and time (start and end);
- Location of decontamination;
- General decontamination methods, tools used, and observations;
- Manufacturer names and lot numbers of decontamination solutions;
- Location and amount of decontamination investigation/remediation-derived waste collected, stored, and/or disposed;
- Identification number, date, sampling area, and information of stored decontamination investigation/remediation-derived wastes; and
- Decontamination investigation/remediation-derived waste spills or releases and associated corrective actions.

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PROJECT SPECIFIC OPERATING PROCEDURE

MONITORING WELL INSTALLATION

PSOP #016

June 18, 2026

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Review of the PSOP has been performed and the PSOP still reflects the current practice			
Initials		**Date**	
Initials		**Date**	

PSOP: MONITORING WELL INSTALLATION

1.0 PURPOSE

This (PSOP) provides the methodology for installing and constructing groundwater monitoring wells.

2.0 SCOPE

This PSOP applies to all C.T. Male Associates personnel and subcontractors engaged in installation and construction of groundwater monitoring wells.

3.0 RESPONSIBILITIES

3.1 Project Manager

The Project Manager will develop or direct the development of a work scope that includes the specifics of the well design and installation. The Project Manager verifies that monitoring well installation procedures comply with this PSOP.

3.2 Field Team Leader/Field Technician

The Field Team Leader/Field Technicians are responsible for knowing the requirements for well installations and maintaining adequate documentation of the installation process and materials used to demonstrate that the well has been properly installed.

4.0 EQUIPMENT AND SUPPLIES

The following are equipment and supplies applicable to this PSOP:

- Drill rig;
- Well casing;
- Well screen;
- Filter pack;
- Annular seals;
- Well protective enclosure;
- Field logs; and
- Monitoring Well Construction Logs.

5.0 PROCEDURE

5.1 General

Data collected from monitoring wells supports various site characterization objectives, including delineation of the nature and extent of contaminant plumes, development of a conceptual model of the subsurface lithology, assessment of aquifer properties, and development of a long-term monitoring network to detect trends in site groundwater elevations and contaminant concentrations. Wells installed for each of these purposes must satisfy different requirements and may require different strategies for well design and installation. Representative groundwater samples and groundwater level measurements depend upon proper monitoring well design and construction, which should reflect anticipated contaminant types and concentrations, project objectives, and site conditions. Selection of monitoring well type, construction materials, and drilling method is commonly a site-specific determination. As applicable, well design and installation must prevent the introduction of surface contaminants into the groundwater and prevent the transfer of groundwater or contaminants between stratigraphic intervals within the well borehole or along the well annulus. Do not install monitoring wells in locations where they are subject to periodic or seasonal inundation by floodwaters, unless the well has special watertight construction. Protect monitoring wells from site specific hazards such as soil erosion, soil settlement, shrink-swell soil conditions, frost heaving of soils, damage by vehicles or heavy equipment.

Drilling techniques commonly used for monitoring well installation include hollow-stem auger, flush joint casing, direct push, and Roto-sonic (sonic) systems.

Hollow stem auger and flush joint casing drilling is typically used to install 2- to 4-inch diameter (or greater) groundwater monitoring wells or when consolidated geologic conditions are expected. The drill rig is typically mounted on a heavy-duty truck or self-propelled by an all-terrain mechanized track system.

Sonic drilling is typically used for soil sampling in deep overburden or the installation of deep wells and/or bedrock wells 200-500 foot depth (or more). The wells are typically 2 to 4-inch diameter (or greater). The sonic rig is a standalone motorized drilling vehicle.

Direct-push drilling is typically used for soil sampling in unconsolidated lithologies and to install 0.75- to 1.25-inch diameter micro-wells. The drill rig is typically mounted on a heavy-duty truck or is self-propelled by an all-terrain mechanized track system.

Micro-wells can use pre-packed or non-pre-packed screens for installations in small-diameter direct push system boreholes.

Successful installation of a well requires that the procedures for installing each component of the well are followed and well documented. There are nine essential components of a well installation:

- Well casing;
- Well screen;
- Filter pack;
- Annular seals (lower and upper surface seals);
- Surface completion;
- Well protection;
- Field logs (including description of soil lithology and water level observations);
- Monitoring Well Construction Logs; and
- Records Management.

Figure 1 on the following page illustrates the design of a typical groundwater monitoring well.

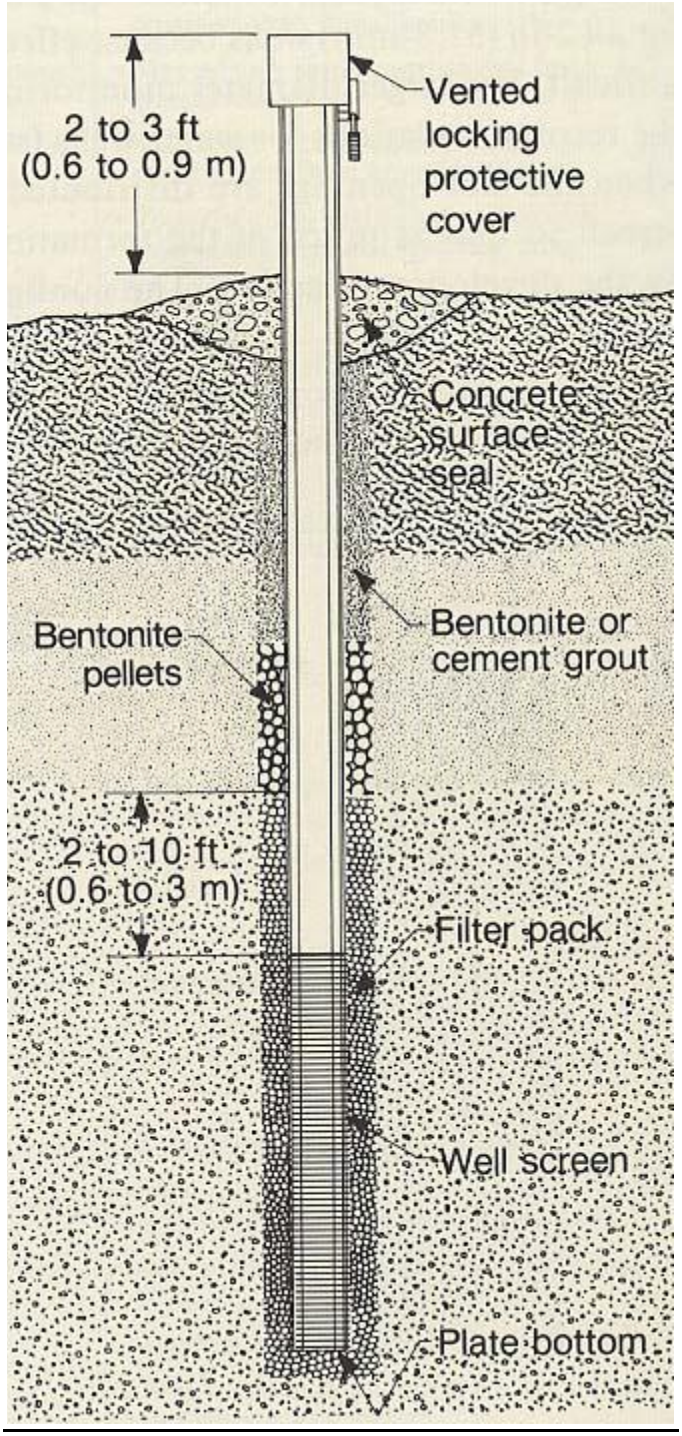


Figure 1. Typical Monitoring Well (Driscoll, 1986)

Installation of monitoring wells will be performed under the direct supervision of a qualified geologist, engineer, or other professional. Permanent monitoring wells should

be constructed in accordance with ASTM Standard D5092: Standard Practice for Design and Installation of Groundwater Monitoring Wells.

A monitoring well is generally composed of a well casing, well screen, filter pack, and annular seal. Monitoring wells will be installed in open boreholes advanced by a drill rig. Soil borings should be advanced until the desired depth is obtained, typically when the subsurface soil demonstrates saturated soil conditions. Once the desired borehole depth is obtained, all drill tooling will be removed from the borehole and the monitoring well will be installed. The diameter of the boreholes will be sufficiently larger than the outside diameter of the casing and screen. This allows for proper installation of materials within the annular space.

The following general guidelines will be followed to properly complete each monitoring well to the desired depth:

1. Properly decontaminate well construction materials before installation, or use new clean materials.

2. Prevent contamination when joining casings and attaching the screen.

3. Install the filter pack into the annulus to a minimum of 2 feet above the top of the screen.

4. Use bottom caps or end plugs.

5. Use permanent or temporary surface casing if contamination or sloughing is a potential issue.

6. Apply filter packs with a tremie pipe or similar method (unless using a pre-packed filter).

7. After installation, "sound" the filter pack for proper placement.

8. Place a fine-grain sand filter 0.5 to 2 feet thick at the top of the filter pack and below the annular seal to help prevent infiltration of bentonite into the filter pack.

9. Apply bentonite pellets or granules to seal the annular space by pouring them freely or through a tremie pipe.

10. If the well is 40 feet or greater in depth, pump grout or slurry into the annular space by using a tremie pipe.

11. For wells less than 40 feet deep, pour grout or slurry freely into the annular space, with or without the use of a tremie pipe.

12. If more than 10 feet of standing water is present, use a tremie pipe to install neat cement and bentonite-cement grouts.

13. Submerge the end of the tremie pipe in the sealing material when installing a slurry or grout.

14. When using a slurry or grout, allow 24 hours between installation of the annular space seal and installation of the protective pipe cover. Fill any settlement in the annular space seal before installing the protective cover.

15. Install a cement surface seal at the ground surface.

5.1 Well Casing and Well Screen

5.1.1 Well Casing

The well casing allows access to groundwater from the ground surface. Typically, 5 to 10 foot sections of well casing with threaded ends are used rather than joining sections together with couplings and glue to eliminate the introduction of adhesive contaminants into the groundwater. Threaded couplings should have O-rings to complete the seal, and the well casing should be flush on the inside.

Monitoring wells are commonly constructed using 1 to 2 inch diameter Schedule 40 polyvinyl chloride (PVC) casing. Deeper wells, or wells that need large, dedicated pumps or tubing, may require 4-, 6-, or 8-inch-diameter casing.

5.1.2 Well Screen

The well screen is the part of the well that allows groundwater to enter into the monitoring well and allows access to the aquifer. Determining the slot size and well screen length characteristics of a well screen depends on the purpose of the monitoring well and aquifer characteristics. The proper slot size of the well screen should be determined based upon the filter pack selected for the monitoring well and the

formation material. Monitoring wells typically installed within unconsolidated soil use a 10-slot (0.010-inch) well screen with a No. 20-40 silica sand pack. Screen slots will be sized to prevent 90% of the filter pack from entering the well. Monitoring wells will be constructed of commercially manufactured, machine-slotted well screens.

The type of well screen and slot size controls the amount of open area in a well intake. In addition, the depth of the screened interval and the well screen length can affect the water quality and hydraulic characteristic results. Minimize the length of the well screen to avoid dilution during sampling. Increased open area in the monitoring well screen allows effective development and easy flow of water from the formation into the well. The well screen depth and length are determined on a site-specific basis in consideration of water table variations, site stratigraphy, expected contaminant behavior, and groundwater flow.

Typically, well screens are 1 to 10 feet in length, but sometimes equal or exceed 20 feet. Conventional monitoring well screens are typically 5 or 10 feet long and as applicable may be installed with a portion of the screen above the high water table to allow for seasonal water table fluctuations.

5.1.3 Materials

A variety of construction materials are used for the well casings and well screens. The material used for well screens is generally selected based on the same guidelines used for selecting well casing. There are many different casing materials used in design of a monitoring well; thermoplastic materials (such as PVC) and stainless steel are the most widely used.

5.1.4 Installation Procedures

The following general procedures should be followed when installing well casings and well screens:

- Keep the well casing sealed in plastic until it is ready to be installed into the borehole.
- Carefully assemble and install well casings and screens to prevent damage to the sections and joints.

- Sections of well casing and screen must be mechanically connected, such as flush threading. Use of glue or solvents to connect or seal casing is not preferred.
- Secure an end cap at the bottom of the well screen before installing section(s) of well screen into the well boring.
- If using pre-pack well screens, take care to not tear or damage the outer fabric or screen holding the pre-pack filter sand to the well screen.
- Install the well casing and well screen straight and plumb and centered within the middle of the borehole.
- Install the filter pack from the bottom of the borehole to at least 2 feet (up to 5 feet) above the top of the well screen. At locations that have shallow groundwater, the filter pack can be placed to extend to at least 1 foot above the top of the screen.
- During installation, place a cap on top of the casing to prevent well materials from entering the well casing.
- A completed monitoring well should be sufficiently straight to allow passage of pumps or sampling devices.
- Document the actual quantities of materials used in the well installation and the condition of well materials on the Monitoring Well Construction Logs.

5.2 Filter Pack

The well screen of each monitoring well should be surrounded by permeable, coarse-grained sand known as the filter pack. Fill the annular space surrounding the well screen with a filter pack of uniform-grain-size sand that is coarser and has a higher permeability than the natural, surrounding formation. The filter pack should allow groundwater to flow freely into the well from adjacent formation material and minimize or eliminate fine-grain material from entering the well. The filter pack should extend above the well screen, typically no less than 2 feet.

5.2.1 Materials

Filter pack materials must be poorly graded (well sorted) to provide good permeability and hydraulic conductivity of the materials near the screen. The filter pack material should be clean, chemically inert, and well-rounded siliceous material and should be slightly coarser than the surrounding formation. Using coarser material increases the effective well diameter.

The sand or gravel used for filter packs should be of uniform size, be hard and durable, and have an average specific gravity of 2.50 or greater. The filter pack material should be obtained from known clean sources and should be well washed and free of clay, dust, and organic matter. No more than 5 percent of the sand or gravel should be soluble in hydrochloric acid.

Filter pack material should meet the National Sanitary Foundation (NSF) standards and be packaged in properly sealed and marked packages. Record the NSF label information and any associated lot or identification numbers on the Monitoring Well Construction Logs. The filter pack is designed for the anticipated and tested grain size distribution in the screened formation and the size of well-screen openings. The filter pack should have a grain size distribution and uniformity coefficient compatible with the formation materials and the screen. The filter pack must not extend across more than one water-bearing unit (or aquifer). Install the filter pack in all wells (deep or shallow) in a manner that minimizes bridging and void spaces in the filter pack. Any open annular space outside of a pre-pack filter should be filled to the maximum extent practical with additional filter pack material, as previously described. Natural collapse can also be allowed to fill annular space around a pre-pack filter.

5.2.2 Installation Procedures

The following procedures should be followed to optimize the installation of the filter pack and the quality of the well:

- Calculate the volume of the well annulus (that is, the filter pack required), and document on the Monitoring Well Construction Log the type and volume of the filter pack material installed.

- Record on the Monitoring Well Construction Log the National Sanitary Foundation label information and any associated lot or identification numbers from the filter pack material.

- Document that the drilling contractor periodically measures the filter pack during installation by using a sounder or weighted measuring tape to confirm uniform placement and prevention of bridging.

- Document that the drilling contractor measures the depth of the top of the filter pack to verify the thickness of the pack and to confirm proper depth placement above the well screen (at least 2 feet above the screen).

- Document that the filter pack does not extend into any aquifer other than the aquifer to be monitored.

5.3 Annular (Bentonite) Seal

Annular seals prevent vertical movement of water or contaminants between the filter pack, the adjacent soil formation, and the natural backfill material above the screen. There should be two annular seals in standard monitoring wells, one above the filter pack (lower seal) and one at the ground surface (upper seal). All permanent monitoring wells should be constructed with a lower annular seal at the top of the filter pack to confine the well screen within the desired sampling interval. The lower annular seal should be installed at least 2 feet thick on the top of the filter pack to prevent seal material from leaching into the filter pack. Pelletized bentonite is preferred for this application; however, a bentonite slurry or similar material may also be used, if appropriate.

Install the upper annular seal near the ground surface to protect the well from infiltration of surface runoff and potential aboveground contaminants. The upper annular seal should be installed at least 2 feet thick and extend from approximately 1 to 2 feet below ground surface (bgs) to 3 to 4 feet bgs. This annular seal should be bentonite pellets, bentonite slurry, or similar material.

For shallow wells constructed with approximately only 5 to 6 feet between the top of the filter pack and the ground surface, it is acceptable to combine the upper and lower annular seals into a single annular bentonite seal approximately 3 to 4 feet thick from

the top of the filter pack to approximately 1 to 2 feet bgs. For deeper wells, the annular space between the two seals should be filled with a bentonite slurry or coarse bentonite chips.

When using bentonite pellets to seal the filter pack, install the pellets in sequential, 1-foot thick layers. Hydrate each layer by pouring an approximately equal volume of clean, potable water into the borehole before placing the next layer of pellets. Continue this process until the required minimum 2-foot seal thickness is installed. Use a weighted tape measure, measuring rod, or similar measurement device to check that the filter pack seal is installed in the proper depth interval. Bentonite grout is suggested when freeze–thaw processes may affect the well.

5.3.1 Materials

Pelletized bentonite is preferred for this application; however, the following may also be used:

- Neat cement grout (not recommended for use with schedule 40 PVC well casing or where there might be shrinkage that would allow leakage along the casing).
- Sodium-based bentonite slurry with a mud weight of at least 10 pounds per gallon.
- Sodium-based bentonite granules.
- Sodium-based bentonite pellets.
- Bentonite-cement grout.

Measure the thickness of the bentonite before hydration. The permeability of the seal must be one to two orders of magnitude less than that of the surrounding formation. The seal must be chemically compatible with the anticipated contaminants and chemically inert so that it does not affect the quality of groundwater samples.

Use fine-grain bentonite, such as granules and powder, for seals placed above the existing water level. A bentonite slurry should be used for the bentonite seal below the existing water level. Coarse bentonite, such as pellets and chips, can also be used for bentonite seals located just below the groundwater water level.

5.3.2 Installation Procedures

The following procedures should be followed for placement of the annular seals:

- When installing an annular seal, determine the type and volume of annular seal material needed by referring to the information on the Monitoring Well Construction Log. Record the type, calculated volume, and actual volume of annular seal material used on the Monitoring Well Construction Log.
- Install at least 2 feet of lower annular seal material above the filter pack.
- Install at least 2 feet of upper annular seal material at least 1 to 2 feet bgs.
- At locations where there is shallow groundwater, the upper and lower annular seal may be combined so that there is 2 feet of filter pack above the well screen and 3 to 4 feet of annular seal. Document alternative procedures like this on the Monitoring Well Construction Log.
- Install the annular seal in 1-foot layers or less and hydrated with clean, potable water between layers.
- Water used for bentonite hydration or for mixing bentonite slurry should be from an approved potable source, of suitable quality, and free of pollutants and contaminants. Document the volume of water used on the Monitoring Well Construction Log.
- Document that the drilling contractor measures the depth to the seal by using a weighted tape measure, measuring rod, or similar measurement device to confirm that the thickness and depth of the seal meet the design requirements.
- Allow the bentonite to completely hydrate in accordance with the manufacturer's instructions before filling the remainder of the annular space with bentonite/cement grout.
- For deep wells, install the seal material by using a tremie pipe to prevent bridging. When using cased borehole drilling methods (such as hollow stem augers), the annulus between the monitoring well casing and drill stem may serve as the tremie pipe.

- Record the actual volumes of bentonite and grout used during well construction on the Monitoring Well Construction Log and explain any discrepancy between the calculated and actual volume.

- Record the details of the well construction including annular seal depth, thickness, seal material type, and installation methods on the Monitoring Well Construction Log.

5.4 Surface Completion and Well Protection

Two types of surface completions are typical to monitoring well installations: (1) aboveground completion and (2) flush-mounted completion. Surface completion and well protection prevent surface runoff from infiltrating the well annulus and protects the well from accidental damage or vandalism.

5.4.1 Surface Seals

There should be a surface seal of concrete around the protective well casing at each well that fills the upper annular space. A surface seal is a separate upper annular seal installed above, but not connected to the bentonite seal (except in very shallow monitoring wells).

5.4.2 Surface Completion and Monuments

Construct each monitoring well with a surface monument to protect the well casing from damage. Depending on site conditions, concrete may be used to create a secure monument foundation and provide an additional surface seal. Constructed concrete monument foundations (slabs) should be sloped away from the well so that it sheds rain and surface water. If an aboveground monitoring well monument is installed, construct the well monument with a protective casing, preferably made of steel. Extend the protective casing at least 6 inches above the top of the well casing, and at least 2 feet into the ground. Install the protective casing before the upper annular seal sets. Seal and immobilize the protective casing within the concrete monument foundation. To accommodate sampling equipment, make sure there is sufficient clearance between the lid of the protective casing and the top of the riser.

Additional protective casing installations steps may include drilling an approximately ¼-inch-diameter weep hole in the protective casing approximately 6 inches above

ground surface to permit water to drain out of the annular space between the protective casing and the riser. In winter, this hole will also prevent water freezing between the protective casing and the well casing. Place dry bentonite pellets, granules, or chips in the annular space from 3 to 4 inches below the weep hole within the protective casing. Place coarse sand or pea gravel (or both) in the annular space above the dry bentonite pellets and within 6 to 12 inches below the top of the well casing to allow water to drain from within the protective casing and prevent insect habitation.

If a flush-mount monitoring well monument is installed, construct the well monument with a steel protective cap with a subsurface casing that extends approximately 1-2 feet bgs. The top of the steel protective cap and protective casing must be flush with the ground. Install the protective casing before the upper annular seal sets. Seal and immobilize the protective casing in a concrete, flush-mount foundation, if possible. To accommodate sampling equipment, make sure there is sufficient clearance, usually 6 inches, between the steel protective cap and the top of the well casing.

Additional protective casing installations steps may include drilling an approximately ¼-inch-diameter weep hole in the protective casing approximately 18 to 24 inches from the top of the protective casing to permit water to drain out of the annular space between the protective casing and the well casing. Place coarse sand or pea gravel (or both) in the annular space within the protective casing to within 2 to 3 inches below the top of the well casing to allow water to drain from within the flush-mount monument and prevent insect habitation.

Regardless of the type of monument, each well should be fitted with a well casing cap that easily fits below the protective well monument cap. Install a leak-proof well casing cap on the top of each well casing to prevent vandalism and to prevent water from entering the well casing. The protective well monument cap should be leak-proof and secured with multiple bolts for additional protection. Document all construction details and materials used on the Monitoring Well Construction Log. Clearly mark monitoring wells with a unique well identifier on the inside and outside of the protective casing.

5.4.3 Well Protection

Monitoring wells can have either aboveground or flush-mount completions. If the well casing is composed of metal and completed above the ground surface, attach a lockable cap to the top of the protective well casing and lock the cap with a padlock. For flush-

mount wells, install a protective well monument vault (or equivalent) around the well with a lockable or bolt-on cover that has a waterproof seal. Install the cover level with the ground surface to help prevent the inflow of surface water.

5.5 Installation of Micro-Wells

Micro-wells are small-diameter monitoring wells. Micro-wells are generally installed in boreholes driven by direct push systems and are typically less than two (2) inches in diameter. Micro-wells installed by the direct push system method generally have the same installation requirements as conventional wells.

- Keep the well casing sealed in plastic until it is ready to be installed into the borehole.
- Carefully assemble and install well casings and screens to prevent damage to the sections and joints.
- Sections of well casing and screen must be mechanically connected, such as flush threading. Use of glue or solvents to connect or seal casing is prohibited.
- Secure an end cap at the bottom of the well screen before installing section(s) of well screen into the well boring.
- If using pre-pack well screens, take care to not tear or damage the outer fabric or screen holding the pre-pack filter sand to the well screen.
- Install the well casing and well screen straight and plumb and centered within the middle of the borehole.
- Install the filter pack from the bottom of the borehole to at least 2 feet (up to 5 feet) above the top of the well screen. At locations that have shallow groundwater, the filter pack can be placed to extend to at least 1 foot above the top of the screen.
- During installation, place a cap on top of the casing to prevent well materials from entering the well casing.
- Install an annular seal from the filter pack to the top of the well.

- The annular seal must prevent vertical migration of liquids into the borehole annular space.

5.6 PFAS Considerations

PFAS compounds are found in several everyday items. When PFAS is a contaminant of concern on a site and as determined by a work plan, as a check for cross-contamination, quality control samples will be collected from Investigative related materials/ supplies and equipment that are anticipated to be used for the investigation. These include water used by the drilling contractor for drilling and equipment decontamination; augers, rods, split-spoon sampling barrels, totes and tanks used by the drilling contractor; filter sand used as monitoring well sand pack; monitoring well construction materials (PVC riser and screen); and bottled water used as final decontamination rinse water. The samples will be collected and analyzed for PFAS. Analytical results will be reviewed prior to Site mobilization. Mobilization to the Site will only be permitted if analytical results depict PFAS below detection limits or at concentrations that are not expected to cross-contaminate environmental samples. The types of investigative related materials/supplies for quality control samples to be collected, and the sampling method and rationale are detailed in the site-specific work plan and QAPP. Investigative related materials/supplies that have been sampled for PFAS, including equipment such as driller augers, rods, split-spoon sampling barrels, totes and tanks will be segregated and will not be used for any other purpose by the drilling contractor from the time that the samples are collected to the time that the equipment is mobilized to the Site for the investigation.

6.0 RECORDS

All materials and procedures used during installation of wells should be documented in the Field Logs and Monitoring Well Construction Logs.

C.T. MALE ASSOCIATES ENGINEERING,
SURVEYING, ARCHITECTURE,
LANDSCAPE ARCHITECTURE &
GEOLOGY, D.P.C.

PROJECT SPECIFIC OPERATING PROCEDURE

MONITORING WELL DEVELOPMENT

PSOP #017

June 18, 2026

Daniel T. Achtyl, P.G.		6/19/2026
Print Name	Technical Reviewer Signature	Date
Jeffrey A. Marx, P.E.		6/19/2026
Print Name	QA Manager Signature	Date

Review of the PSOP has been performed and the PSOP still reflects the current practice			
Initials		**Date**	
Initials		**Date**	

PSOP: MONITORING WELL DEVELOPMENT

1.0 PURPOSE

The purpose of this project specific operating procedure (PSOP) is to describe how to develop new monitoring wells that have just been installed or redevelop existing monitoring that may have become partially filled with sediment during use as a monitoring well. These procedures are performed with the objective of obtaining representative groundwater information and water quality samples from aquifers. These procedures may also be employed for development of fractured bedrock formation monitoring wells.

2.0 SCOPE

This PSOP applies to all C.T. Male personnel engaged in development and sampling of groundwater monitoring wells and piezometers. This PSOP focuses on the common monitoring well development tasks and should be used in conjunction with other applicable project PSOPs.

3.0 RESPONSIBILITIES

3.1 Project Manager

The Project Manager will develop or direct the well development procedures to be used. The Project Manager verifies that monitoring well development procedures comply with this PSOP and the requirements of the enforcing agencies. Alternate well development requirements and procedures required by local agencies or other modifications must be documented and approved by the Project Manager.

3.2 Field Team Leader/Field Technician

The Field Team Leader/Field Technician should know the requirements for well development and should maintain adequate documentation of the development process and materials used to demonstrate that the well has been properly developed.

4.0 EQUIPMENT AND SUPPLIES

Equipment that may be used to facilitate monitoring well development includes, but is not limited to, the following items:

- Pumps (e.g., submersible or peristaltic);
- Pump discharge hose/tubing;
- Bailers;
- Personal Protective Equipment;
- Water level indicator or interface probe;
- Surge block;
- Water quality meters;
- Turbidimeter;
- Buckets and/or drums;
- 1L Paint Cup; and
- Clamp.

5.0 PROCEDURE

5.1 General

These procedures are used to remove the fine-grained materials from a well or well bore as a result of boring or well construction. Monitoring wells must be developed to provide water free of suspended solids and to yield representative samples. Well development should ideally result in a well that yields visibly clear groundwater. Wells should be developed no sooner than 48-hours after installation. Satisfactory well development will be achieved when ten (10) well volumes have been purged or turbidity reads fifty (50) NTU or below, whichever occurs first. Water quality readings should be collected by the field technician once per well volume.

5.2 Calibration

If used, the water quality meters and turbidimeter will be calibrated as per the applicable C.T. Male PSOP. The meters will undergo calibration checks, at a minimum, before and after development. The calibration check will be documented on a calibration form (as appropriate) and/or in the field log. Any significant issues found during the calibration check will be noted in the field logs.

5.3 Development

Development methods include bailing, surging, pumping/over-pumping, and jetting with water. The basic principle behind each method is to create reversals of water flow into and out of the well screen (and/or bore hole) to break-down any potential mud cake or disturbed zones where fine-grained particles may be concentrated at the borehole-formation interface, and to draw the finer materials into the well or borehole for removal. This process also helps remove fine fraction formation materials in proximity to the borehole wall, leaving behind a "natural" pack of coarser-grained materials.

5.3.1 Bailing

In relatively clean, permeable formations where water flows freely into the borehole, bailing is an effective development technique. Let the bailer fall down the well until it strikes the surface of the groundwater which produces an outward surge. Rapidly

withdraw the bailer to create a drawdown and/or after the bailer hits the groundwater lower it to the bottom of the well and agitate it with rapid short strokes. Continue bailing with repeated up and down "surging motions" until water bailed from the well is free from suspended particles. During this process, if the well goes dry, stop bailing and let the well recharge before continuing.

5.3.2 Surge Block

A surge block is a tool used to break up bridging of fine-grained material by inducing agitation and inducing flow into and out of the well and aquifer formation. Bridging is the tendency for particles moving towards a well under unidirectional flow (pumping) to develop a blockage that restricts subsequent particles from moving into a well. Surge block is used alternately with either a pump or bailer. Let the surge block fall down the well until it strikes the groundwater surface. This creates a vigorous outward surge; rapidly retrieve the surge block. Lower the surge block to the top of the well intake and begin a pumping action with a typical stroke of approximately 3 feet and gradually work downward through the screened interval. Remove the surge block at regular intervals to discard the loosened suspended particles by either bailing or pumping. Continue the cycle of surging/bailing/pumping until satisfactory development has been attained.

5.3.3 Pumping/Over-pumping

In both pumping techniques, the groundwater flow is induced to flow into the well and the fine particulate material moves into the well and is discharged by the pump. In the case of over-pumping, the pump is operated at a capacity that substantially exceeds the ability of the formation to deliver water. Once pumping has begun, start the surging action by lowering and raising the hose/pumping apparatus through the screened interval. Bailing or bailing and surging may be combined with pumping for efficient well development. Continue pumping until such time as satisfactory development has been attained based on field observation of visibly clear water produced. If an analytical measure is needed, use turbidity meter readings to document initial turbidity and final turbidity readings. Well stabilization parameters may also be measured and documented pre- and post-development.

If pumping/over-pumping is completed by air lifting, the air compressor must be of an oil-less type or fitted with an oil trap capable of removing compressor oil from the air stream to avoid contaminating the well or boring.

5.3.4 High Velocity Jetting

Development by high velocity jetting may be completed with either water or air. In practice, jetting with water is typically followed by or simultaneously occurring air-lift pumping/over pumping to remove the fine materials The jetting procedure consists of operating a horizontal water jet(s) inside of the well screen so high velocity streams of water shoot through the screen openings into the sand pack/formation. The jetting tool works similar to a surge block. The jetting tool ideally will have four openings located 90 degrees apart and should be worked up and down the screened interval while being rotated. At a minimum, the amount of water introduced during jetting and, if feasible, an additional 10 well volumes of water should be purged from the well.

5.4 Disposal

Waste generated by this process will be disposed of in accordance with Federal, State and Local regulations and C.T. Male's "Investigative Derived Waste" PSOP.

6.0 RECORDS

The field technician(s) will document the method of development, any deviations from this PSOP, volume of water purged, and any volume of water introduced to the well (e.g., high velocity jetting, flushing).

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LANDSCAPE ARCHITECTURE &
GEOLOGY, D.P.C.

PROJECT SPECIFIC OPERATING PROCEDURE

SURFACE AND SUBSURFACE SOIL SAMPLING

PSOP #018

June 18, 2026

Daniel T. Achtyl, P.G.		6/19/2026
Print Name	Technical Reviewer Signature	Date
Jeffrey A. Marx, P.E.		6/19/2026
Print Name	QA Manager Signature	Date

Review of the PSOP has been performed and the PSOP still reflects the current practice			
Initials		**Date**	
Initials		**Date**	

PSOP: SURFACE AND SUBSURFACE SOIL SAMPLING

1.0 PURPOSE

This project specific operating procedure (PSOP) provides the methodology for collecting discrete surface and subsurface soil samples used to characterize the nature of soil contamination, delineate the areal and vertical extent of contaminated soil, to determine the geotechnical, physical, and chemical properties of the soil, and/or for remedial action confirmatory/documentation sampling.

2.0 SCOPE

This PSOP applies to all C.T. Male personnel engaged in collecting or otherwise handling surface or subsurface soil samples. This PSOP focuses on the commonly used soil sampling tasks and applications and should be used in conjunction with other applicable project PSOPs.

3.0 RESPONSIBILITIES

3.1 Project Manager

The Project Manager is responsible for providing adequate resources and ensuring that field staff have adequate experience and training to successfully perform the required tasks. The Project Manager will solicit the appropriate technical expertise to identify suitable sampling methods and technology for the job given the current understanding of the site and project goals.

3.2 Field Team Leader/Field Technician

The Field Team Leader/Field Technician should ensure that soil samples are collected according to this procedure. They will make rational and justifiable decisions and should consult the Project Manager if deviations from this procedure are necessary because of field conditions or unforeseen problems.

4.0 EQUIPMENT AND SUPPLIES

Equipment that may be used to facilitate the collection of surface or subsurface soil samples includes, but is not limited to, the following items:

- Photoionization detector (PID) meter;
- Stainless-steel trowel, scoop, or spoon;
- Stainless-steel hand (bucket) auger;
- Stainless-steel or carbon steel split spoon, split barrel, or macro-core sampler;
- Shovels, pickaxes, pick mattocks, or similar excavating tools;
- Soil core samplers (TerraCore®, or equivalent);
- Stainless-steel bowls or pans;
- Paper towels;
- Decontamination equipment (buckets, brushes, Alconox, etc.);
- Polyethylene sheeting;
- PPE (nitrile gloves, safety glasses, etc.);
- Sample cooler;
- Ice;
- Sample jars and labels;
- Chain-of-custody forms;
- Soil classification charts;
- Ziploc bags;
- Survey stakes or flags; and
- Hammer.

5.0 PROCEDURES

5.1 General

Selecting the proper methods and tools for surface and subsurface soil sampling is a critical part of field investigations and remedial actions. This PSOP describes the methods generally used for surface and subsurface soil sampling, as well as the tools commonly used.

Personnel who collect or handle the soil samples should wear, at a minimum, disposable nitrile gloves to provide personal protection and to prevent cross-contamination. New gloves should be donned for sample collection at each location, or whenever gloves are torn or otherwise compromised. Depending on the project, a site-specific Health and Safety Plan (HASP) will provide additional information on personal protective equipment (PPE) requirements.

The following procedures should be used to collect soil samples for laboratory analysis:

- Unless otherwise specified, laboratory soil samples must be discrete samples and may not be composited before analysis.
- Soil samples must be collected according to the method specifications appropriate for the laboratory parameters to be analyzed.
- Soil samples must be collected with disposable or clean tools that have been decontaminated as outlined in PSOP "Equipment Decontamination Procedures".
- Disposable nitrile gloves (at a minimum) must be worn and changed between sample collections.
- Soil samples must be placed in containers quickly and in the order of volatility; for example, volatile organic aromatic samples must be taken first, gasoline range organics next, heavier range organics next, and soil classification samples last.
- Sample containers must be quickly and adequately sealed, and rims must be cleaned before tightening lids.

- Sample containers must be labeled with appropriate information.

- Samples must immediately be preserved according to the method specifications appropriate for the laboratory parameters to be analyzed. Unless specified otherwise, at a minimum, the samples must be immediately chilled to 4 ±2 degrees Celsius (°C) and this temperature must be maintained through delivery to the laboratory for analysis.

- Sample holding times must conform to the method specifications of the required analytical methods.

- Alternative methods to obtain soil samples may be used only if the alternative methods have been approved by the Project Manager and documented in the site-specific QAPP and Environmental Services field Log.

- Soil samples collected for analysis of volatile organic compounds (VOCs), Per & Poly-fluoroalkyl substances (PFAS), and gasoline range organics (GROs) will be collected with special precautions as detailed below in Section 5.6.

- Each soil sample fraction collected for analyses other than VOCs, PFAS, GRO, or VPH will be thoroughly homogenized using a Ziplock bag or equal method. The homogenized material will then be divided equally among the appropriate sample containers. The sample containers will then be sealed tightly. Care should be taken so that the sampling tools and containers (such as spoons and bowls) used for sample collection and homogenization does not interfere with the analytes of interest.

- Multi-incremental samples (MIS) should be collected by placing equal amounts (or aliquots) of soil collected from multiple locations into a decontaminated, dedicated collection container. The aliquots will then be homogenized using a sample collection tool such as Ziplock bag. The homogenized material will be divided equally among the appropriate sample containers, and the sample containers will be sealed tightly.

5.2 Decontamination

Before collecting soil samples, reusable, non-disposable sampling equipment should be decontaminated. Decontamination supplies must be on hand so that equipment can be decontaminated in the field if sampling equipment is to be reused. Each piece of reusable sampling equipment should be decontaminated between each sample location or sampling interval. Procedures presented in PSOP "Equipment Decontamination Procedures" shall be followed.

Disposable sampling equipment will be used whenever feasible to minimize decontamination and the potential for cross-contamination. Disposable sample equipment will be observed before use to document that it is clean and free of potential contaminants.

5.3 Surface Soil Sampling

Surface soil samples will be collected using a stainless steel scoop, spoon, or other appropriate hand tools. Samples for VOC and PFAS analysis will be collected directly from the soil column at the specified sampling depth interval if possible. For non-VOC samples, the sampler, wearing clean disposable nitrile gloves, will remove materials, including pebbles and roots, from the mixture as the sample is collected. Each non-VOC sample will be collected by thoroughly homogenizing material from the appropriate depth interval from the respective sampling location. A clean, gloved hand will be used to collect the soil sample and fill all laboratory-supplied analytical sample containers.

5.4 Subsurface Soil Sampling

Before subsurface soil sampling, each sample location should be checked and cleared for buried utilities before intrusive activities begin.

5.4.1 Shallow Subsurface Soil Sampling with Hand Tools

Shallow subsurface soil samples can be collected by hand using a variety of sampling equipment and devices. Common equipment used to collect shallow subsurface soil samples includes soil coring devices, various types of hand augers (bucket-type,

continuous-flight, and posthole), and other common hand tools such as shovels and pickaxes. Depending on field conditions or sampling objectives, several types of sample collection equipment may be used to collect soil samples at a single location. Of the equipment listed, only soil coring devices collect an undisturbed soil sample and thus are recommended for sampling of VOCs. Sampling personnel should choose the sampling equipment that is best suited for project requirements and task needs.

Using a decontaminated hand auger (or similar equipment), the soil borehole will be advanced to the depth immediately above the sampling interval, and cuttings will be removed from the borehole. Before advancing a borehole, remove unnecessary rocks, twigs, and other non-soil materials from the selected sampling location. Assemble the sampling equipment, if necessary, per the manufacturers' specifications and place the sampler in position with the bit or cutting shoe touching the ground. Begin turning the auger with a clockwise motion or driving the soil core device with the slide hammer until the desired sampling depth is obtained. If the sample is to be collected using the same hand auger or soil coring device, the auger or core sampler will be decontaminated before collecting the soil sample. The discrete sample will then be collected by advancing the sampling equipment to the appropriate depth interval and retrieving the soil sample. When collecting samples at depths greater than 12 inches, it is advisable to discard approximately the upper 1 inch of material in the top portion of the auger or sampler because of borehole slough and cave-in. The sample will then be promptly transferred into laboratory-cleaned sample containers or a Ziplock bag for homogenization before transferring to sample containers.

5.4.2 Deep Subsurface Soil Sampling

Deep subsurface soil samples are typically collected using split-spoon and/or macro-core samplers. A split-spoon sampler is a soil coring device that consists of a length of carbon or stainless-steel tubing, split longitudinally and equipped with a sample shoe and a drive head. A macro-core sampler is a soil coring device that consists of a length of stainless steel tubing equipped with a screw-on sample shoe and drive head. Split-spoon samplers and macro-core samplers are used in conjunction with a power auger drill rig or direct-push vehicle, and are usually either hammered or hydraulically pushed into the interval to be sampled. The interval(s) to be sampled may be either predetermined or

determined according to criteria observed during advancement of the drilling equipment. The following procedures focus on sampling soil for chemical analysis, using a split-spoon or direct push system continuous macro-core sampler. Soil samples obtained for physical characterization are typically collected using similar procedures.

Drilling Method

Using hollow stem auger or advancing flush joint casing, the soil borehole will be advanced to the depth immediately above the sampling interval.

Split-Spoon

Utilize a split-spoon sampler to collect a relatively undisturbed, representative soil sample during the drilling activities. Standard Penetration Test blow counts for that sample, as well as the interval from which the sample was obtained, will be recorded on the Subsurface Exploration Logs. Depending on the size of the split-spoon employed, typically 18 to 24 inches of soil will be recovered in advance of the drill bit. The split-spoon sampler will then be removed from the borehole and opened exposing the soil core for sample collection and examination. Soil samples for laboratory analysis should be collected from the undisturbed, middle portion of the soil core and soil from the very ends of the soil core must be discarded as they often contain disturbed soils. The sample will then be immediately and quickly transferred into clean, laboratory sample containers as described in Section 5.1. The soil core will be examined by the field staff, screened for VOCs using a PID (see PSOP "Organic Vapor Monitoring and Air Monitoring", and logged for lithology on the Subsurface Exploration Log.

Direct Push System Drilling Method

Direct push system soil samples are typically collected using a continuous macro-core sampler with liners using direct push system drilling procedures. At the top of each sample interval, the macro-core sampler will be driven into the substrate to a depth equal to the length of the sampler. After the sampler has been advanced, it is retrieved from the borehole and the liner containing the soil core is placed on a firm, horizontal surface, for opening, inspection, and sampling. The liner for each sample core is then cut open to expose the soil sample core for soil sampling and examination. Samples for laboratory

analysis will be immediately transferred into clean laboratory sample containers as described in Section 5.1. The soil core will then be examined by the field staff, screened for VOCs using a PID (as applicable), and logged for lithology. Special attention must be given to labeling and storage of individual core samples when continuous soil samples are collected from a single boring. In many instances, soil cores can be produced faster than they can be opened, logged, screened, and sampled. In those instances when a backlog of cores is being generated, protect the cores from direct sunlight, excessive ambient temperatures, and rain. These conditions may have an adverse effect on highly sensitive volatile organics within the core or the instruments used for screening. Keep the cores labeled so that the up/down orientation is not lost. If necessary, log soils for lithology information after sample collection.

5.5 Excavation and Stockpile Sampling

Soil sampling of excavations and stockpiles should be conducted using similar techniques as described in Sections 5.3 and 5.4.1.

5.5.1 Excavation Sampling

When collecting soil samples from excavations including test pits, soil samples should generally be collected from freshly uncovered soil. Remove 4 to 6 inches of soil before sample collection. If the excavation has been open for longer than 1 hour, remove at least 12 inches of soil immediately before collection. Do not collect samples from disturbed soil that has fallen into the bottom of the excavation pit. If the depth of the excavation (i.e., greater than 4 feet) is such that sampling cannot be safely conducted within the excavation, soil samples may be collected directly from the excavator bucket. When collecting soil samples from an excavator bucket, samples should be collected from the center of the bucket and away from the bucket sides. Refer to the project-specific HASP and/or consult with the Project Manager and/or Health & Safety Officer regarding excavation safety before entering open excavations.

5.5.2 Stockpile Sampling

Field screening and analytical soil samples must be collected at least 12 inches beneath the exposed surface of the stockpile, unless additional shallower field screening samples

are needed to represent soil contaminant heterogeneity. Contamination can be persistent near the bottom of long-term stockpiles, so some samples shall be collected near the base. Soil samples from the surface, within, and near the bottom of a stockpile will be collected using the methods previously discussed in Sections 5.3 and 5.4.1.

5.6 Volatile Organic Soil Sampling

If VOCs are among the analytes to be investigated at a particular site, discrete soil samples will be collected following opening of the soil core. Soil samples for VOC analysis should be collected in a way that minimizes sample volatilization through excessive atmospheric exposure, mixing, and/or other disturbance. It is recommended that VOC samples be collected using core-type samples such as split-spoons, macro-core samplers, and soil coring devices that reduce the loss of volatiles during sampling. Soil core samplers must be constructed of non-reactive materials that will minimize the loss of volatile organics from the sample.

Analytical samples should be collected in the following order:

- PFAS;
- VOCs, GRO, VPH, and BETX;
- Semi-volatile organic compounds (SVOCs); including pesticides, herbicides, diesel range organics (GRO), residual range organics (RRO), and polychlorinated biphenyls (PCBs);
- Total Organic Carbon; and
- Metals.

VOC soil samples analyzed using U.S. Environmental Protection Agency (EPA) Method SW-846 Method 5035A will be collected as follows:

- Discrete soil samples can be collected using a 5-gram soil core sampler with a new, dedicated, and disposable sample syringe or tip as described in American Society for Testing and Materials (ASTM) standard D6418-09. These devices are used to collect a specific soil sample mass for volatile organic analysis in a manner that minimizes loss of contaminants because of volatilization or biodegradation.

Frequently accepted discrete soil core samplers are TerraCore® samplers or equivalent

- Soil samples will be collected from a specified location and soil depth as determined by field screening. After determining the sample location, the soil core sampler will be plunged into the soil core to collect a sample.
- To collect a sample, have ready a pre-weighed, pre-preserved, and labeled 40 mL VOC vials. With the syringe or plunger seated in the handle, push the soil core sampler into freshly exposed soil until the sample chamber is filled. Do not pull the syringe or plunger back before use.
- Wipe soil or debris from the outside of the soil core sampler and remove excess soil that extends beyond the end of the sampler, so that the soil plug is flush with the end of the sampler. A filled chamber will deliver approximately 5 grams of soil.
- Place the mouth of the soil core sampler into the 40-ml VOC vial and extrude the 5-gram sample into the VOC vial by pushing the syringe or plunger down.
- Quickly seal the lid back on the 40-ml VOC vial.
- Take care not to leave soil grains along the threaded cap area of the VOC vial so that the lid can be screwed on tightly forming a tight seal. Be sure to remove soil or debris from the top and/or threads of the vial.
- Following collection, samples will be labeled with unique sample identification and packaged appropriately.
- Samples collected shall be placed inside coolers to maintain the samples at 4±2°C
- VOC containers should be padded so that the glass walls of the containers do not come into direct contact with ice or other samples, thereby reducing the risk of cracking the glass containers.

5.7 PFAS Soil Sampling

If PFAS are among the analytes to be investigated at a particular site, discrete soil samples will be collected following the surface or subsurface investigation activity. Soil samples for PFAS analysis should be collected in a way that minimizes sample volatilization or degradation through excessive atmospheric exposure, mixing, and/or other disturbance. PFAS samples shall be collected using split-spoons, macro-core samplers, and hand tools.

PFAS soil samples analyzed as specified in the site specific work plan and site specific QAPP. Samples should be collected as follows:

- Soil samples will be collected from a specified location and soil depth as determined by field screening or as determined in the project-specific work plan.
- To collect a sample, place soil into a laboratory supplied container specifically required for PFAS media samples. Ensure non-PFAS containing PPE is used.
- Wipe soil or debris from the outside of the sample container and place lid on container.
- Following collection, samples will be labeled with unique sample identification, packaged appropriately, and kept at a temperature of approximately 4 degrees Celsius inside a cooler for preservation.

5.8 Diesel Range Organics (DRO) / SVOC / General Chemistry / Metals

Using either a composited sample or a homogenized, discrete sample, fill the remaining containers in the order listed in the QAPP. Unless aliquot weights are listed, pack the soil into the sample jars leaving no headspace.

Wipe the container lip and screw threads to remove soil and provide a good sealing surface, and immediately screw on the lid.

5.9 Quality Assurance/Quality Control Procedures and Samples

Quality Assurance/Quality Control (QA/QC) samples will be collected during soil sampling according to the site-specific QAPP and may include duplicate (replicate), matrix spike, matrix spike duplicate, trip blank and equipment (field) blank samples. Typically, one set of QA/QC samples will be collected per 20 field samples per media (i.e., soil).

QA/QC samples will be assigned unique sample identifications and handled and submitted to the laboratory the same as field samples.

5.9.1 Equipment Blanks

An equipment blank sample is collected in the field by running lab supplied water across the surface of re-usable, decontaminated sampling equipment and into appropriate sample containers.

5.9.2 Field Duplicate Samples

Field duplicate samples will be collected simultaneously or in immediate succession to the normal samples using identical sampling techniques.

5.9.3 Matrix Spikes and Matrix Spike Duplicates

Matrix spike/matrix spike duplicate samples will be collected simultaneously or in immediate succession to the normal samples using identical sampling techniques.

5.9.4 Trip Blanks

A trip blank is a sample of analyte-free water prepared by the laboratory, taken to the sampling site along with the sample bottles, and returned to the laboratory for analysis, to measure possible cross contamination of containers/samples during shipping to and from the site. Typically, there is only one trip blank per chain of custody per sample cooler, except when trip blanks require different preservatives for different methods.

5.10 Handling

After collection, all samples should be handled as few times as possible. Samplers should use extreme care to ensure that samples are not contaminated. Immediately after samples are collected, they are bubble wrapped or bagged and placed in a cooler containing bagged ice. Samples will be kept cold (≤ 6 °C, but not frozen) until receipt at the laboratory, where they are to be stored in a refrigerated area. Keep samples secure to prevent tampering. If sample coolers are left in a vehicle or field office for temporary storage, the area will be locked and secured.

Note: Soil samples collected for analysis of VOCs may be required to be placed within a freezer rather than a refrigerator when samples may not be delivered to the analyzing laboratory before the standard holding time (48 hours) elapses. Such practices should be confirmed with the laboratory and with project managers.

5.11 Shipment/Delivery

Once the cooler is packed to prevent breaking containers, the proper COC documentation is relinquished by the sampler, placed into a plastic bag, and included in the cooler. Custody seals may be used, and the coolers should be taped shut if not hand delivered.

5.12 Waste Disposal

As applicable, waste generated by this process will be disposed of in accordance with Federal, State and Local regulations and PSOP 'Investigative Derived Waste'.

6.0 RECORDS

Records should be documented on the Environmental Services Field Logs, Subsurface Exploration Logs and other field logs as applicable.

7.0 DEFINITIONS

Discrete soil sample: A discrete aliquot from a distinct sampling interval (of a specific sample size) that is representative of one specific location at a specific point in time.

Surface soil: Generally considered to be the top 6 inches of a soil horizon profile (that is, soil from 0 to 6 inches bgs), soil down to depths of 2 feet bgs may be considered surface and/or near-surface soil.

Subsurface soil: The soils below surface soil.

C.T. MALE ASSOCIATES ENGINEERING,
SURVEYING, ARCHITECTURE &
LANDSCAPE ARCHITECTURE &
GEOLOGY, D.P.C.

PROJECT SPECIFIC OPERATING PROCEDURE

DRLLING AND ASSOCIATED SAMPLING METHODS

PSOP #020

June 19, 2026

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Print Name	Technical Reviewer Signature	Date
Jeffrey A. Marx, P.E.		6/19/2026
Print Name	QA Manager Signature	Date

Review of the PSOP has been performed and the PSOP still reflects the current practice			
Initials		**Date**	
Initials		**Date**	

PSOP: DRILLING AND ASSOCIATED SAMPLING METHODS

1.0 PURPOSE

This project specific operating procedure (PSOP) provides guidance for selecting and implementing the proper drilling methods for advancement of boreholes to aid in the collection of media samples and installation of groundwater monitoring wells using common drilling methods.

2.0 SCOPE

This PSOP applies to all C.T. Male Associates personnel and sub-consultants engaged in the drilling activities.

3.0 RESPONSIBILITIES

3.1 Project Manager

The Project Manager is responsible for developing and communicating the scope of work as it relates to drilling procedures to the Field Team Leader and Field Technician(s) and promote the overall drilling procedures being conducted in accordance with this PSOP and/or other referenced PSOPs.

3.2 Field Team Leader

The Field Team Leader shall know the requirements for the drilling procedures and maintain adequate documentation of the work.

3.2 Field Technician

Field Technicians are responsible for inspection and observation of drilling procedures, collection of media samples (if necessary), and supervising the installation of monitoring wells.

4.0 GENERAL

Selecting the proper drilling equipment for environmental and geotechnical media sampling and monitoring well installation is a part of field investigations. This PSOP describes common drilling methods generally used for advancement of boreholes, subsurface soil sampling and groundwater monitoring, well installation and the commonly used tools for these techniques. Common drilling methods include hollow stem auger (HSA) drilling methods, flush joint casing drilling methods, direct push system (DPS) drilling methods, and rotosonic drilling methods. These drilling methods are further discussed in Section 5.0 of this PSOP.

In addition to selecting the proper type of drilling technology, drilling activities should conform to Federal and/or State regulations and be supervised by an experienced geologist or environmental scientist. Either the drilling contractor or C.T. Male Associates will obtain permits, applications, and other documents required by Federal, State and/or Local authorities and the client. In addition, the following general guidelines should be considered during planning and implementation of drilling activities:

- Review background information for the drilling work area. This includes, at a minimum, identifying and understanding the type(s) of contaminant(s) released, the manner of release, the affected media, and the site stratigraphy.
- Select the proper drilling technology and drill rig based on the reviewed information.
- Determine the inside diameter of the soil borehole needed to accomplish the drilling objectives and provide adequate sample volume.
- Before mobilization to each borehole location, determine that the location is free of subsurface or overhead utilities. **The drilling contractor will be responsible for obtaining utility clearance prior to mobilizing to the project site.**
- Take appropriate precautions during drilling to avoid introducing contaminants into the borehole.
- Drill boreholes in areas of no or low anticipated contamination first, and then progress toward areas of increasing contamination. Under ideal conditions, upgradient areas without contamination should be drilled first.

- When drilling boreholes through more than one water-bearing zone or aquifer, take measures to prevent cross-connection or cross-contamination of the zones or aquifers, such as using telescoped casing.
- Before mobilization to each borehole location, decontaminate the drill rig and drilling equipment placed into the borehole by steam cleaning, using high-pressure hot water, or similar methods, as applicable. The drill rig must not leak any fluids that may enter the borehole, contaminate equipment placed in the borehole, release contaminants into the environment, or impact land and waters of the State.
- Eliminate or reduce introducing downhole contamination: Avoid using drilling mud, synthetic drilling fluids, or petroleum- or metal-based pipe joint compounds and other potential contaminants unless necessary. To reduce the cross contamination for PFAS, avoid using tubing, liners, pumps, valves and wiring with polytetrafluoroethylene (PTFE, Teflon™), Vitron, Niskin, GoFlo, aluminum foil, low density polyethylene, and glass, or ethylene tetrafluoroethylene containing Teflon™ check balls, o-rings, compression fittings, and impellers. If their use is necessary, drilling fluids must not introduce or mask contaminants. Provide safety data sheets (SDS) for drilling fluids proposed for downhole use before field work and describe procedures for containment and disposal of fluid in the work plan. If it is necessary to add drilling mud to the borehole during drilling to stabilize the hole or control down-hole fluid losses, use only high-yield sodium bentonite clay free of organic polymer additives.
- If it is necessary to add water to the borehole during drilling to control flowing and heaving soils, use only potable water from a documented contaminant-free source. If drilling to potentially sample for PFAS, the drilling water will need to be filtered and/or certified as PFAS free. Potable or filtered water volume added to a borehole must be developed from the well before sampling. If potable or filtered water is added to the borehole, an equal volume of water must be developed from the borehole in addition to the standard well development volume.
- To the extent practical, restore the site to its pre-drilling conditions. Record information pertinent to documenting the above requirements on the Environmental Services Field Logs.

5.0 DRILLING METHODS OVERVIEW

5.1 Hollow Stem Auger Drilling

HSA drilling is a form of rotating auger drilling, consisting of continuous-casing, segmented auger sections with screw-flights that are rotated into the subsurface under downward pressure. The auger section is typically equipped with a drill bit and cutting teeth. Drill cuttings are brought to the surface by a conveyor action created by the rotating screw flights and drill bit. The auger sections maintain borehole stability even in unconsolidated material.
Continuous (every two feet) or nominal (every five feet) soil samples are collected in general accordance with the procedures of ASTM D-1586, Standard Method for Penetration Test and Split Barrel Sampling of Soils. A standard split barrel sampler (spoon), which is 24-inches long and 2-inches in diameter, is used for sampling. If poor recovery or a larger sample volume is necessary, a 3-inch diameter spoon can be used.

Generally, HSA drilling is limited to depths less than 100 feet where lithology is unconsolidated. Multiple auger sections are connected in series to create a "drill string" with clamping pins or threaded bolts. HSA drilling usually requires a larger drill rig than is used with DPS drilling, and the entire rig can stand between 20 and 40 feet high, requiring high overhead clearance. At sites where groundwater is relatively shallow (less than 50 feet) and DPS drilling is not feasible because of lithology (cobbles and boulders, glacial till, etc. are present), or where a larger diameter borehole is required, it is common to use HSA drilling.

In situ soils may be sampled through the center of the HSA drill stem. An advantage of HSA drilling is that the auger sections can be left in place to hold the borehole open and prevent borehole collapse. Hollow stem augers are specified by the internal diameter of the hollow stem, not by the size of the borehole they drill. Augers with a minimum inner diameter of 4 inches will be required to install a 2-inch monitoring well, to create adequate annular space between the auger casing and well casing to construct well filter sand pack and bentonite seal. The PM will evaluate if larger inner-diameter auger (e.g., 6 inches) to install a 2-inch monitoring well is warranted; however, the benefits should be weighed against the additional investigation-derived waste volumes that will be generated and the cost. If a 4-inch diameter monitoring well is required, the inner auger diameter must be 6 to 8 inches.

Boreholes should be advanced using pre-cleaned and decontaminated augers and sampling equipment. Boreholes that are not converted to wells should be abandoned by returning non-impacted soil cuttings to the borehole and filling remaining borehole space with a grout/bentonite mixture having an approximate ratio of 20:1 using tremie grouting methods. When tremie grouting from the bottom of the borehole, the removing the augers and grouting should be done in a manner that the grout column is continuous and to minimize the borehole collapsing in on itself.

5.2 Flush Joint Casing Drilling

Drilling with flush joint casing is similar to HSA drilling and is most often advanced with the same type of drill rig. Typical casing diameters are 4-, 6-, and 8-inch inside diameter, but can vary. Casing section lengths are typically 5 and 10 feet. Casing sections are joined with flush thread fittings. Casing sections are advanced into the ground with either a 140 lbs. or 300 lbs. hammer with a casing drive head connected to the top of the drill string. A roller bit and water are then used to remove and flush soils from the casing. The casing sections can also be spun into the ground while applying downward pressure on the drill string while adding water to the casing to flush the drill cuttings.

Soil samples are collected in the same manner as when using auger casing (2- or 3-inch spoon). Installation of monitoring wells is essentially the same as using auger casing. Casing with 4- inch inside diameter is typically used for installing 2-inch diameter monitoring wells, and 6-inch casing when installing 4-inch diameter wells.

Flush joint casing is also used to seal off the overburden soils when advancing the borehole into bedrock with a rock core barrel or roller bit.

Boreholes should be advanced using pre-cleaned and decontaminated casing and sampling equipment. Boreholes that are not converted to wells should be abandoned in the same manner as HSA.

5.3 Direct Push System Drilling

DPS drilling technologies involve a category of drilling equipment that hydraulically pushes or drives small-diameter, steel rods into the subsurface without rotating the drill rods. Some drill rigs may be “combo rigs,” capable of conducting both direct push and HSA drilling operations. DPS drilling uses a combination of a hydraulically powered

percussion hammer, a downward hydraulic push, and the weight of the vehicle on which the system is mounted to drive rods into the subsurface. DPS methods push a continuous tube sampler into the subsurface by laterally displacing soil to make a path for the sampler, so no additional cuttings are generated beyond the sampler. DPS drilling is commonly used for shallow applications (less than 50 feet); however, depending on the lithologic conditions, it may be used as deep as 120 feet.

DPS drilling technology is typically limited to unconsolidated formations that are relatively free of cobbles or boulders or dense glacial till. Refusal may occur if there are too many cobbles, boulders, or other consolidated formation materials. However, since DPS drilling is relatively fast, drilling refusal at a desired location may be mitigated by abandoning the borehole and relocating to an adjacent location.

Due to the nature of DPS drilling (i.e., advancing the sampler from the surface each advancement), boreholes generally cannot be sampled deeper than the water table because unconsolidated materials cave in once the drive rods are removed. However, caving may be mitigated by advancing casing with an inner drill rod used for sampling, allowing for sampling below the water table. This method is often referred to as "dual tube".

Outside diameters of samplers and borehole tools generally range from 0.75 to 3.5 inches. If installation of monitoring wells is planned, the inside diameter of the borehole should typically range from 1.5 to 3.5 inches (for 1- to 2-inch diameter wells).

DPS drilling technologies provide the following advantages over conventional drilling methods:

- Minimal ground disturbance, with a small-diameter borehole that is easy to abandon.
- Minimize cuttings, which greatly reduces the need for handling, containerizing, sampling, and disposing of potentially contaminated media (unless media samples are brought to the surface).
- Relatively faster borehole advancement as compared to HSA drilling.
- Relatively faster monitoring well installation as compared to HSA drilling if small-diameter wells (0.75 to 1.25 inches in diameter).

Boreholes should be completed using pre-cleaned and decontaminated drive points, rods, and sampling equipment. Boreholes that are not converted to wells should be abandoned in the same manner as HSA.

5.4 Rotosonic Drilling

Rotosonic drilling advances a borehole using resonant high frequency vibrations to fluidize the formation at the drill bit. Vibrations created in the sonic head at the top of the drill string move rapidly up and down the drill string with intense vibration at the drill bit, with resonant frequencies of 50 to 200 Hertz. Sonic drilling could be used for continuous collection of soil samples and advancement of boreholes into bedrock. A sample barrel is advanced first to capture the sample and then the outer or working casing is advanced to the same depth. The sample barrel is retrieved, leaving the outer casing to prevent formation collapse. This method combines the flush joint casing drilling and the DPS drilling methods.

The sample barrel for rotosonic drilling is typically a 4-inch barrel but can vary based on the outer casing. Typical outer casing diameter is 6-inch inside diameter (2 inches larger than the sample barrel), but can vary. Casing section lengths are typically 5 feet but can be 10 feet. Depending on the size of the drill rig, the casing can be coupled together and advanced at 5- to 20-foot depth intervals. Sample intervals are transferred from the sample barrel to a polyethylene sleeve. The installation of monitoring wells within a rotosonic drilled borehole is essentially the same as when employing either HSA or flush joint casing.

Boreholes should be advanced using pre-cleaned and decontaminated augers and sampling equipment. Boreholes that are not converted to wells should be abandoned in the same manner as HSA.

6.0 DRILLING AND SAMPLING PROCEDURES

6.1 Drilling Contractor Responsibilities

Working around drill rigs can be dangerous. As a result, increased consciousness and vigilant observation of drilling activities are necessary to reduce the risk of injury to workers involved with drilling. Safe work requires that good communication be maintained between the driller/helper and the Field Geologist/Environmental Scientist during drilling activities. Encourage the driller to notify the Field Geologist/Environmental Scientist routinely of the depth(s) currently at, depth(s) at which changes in drilling rates become evident, and immediately of other drilling observations that may indicate changes in stratigraphy, subsurface obstructions, or utilities. The PSOP and HASP for utilizing the machinery to drill the borehole(s) will be conducted by the drilling subcontractor, following their PSOP and HASP.

At a minimum, the following activities should be conducted as part of the drilling program:

- Conduct a kickoff meeting prior to drilling. Describe tasks to be conducted and a tentative schedule. As the drilling progresses, discuss the remaining tasks and revised schedule with the drill crew daily. Communicate progress and issues with the Project Manager.
- Hold a health and safety tailgate meeting prior to the commencement of drilling activities, each day.
- Wear proper PPE at all times when in work area.
- Conduct air monitoring if specified in the project-specific HASP.
- Visit the site and drilling locations with the driller to identify potential site hazards and obstacles before mobilization and setup.
- Document that the drilling contractor has obtained underground and overhead utility clearance. Offset locations that would require driller to not maintain proper clearance with aboveground utilities and obstructions.
- Set up proper traffic controls if working in an area where there are traffic hazards.
- Establish exclusion and decontamination zone using barriers, flagging tape, or other methods to prevent unauthorized access to the drilling location according to the site-specific HASP.

- Observe the drill rig for leaking lines or other hazards and have the driller test safety switches and demonstrate that they work. No fluids should leak from the drill rig.
- Document that personnel working around the drill rig are trained and instructed, familiar with drill rig operation, and understand the task to be performed.
- Identify the locations of the fire extinguisher(s) and first aid kit(s), and verify that they are readily available for use.
- Maintain good housekeeping on and around the drill rig.
- Establish a staging area for storing drilling-derived waste and decontaminating augers and sampling equipment.
- Establish a core logging and sample collection area at a safe location within sight of the drill rig.
- Place sampling equipment and soil recovered from the borehole on plastic sheeting or similar dedicated material to avoid potentially contaminating the ground surface.
- Log downtime that occurs because of drilling contractor equipment failure, weather, site access, or other issues.

7.0 HEAVING AND FLOWING SOILS

Heaving and flowing soils within the subsurface saturated zone may complicate drilling procedures. When encountered, use appropriate drilling techniques to minimize potential impacts; these include using drilling fluids (i.e., mud) or a drill-stem plug. Minimize the use of drilling fluids if possible. However, when necessary, it is permissible to add potable water from a documented, contaminant-free source, or when sampling for PFAS the use of filtered and/or PFAS free potable water to the borehole to control heaving and flowing soils as long as identification of the saturated zones during drilling is not compromised and the drilling fluid can be removed during development so that representative water levels can be obtained. Drilling fluid volume added to a borehole must be developed from the well. If potable or filtered water is added to the borehole, develop an equal volume of water from the borehole, in addition to the standard well development volume. If a drill-stem plug is used, slowly release the plug from the end of the drill-string while at total borehole depth.

8.0 RECORDS

Record field activities and soil boring field data on the Environmental Services Field Logs, Organic Vapor Headspace Analysis Logs, and Subsurface Exploration Logs.

9.0 DEFINITIONS

- Auger section: A segment of hollow auger outer casing with helices (flights) welded around the exterior that conveys soil cuttings from the drill bit to the surface when rotated.

- Borehole: The downward hole in the subsurface lithology created by drilling activities.

- Combo drill rig: Drill rigs capable of conducting both direct push system and rotating hollow stem auger drilling operations.

- Cutting shoe: The cutting end of a direct push system drill string.

- Direct Push System (DPS): A drilling technology that hydraulically pushes or drives small diameter, hollow steel rods into the subsurface without rotating the drill rods.

- Down time: Non-productive time on the part of the drilling contractor or their subcontractors related to scheduling, breakdown, or other operational delays.

- Drill bit: The cutting end of a drill string that typically has cutting teeth.

- Drill string: Multiple auger or casing sections connected in series with a drill bit or cutting shoe connected at the driving end of the drill string.

- Flush Joint Casing: Lengths (usually 5 to 10 ft, casing diameters can be 4, 6 and 8 inches) of steel tubing provided with a box thread at one end and a matching pin thread on the opposite end. Coupled, the lengths form a continuous tube having uniform inside and outside diameters throughout its entire length.

- Heaving or Flowing Soils: Loose medium- and fined-grained soils in a confined, water bearing zone or aquifer that tend to rise up into the drill stem when the unit confining the aquifer is breached by the drill bit. This happens because the water in the aquifer has a pressure head great enough to cause upward flow into the drill stem with enough velocity to overcome the weight of the sand, creating

a quicksand condition and carrying sand into the drill stem. Usually associated with hollow stem auger drilling.

- Hollow Stem Auger (HSA): A form of rotating auger, consisting of continuous-casing, segmented auger sections with helices (screw-flights) that are rotated into the subsurface under downward pressure.

- Investigation-derived waste (IDW): Contaminated waste generated during investigation and/or remedial activities, including wash water, purge water, personal protective equipment, sampling tools and supplies, and soil cuttings.

- Photoionization detector (PID): A detection tool that measures organic vapor concentrations in air using the photoionization potential of the contaminant.

- Probe drive string: The outer casing and drive string used during direct push system drilling.

- Sample shoe: A retaining device, typically made of polyethylene, which allows soils to enter a sampler but does not allow them to exit through the end of the sampler.

- Solid-point drive point: A solid point placed within the open, hollow end of a direct push system cutting shoe so that soil may not push up and into the probe drive string.

- Split- spoon sampler: A soil coring device that consists of a length of carbon or stainless steel tubing split longitudinally and equipped with a sample shoe and a drive head.

- Standard Penetration Test (SPT): A soil test used to evaluate the relative density of unconsolidated soil by counting the number of times a weighted hammer (typically 140 pounds) is repeatedly raised and dropped over a 30-inch height for every 6 inches of soil penetration.

- Unconsolidated formation: A subsurface soil formation that is unstable or loose with a low ability to remain cohesive without retainment. Soils that easily slough or erode back into an open borehole without an outer casing to keep the borehole open.

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PROJECT SPECIFIC OPERATING PROCEDURE

SOIL GAS AND SUB-SLAB SOIL VAPOR SAMPLING

PSOP #022

June 18, 2026

Daniel T. Achtyl, P.G.		6/19/2026
Print	Technical Reviewer Signature	Date
Jeffrey A. Marx, P.E.		6/19/2026
Print	QA Manager Signature	Date

Review of the PSOP has been performed and the PSOP still reflects the current practice			
Initials		**Date**	
Initials		**Date**	

PSOP: SOIL GAS AND SUB-SLAB SOIL VAPOR SAMPLING

1.0 PURPOSE

This project specific operating procedure (PSOP) provides technical guidance and establishes the general methods to plan, install, leak-check, and collect representative vapor-phase samples from the vadose zone (soil gas) and immediately beneath building slabs (sub-slab soil vapor). It integrates sampling and QA/QC controls so that data are defensible for evaluating the vapor intrusion (VI) pathway, consistent with widely adopted best practices and New York State guidance.

2.0 SCOPE

This PSOP applies to C.T. Male employees engaged in active collection of soil gas and/or sub-slab soil vapor using evacuated canisters and/or low-flow pumps with method-appropriate media (e.g., EPA Methods TO-15/TO-15 SIM and TO-17).

3.0 RESPONSIBILITIES

3.1 Project Manager

The Project Manager verifies that vapor pin or soil-vapor screen installation procedures comply with this PSOP and the requirements of the regulatory agencies. Alternate installation requirements and procedures required by local agencies or other modifications must be documented and approved by the Project Manager.

3.2 Field Team Leader/*Field Technician*

The Field Team Leader and Field Technician should understand this PSOP and related contents for soil gas and/or sub-slab soil vapor sampling. Adequate documentation will be maintained on the sampling process and materials used to demonstrate that the soil vapor probes have been properly installed. Field Team Leaders shall also understand the potential hazards, actual hazards, and control methods for the tasks of the project.

4.0 EQUIPMENT AND SUPPLIES

Soil vapor and sub-slab vapor installation and sampling equipment should be verified by the source supplier to be pre-cleaned before use to eliminate the potential for cross contamination. The following list of supplies and equipment may be needed during the course of conducting a soil vapor investigation:

- Certified-clean evacuated, passivated stainless-steel canisters with calibrated flow controllers compatible with target duration and reporting limits.
- inert tubing (stainless steel, Teflon®, HDPE/Nylaflow) for collecting samples from the desired sampling zone.
- Stainless steel soil gas or soil vapor implants.
- Certified clean silica sand/glass beads and bentonite for completing semi-permanent subsurface soil vapor probe installations. Appropriate surface completions to protect probes if probes are at risk of being disturbed before sampling.
- Bentonite/cement mixture, Per- and polyfluoroalkyl substances (PFAS) free, for sub-slab probe surface seal.
- Moist clay for sub-slab probe surface seal and helium shroud construction.
- 1/4-inch Swagelok® nuts and ferrules (or similar), need to be PFAS free, and T-connections for connecting to SUMMA Canisters and leak testing equipment during leak testing.
- Vapor manifolds consisting of inert tubing, t-valves and stopcocks for leak testing
- Oil-less, low-flow vacuum pump for leak testing, and purging of soil vapor probe lines and annular space.
- Helium detector/meter for leak testing if using a helium shroud.
- MiniRAE, ppbRAE, or MultiRAE PID instrument if field measurements of total volatile organic compounds (VOCs) are necessary.
- HONEYWELL QRAE 3 Multi-Gas Detector or equivalent if field measurements of CO_2, O_2, CH_4 are necessary.
- Rotometer to measure flow rates during purging and leak testing before sampling when using a low-flow pump.

- Micro-manometer to measure pressure differential of sub-slab soil vapor points prior to and after sampling.
- Vacuum gauge (0 to 30 inches Hg) (to measure the initial and final vacuum of the canister and to monitor filling rate when collecting an active soil vapor sample).
- Flow controller, supplied and calibrated by laboratory (required for an active soil vapor sample).
- Generator or battery to run the vacuum pump. If generator is used, check that there is enough extension cord to place generator downwind and away from sampling location.
- Vacuum equipped with HEPA filter for collecting concrete dust during drilling activities.
- Hammer drill for sub-slab probe installation. A 5/8" drill bit is required for installing Vapor Pin® or similar sub-slab probes, 18" length will suffice for most conditions.
- 5-gallon HDPE bucket for each subsurface sampling point. Two holes drilled for rubber stoppers. New bucket to be used for shroud test for each unique subsurface sampling location.
- Nitrile gloves.
- Camera or device to take pictures.
- Flags and flagging.
- Shipping container/storage box for canisters.
- Field Sampling Log and Field Data Collection Forms.

Equipment necessary for soil gas and sub-slab soil vapor investigations may be obtained by contacting the laboratory:

- SUMMA Canister(s), flow regulators, and/or other sampling containers to be provided by the analytical laboratory.
    - Following receipt of SUMMA Canisters from the laboratory, the canisters should be inspected for physical deformities and sufficient negative pressure. Canisters with negative pressure readings less than -28 inches Hg

are acceptable sampling containers. To confirm the negative pressure, attach a flow controller to the canister and confirm O-rings are present and the seal is snug. Don a new pair of nitrile gloves, completely cover the inlet to the flow controller and briefly open the canister valve to confirm the negative pressure reading is less than -28 inches Hg. It is preferred to perform this check outside, away from traffic or other potential vapor sources.

- Flow controller for sampling supplied by analytical laboratory. A shut-in test should be performed to confirm adequate seal between the SUMMA Canisters and flow controls prior to sampling as described in Section 5.6.

5.0 PROCEDURES

5.1 General

Volatile chemicals in soil or groundwater can partition to soil vapor and migrate through the unsaturated zone towards the ground surface; pressure differentials and preferential pathways can draw vapors into buildings. Soil gas sampling is conducted to determine whether subsurface vapor-phase contamination is present, to characterize its nature and extent, and to help identify potential sources. Concentrations of volatile chemicals in sub-slab vapor can be substantially higher (e.g., by orders of magnitude) than those measured in soil gas samples collected at depth near a structure. These differences are likely attributable to site-specific factors such as soil moisture, permeability, and pressure gradients. Soil gas results are used as a supporting tool to guide investigation design and interpretation.

Representative sub-slab and soil-gas samples require low-flow purging/sampling, adequate equilibration time after probe installation, and rigorous leak detection and prevention (e.g., shut-in tests, tracer gas under a shroud, and sub-slab water-dam checks). Seasonal conditions must be considered—building depressurization during the heating season can increase VI potential; therefore sub-slab and indoor air sampling are typically scheduled during the heating season with normal indoor temperatures maintained prior to sampling. Soil gas sampling can be conducted at any time of year, with the exception of high precipitation periods where subsurface soil moisture is more likely to impact analytical results.

During a vapor intrusion investigation there are several components that have the potential to impact the results of the vapor intrusion sampling and must be considered prior to sample collection. A building inventory and owner/occupant interview should be performed prior to each sampling event and provides an opportunity to identify and minimize conditions that may interfere with the investigation. The New York State Department of Health (NYSDOH) Indoor Air Quality Questionnaire and Building Inventory will be completed. If sites are not in NYS, then State-specific forms and guidance will be followed, if available.

There are two basic types of soil vapor surveys typically performed during site assessments. The first type is an active soil vapor survey, where soil vapor is typically pumped into a sample container (e.g., SUMMA canister) or directly into an analyzer (e.g.,

photoionization detector (PID)); if sample results of higher data quality than field screening are desired, the sample containers are shipped to the laboratory for analysis.

The second type is the passive soil vapor survey, where absorbent material is buried in the vadose zone so that the contaminant vapor can be selectively absorbed over time (typically over a 1- to 2-week period). Passive soil vapor surveys are often used during site characterization to identify source areas and localized hotspots.

This PSOP covers only procedures for obtaining active soil vapor samples with SUMMA Canisters (or similar devices).

Active soil vapor sampling that does not involve direct measurement of samples (by field screening methods). This is typically conducted by using laboratory supplied SUMMA Canisters. SUMMA Canisters are stainless-steel vessels that have inert inner surfaces to prevent potential reactions with organic contaminants in air. The SUMMA Canisters are pre-cleaned and prepared for sampling by repeated pressurization with humidified air, heat, and evacuation at the laboratory. Vapor samples are typically analyzed by U.S. Environmental Protection Agency Method TO-15. The State procedures for collecting soil vapor samples will be followed.

Active soil vapor samples (also known as integrated samples) can be collected over a 5 minute to 24-hour period by connecting the SUMMA Canister to a flow controller that is pre-calibrated by the laboratory to the sampling time required to fill up the canister. Flow controllers should not exceed 0.2 liters per minute to minimize outdoor air infiltration during sampling.

5.2 Site-specific Considerations

Site-specific conditions to consider for soil vapor surveys include the following:

- *Sampling depth*: Soil vapor samples should be collected in the vadose zone and above the capillary fringe. Generally, soil vapor samples should not be collected actively at depths above 5 feet below ground surface (bgs) because of the risk of leakage and dilution of the sample with ambient air. Sampling at multiple depths should be considered.
- *Building construction characteristics*: Foundation type and integrity impact preferential pathways for vapor intrusion. Presence and operation of HVAC

systems, elevator shafts, utility conduits, fireplaces or other mechanical equipment have the potential to impact airflow patterns within the building.

- *Recent renovations*: New carpeting, recent painting, new furniture, and other materials have the potential of off-gassing volatile chemicals.

- *Soil permeability*: It might not be feasible to collect soil vapor from tight-grain soil with little pore volume, such as clay. If there are clay layers in the subsurface, these intervals should be avoided. During purging and sampling, the vacuum in the sampling system should never exceed 7 inches of mercury (inches Hg) (100 inches of water). High vacuums can be caused by tight-grain soil, wet soil, or an unreleased expendable probe tip.

- *Precipitation/Irrigation*: Soil vapor sampling should generally not be performed for 48 hours after a significant precipitation event (more than 1 inch of precipitation). Irrigation should be ceased 24 to 48 hours before sampling event. Soil moisture can displace the soil vapor, dissolve volatile organic compounds, and increase the vacuum during sampling. Generally, at depths greater than 3 feet bgs, soil vapor is unlikely to be affected by precipitation. If soil vapor samples are taken at less than 3 feet bgs, then the percent of moisture in the soil should be measured.

- *Seasonal changes*: Soil vapor concentrations can vary significantly with fluctuating groundwater table elevation, soil moisture, temperature, and barometric pressure. Consideration should be given to the season and weather conditions during sampling. Multiple sampling events during the annual cycle may be needed to characterize the soil vapor adequately.

- *Contaminant types*: Some contaminants (such as hydrocarbons) are readily biodegradable. Field measurements of natural bioattenuation field parameters (carbon dioxide [CO2], oxygen [O2], and methane [CH4]) should be considered for sites where biodegradable contaminants are present and natural bioattenuation may be active.

5.3 Building Inventory Review

A pre-sampling building inspection should be performed prior to each sampling event to identify and minimize potential sample interference. The inventory should focus on each room of the floor(s) where samples will be collected. The inspection should follow

the methods described by the NYSDOH 2006 Soil Vapor Intrusion Guidance document. The NYSDOH Indoor Air Quality Questionnaire and Building Inventory forms will be completed.

The inspection should include identification of the type of structure, floor layout, air flows and other physical conditions of the building. With the use of a PID, screen products within the building and compile a list to identify potential sources of chemical vapors from within the building.

Products identified containing contaminants of concern, or display evidence of off-gassing, should be removed from the sampling area, or building, if possible, a minimum 24-hour prior to sample collection. In addition to product screening, the following building information should be collected:

- Construction characteristics including foundation cracks, utility penetrations or other openings that have the potential to serve as preferential pathways.
- Presence of an attached garage.
- Recent renovations including fresh paint, use of petroleum-based finishes, new carpet or new furniture/upholstery.
- Mechanical equipment that can impact pressure gradients and air flow (heating system, air handler, exhaust fans, elevator shafts, etc.).

5.4 Soil Gas Probe Installation

Soil vapor probes should generally be deployed by using these procedures.
Modifications to these procedures might be necessary depending on project objectives or site conditions.

- Every probe should be at least five feet away from any other drilled or pushed location to avoid short circuiting.
- Soil vapor samples should generally not be collected from depths shallower than five feet bgs to avoid dilution of samples with ambient air.
- All down hole equipment (for example, soil vapor drive rods and continuous core soil sampling equipment) must be decontaminated before use. After the equipment is decontaminated, the probes must be free of contaminants. At a minimum, a suitably sensitive organic vapor meter (such as a PID) should be used

for this purpose. Any probe that does not pass a decontamination inspection should not be used.

- Install temporary post-run tubing (PRT)-style soil vapor probes by using a direct push drill rig to push the PRT to the desired sampling depth, making sure that this depth a minimum of two feet above the highest expected water levels, as field conditions allow. In limited-access locations, a fencepost hammer potentially can be used to push the PRT to the desired sampling depth for shallow locations in relatively soft soil. Retract 6 inches to create an annular space for sampling.
- The inner soil vapor pathway from probe tip to the surface should be continuously sealed (for example, with a sampling tube attached to a screw adapter fitted with a seal and connected to the probe tip) to prevent infiltration.
- During sampling of temporary soil vapor probes, hydrated bentonite or some other surface seal may be used around the drive rod at ground surface to prevent ambient air intrusion from occurring (the material needs to be PFAS free).
- Install permanent or semi-permanent soil vapor probes by using a direct push drill rig or a hand auger. Push down to the desired sampling depth, making sure that this depth is approximately two feet above the highest expected water levels.
    - Special consideration should be given in areas with groundwater that have the potential to be tidally influenced.
- Install permanent or semi-permanent, stainless-steel soil vapor implants into the borehole.
- The inner soil vapor pathway from the soil vapor implant to the surface should be sealed continuously with tubing to prevent infiltration.
- Backfill with clean silica sand to at least 0.5 foot above the soil vapor probe. Add enough bentonite powder to create a 2 inch 'dry' layer followed by hydrated bentonite grout. When possible, create a 1 to 2-foot sampling zone and seal with at least 3 feet of bentonite above the screen to adequately seal the hole and prevent contribution from ambient air during sampling.
- After installation, allow at least 30 minutes for temporary sampling points and at least 24 hours for permanent sampling points for equilibration before purging with leak test followed by sampling.
- Prepare soil vapor probe manifolds. Attach sampling tubing to soil vapor probes by using a 1/4-inch fitting with a ferrule at the surface end of the tubing. Tubing

diameter should be small (1/8 or 1/4 inch) to avoid turbulent flow. A few feet of extra tubing coming out of the borehole is necessary to place the SUMMA Canister and stage leak testing equipment at the sampling location.

- Soil vapor sample integrity is verified by using a real time helium leak checking procedure before taking each sample. This leak checking procedure must be done after installation of each probe and before sampling as well as before each subsequent sample collected from permanent probes. Follow leak testing and SUMMA Canister deployment procedures outlined below. Low-flow purge rates should not exceed 200 milliliters per minute during purging to limit stripping, creation of preferential pathways, and dilution with ambient air.
- If an adequate seal cannot be obtained an additional soil vapor probe should be installed in a new borehole and the leak test conducted again. Unless the leak test is passed, the SUMMA Canisters, or similar sampling device, should not be deployed.
- Soil samples can be collected from ground surface down to the desired soil gas sampling depth when drilling a borehole for installation of semi-permanent soil vapor probes. Soil sample collection beyond the soil sample probe depth in the same borehole is not recommended because of the risk for leakage of soil vapor from deeper in the borehole, if necessary, a bentonite seal should be utilized to minimize the risk of leakage. If soil samples are required to be collected at greater depths, a separate soil boring should be drilled a minimum of 5 feet away from the soil vapor probe. The soil boring should be sealed with grout or hydrated bentonite chips to avoid leakage of ambient air to the soil vapor probe.

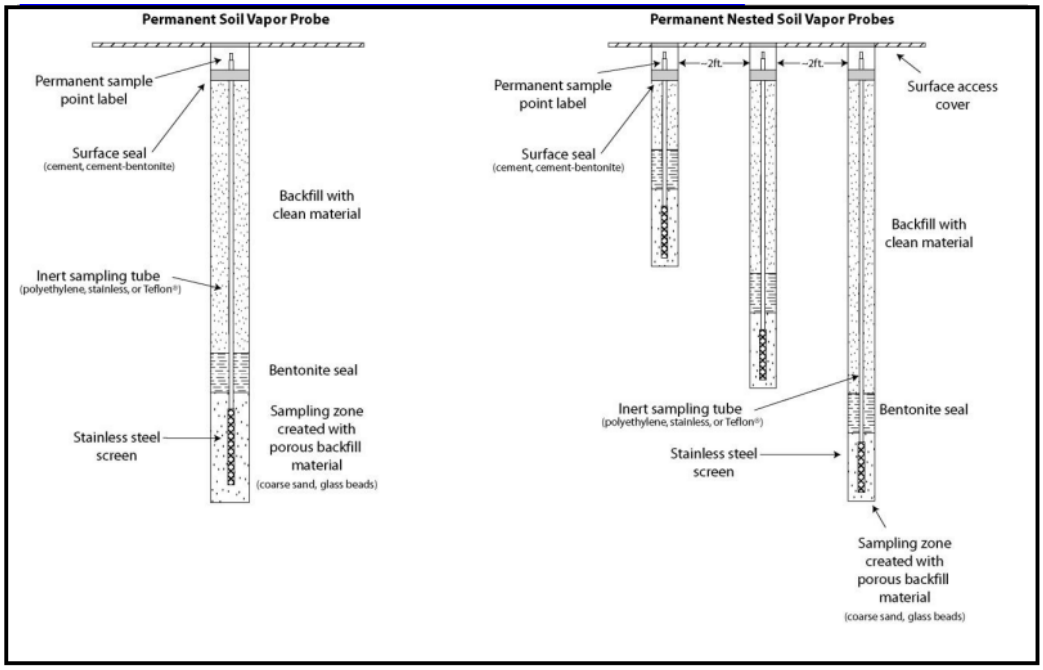


Figure 2.2
Schematics of a generic permanent soil vapor probe
and permanent nested soil vapor probes
[Note: Many variations exist and may be proposed in a work plan. Proposed installations should meet the sampling objectives and requirements of the analytical methods.]

Figure 2.2 taken from the NYSDOH Soil Vapor Intrusion Guidance, 2006.

5.5 Sub-slab Soil Vapor Probe Installation

Sub-slab vapor probes generally should be deployed following these procedures, though alterations to these procedures may be necessary depending on project objectives:

- Drill through the sub-slab by using a hammer drill. First, drill a 7/8-inch- or 1-inch-diameter hole to a depth of 1 3/4 inches (measured to the center of the hole) to allow room for installing the probe nut and probe union. (Skip this step if installing a temporary sub-slab point.)
- Remove the cuttings and dust from the hole by using a vacuum cleaner (shop-vac type with HEPA filter). Be careful not to compromise the integrity of the slab during drilling (for example, cracking it), although note if this occurs. It is important that the slab and the probe hole remain airtight for sampling and that cracks are noted.

- Drill a 5/16-inch-, 5/8-inch, or 3/8-inch-diameter hole through the remainder of the slab and approximately 3 inches down into the sub-slab material by using the hammer drill. A 5/8-inch diameter hole is required for Vapor Pin installation.
- Clean out the drilled hole by using the vacuum cleaner with HEPA filter (equipped with a micro tip).
- Remove concrete dust from the drilled hole with a vacuum cleaner or Shop-Vac® with HEPA filter.
- Construct sub-slab vapor probes of appropriate length and install in the sub-slab hole.
- Seal around probe with clay or bentonite/cement. Allow 10 minutes for clay or 24 hours for bentonite/cement to dry.
- Sample integrity is verified by using a real time helium leak checking procedure before taking each sample. This leak checking procedure must be done after installation of each probe and before sampling. Follow leak testing and SUMMA Canister deployment procedures as outlined in this PSOP. A water dam test can be performed to aid in confirming the quality of the seal by pouring a small quantity of water around the seal and confirming no water is lost to the subsurface.
- If the leak test fails, fortify the probe seal by adding more sealing material, and repeat the purge and leak check procedure.
- If an adequate seal cannot be obtained, an additional sub-slab probe should be installed and the leak test conducted again. Unless the leak test is passed, the SUMMA Canisters should not be deployed.

5.6 Purging and Leak Testing before Active Soil Vapor or Sub-Slab Vapor Sampling

Before sample collection, determine the dead volume by adding the internal volume of the sample tubing to the annular space at the probe tip. Purge at least three dead volumes to remove ambient air from the sampling system before collecting the sample.

Shut-in leak testing is necessary to determine if the soil vapor probe or sub-slab vapor probe will provide a discrete sample from the desired sampling depth (as opposed to obtaining an air sample from the ground surface above the borehole or sub-slab where it was installed). This may cause an insufficient seal of the flow controller to the SUMMA

canister, by short circuiting around the soil vapor probe tubing, or by cracks in the surrounding formation or slab.

To complete the shut-in leak test, begin by connecting the sample tubing to a vapor manifold (manifolds/shut-in test kits available from the laboratory), and connecting the manifold to the flow controller, which is attached to the SUMMA canister. Close off the one-way connector from the sample tubing to the vapor manifold and use a disposable syringe to evacuate air within the tubing and create a vacuum within the manifold. Use the flow controller to monitor the pressure and allow 5 minutes to pass. Confirm the pressure change in the flow controller is less than 0.1 inches of mercury to ensure there are no leaks in the connections.

5.7 Active Soil Vapor and Sub-Slab Vapor Sample Collection

An active sample should be collected by using a flow controller for a period of 5 minutes to 24 hours. A gauge is used to record the initial and final vacuum and to monitor the vacuum as the canister fills. Final vacuum, canister number, and flow controller number are to be recorded on the sample tag, chain-of-custody form, and Field Sampling Logs.

Active sampling results provide data that indicate the average concentration present in soil vapor, which is useful for determining exposure hazards. Soil vapor samples will be analyzed for parameters determined in the work plan. The general field sampling procedures for sampling are as follows:

- The SUMMA Canisters are certified clean and evacuated by the laboratory to near absolute zero pressure. Care should be used at all times to prevent inadvertent loss of canister vacuum.
- Never open canister valves unless collecting a sample or checking canister pressure.
- Check the initial vacuum of the canister with the "vacuum gauge" provided by opening the canister valve as described in Section 5.2; record the vacuum reading on the sample tag attached to the canister.
- Place the SUMMA Canisters in a relatively secure location, away from vehicle traffic or other sources of vapor or fumes unrelated to the sampling objective.
- Connect the flow controller and pressure gauge to the SUMMA Canister. The flow controller should be set to closed (no flow) position.

- Attach the flow controller by using a 1/4-inch female fitting to the inlet of the canister (which is a 1/4-inch male fitting); confirm O-ring is present at connection point, tighten the threaded nut until it is hand tight. Do not cross the threads.
- Use a wrench to gently tighten the flow controller to the canister inlet until it is snug. Do not over-tighten the connection as this may influence the calibrated flow rate or create a leak.
- After tightening, the flow controller should not be able to be turned on the top of the canister by hand.
- Complete a shut-in leak test of the tubing connections and flow controller connection to the SUMMA canister as described above in Section 5.6.
- To start sampling, turn the canister valve clockwise, one and one-half to two complete rotations. Note the flow controller number, start time and start pressure on the sample tag attached to the sample canister.
- The flow controller is preset for sample collection at the desired sampling rate. No field adjustments are possible. Note the calibrated flow rate on the Field Sampling Logs.
- Record the sampling date, time (start of sampling and time of day), canister identification (ID), flow controller ID, and any other observation pertinent to the sampling event on the Field Sampling Log.
- Allow 30-60 minutes to pass to determine approximate flow rate of the regulator. Roughly 1 inch per hour for 24-hour samples and 3 inches per hour for 8-hour samples.
- After sampling for the appropriate amount of time (see site specific work plan), close the sample valve and the canister valve. After closing the valves, remove the flow controller from the canister, replace the dust cap, and package all equipment in the box in which they were received.
- The final pressure should be close to -1 and -5 inches Hg (nearly atmospheric pressure). To avoid the potential for laboratory sample dilution, the final pressure should be greater than -15 inches Hg.
- If the canister is at atmospheric pressure when the field final pressure check is performed, the sampling period will be uncertain; this information should be noted in the Field Sampling Log; also record the time of day.

- Confirm an identification tag is attached to the canister. The canister serial number, sample number, sampling location, and sample completion date and time (end of sampling collection time) are recorded on the tag (the regulator number, start date and time were already recorded).
- Record the sample identification, initial/final vacuum measurement, canister number, flow controller number, and start and stop information (date/time) on the laboratory chain-of-custody form.

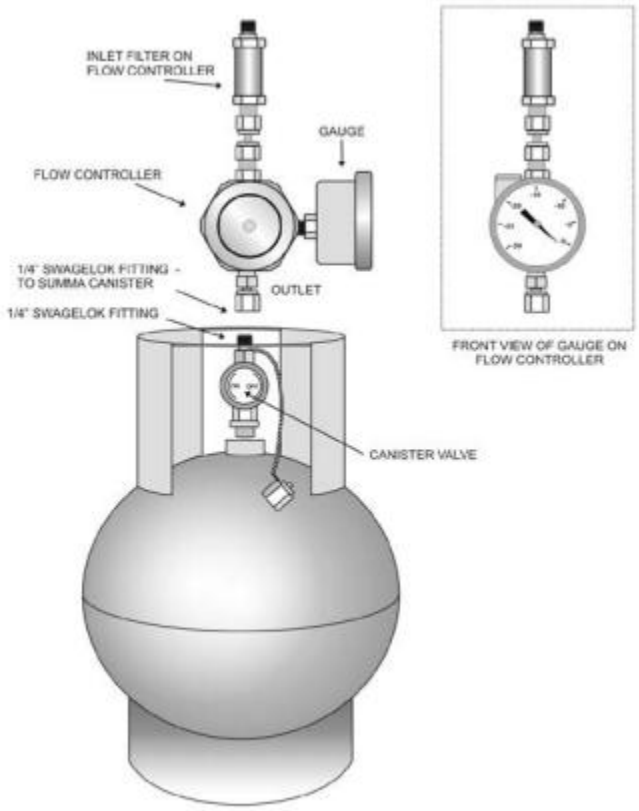


Diagram from Eurofins Lancaster Laboratories Environmental, LLC (ELLE)

5.8 Integrated Quality Assurance and Quality Control

Field Duplicate: A field duplicate sample should be collected from the same sampling point as the primary sample, using a nylon tee or specialized flow regulator. When a field duplicate cannot be collected due to site conditions, a sequential replicate sample that preserves identical conditions may be used in place of a typical field duplicate.

Interference Control: Where feasible, prohibit fueling, solvent use, use of strong markers, fragrances, or operating engines near sample locations during sampling; store equipment to prevent cross-contamination.

Custody/Documentation: Use custody seals and complete chain-of-custody (COC) forms from collection through delivery; match lab canister/controller IDs; match indoor air (TO-15 SIM) versus soil gas/sub-slab soil vapor (TO-15) canisters to flow regulators; confirm holding times and acceptance checks upon receipt.

5.9 Sub-Slab Vapor Probe and Soil Gas Screen Removal

Soil vapor probes should generally be removed by using these procedures:

- Temporary probes: Remove sample tubing and any clay/bentonite used for the helium shroud. Following the removal of clay/bentonite, hydraulic cement should be utilized to patch the drilled hole used for sample collection. Use a vacuum or a damp cloth to clean the area surrounding the sample location.
- Vapor Pins: Remove the Vapor Pin by attaching the extraction tool to the pin and continue to screw on the tool until the Vapor Pin becomes loose. If the pin does not become loose, gently rock the extraction tool back and forth while pulling the tool away from the ground to remove the Vapor Pin. Use a vacuum or a damp cloth to clean the area surrounding the sample location.
- Vapor Screens: Oscillate the sample tubing to create an opening in the bentonite used for the surface seal of the vapor point. Extract the sample tubing with the vapor screen attached.

Following the removal of the soil vapor and sub-slab vapor probes, return the surface conditions to pre-installation conditions. For concrete foundations, utilize hydraulic water-stop cement to patch drilled holes.

6.0 RECORDS

All field measurements will be recorded in the Field Sampling Log. Field measurements should include a field sketch of the sampling location, with the ID # or reference of the sample written on the field sketch (include coordinates when available), sample probe depth, slab depth, odors present, HVAC status, initial and final canister pressure, sample collection start and end time, serial numbers of sample canisters and flow meters, and information on any other equipment used. In addition, if active soil gas sampling is conducted, leak testing parameters and shut-in test results will be recorded on the field log. PID readings will be recorded at sampling locations where total VOC measurements are necessary.

Other field parameters (such as CO_2, O_2, and CH_4) should be considered and as applicable recorded at sampling locations where bioattenuation may be significant.

7.0 VAPOR PIN DECONTAMINATION PROCEDURE

Vapor Pins should generally be decontaminated following the manufacturers' procedures. Decontaminate the Vapor Pins using an alconox/water solution and rinse water, then heat in an oven to a temperature of 265 °F. Heat for 30 minutes for stainless steel and 8 minutes for brass Vapor Pins. Decontamination of Vapor Pins should be completed by the trained C.T. Male personnel.

APPENDIX C

QUALITY ASSURANCE PROJECT PLAN

April 2026
Revised June 2026
Revised August 2026

Quality Assurance Project Plan

Hamilton Hill Revitalization - Anchor Site
750 State Street
City of Schenectady
Schenectady County, New York
NYSDEC Site #C447055

DRAFT

Prepared by:

C.T. MALE ASSOCIATES
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Latham, New York 12110
(518) 786-7400

C.T. Male Associates Project No: 23.3588

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C.T. MALE ASSOCIATES ENGINEERING, SURVEYING, ARCHITECTURE, LANDSCAPE ARCHITECTURE & GEOLOGY, D.P.C.

QUALITY ASSURANCE PROJECT PLAN
HAMILTON HILL REVITALIZATION - ANCHOR SITE
750 STATE STREET
CITY OF SCHENECTADY, SCHENECTADY COUNTY, NY

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Attachment A: Organizational Chart
Attachment B: Personnel Resumes
Attachment C: Lab Certifications

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QUALITY ASSURANCE PROJECT PLAN
HAMILTON HILL REVITALIZATION - ANCHOR SITE
750 STATE STREET
CITY OF SCHENECTADY, SCHENECTADY COUNTY, NY

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Attachment I: Soil Vapor (SV) Sampling Point Construction Log
Attachment J: Soil Vapor (SV)/Air Sampling Log

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ACRONYM LIST

ARARs – Applicable or relevant and appropriate requirements

ASP – Analytical Services Protocol

COC – Chain-of-custody

DER – Division of Environmental Remediation

DQO – Data quality objective

DUSR – Data Usability Summary Report

EC – Emerging contaminants

EPA – Environmental Protection Agency, also known as USEPA

HASP – Health & Safety Plan

HDPE – High Density Polyethylene

LCS – Laboratory control sample

LOQ – Limit of quantitation

MDL – Method detection limit

MS – Matrix spike

MSD – Matrix spike duplicate

NYSDEC – New York State Department of Environmental Conservation

PARCCS – Precision, accuracy, representativeness, completeness, comparability, and sensitivity

PFAS – Per-and polyfluoroalkyl substances

Name	Acronym	CAS Number
4:2-Perfluorohexane sulfonic acid	4:2FTS	757124-72-4
6:2-Perfluorooctane sulfonic acid	6:2FTS	27619-97-2
8:2-Perfluorodecane sulfonic acid	8:2FTS	39108-34-4
N-ethyl perfluorooctanesulfonamidoacetic acid	NEtFOSAA	2991-50-6
N-methyl perfluorooctanesulfonamidoacetic acid	NMeFOSAA	2355-31-9
Perfluorobutanesulfonic acid	PFBS	375-73-5
Perfluorobutanoic acid	PFBA	375-22-4
Perfluorodecanesulfonic acid	PFDS	335-77-3
Perfluorodecanoic acid	PFDA	335-76-2
Perfluorododecanoic acid	PFDoA	307-55-1
Perfluoroheptanesulfonic acid	PFHpS	375-92-8
Perfluoroheptanoic acid	PFHpA	375-85-9

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Perfluorohexanesulfonic acid	PFHxS	355-46-4
Perfluorohexanoic acid	PFHxA	307-24-4
Perfluorononanoic acid	PFNA	375-95-1
Perfluorooctanesulfonamide	PFOSA	754-91-6
Perfluorooctanesulfonic acid	PFOS	1763-23-1
Perfluorooctanoic acid	PFOA	335-67-1
Perfluoropentanoic acid	PFPeA	2706-90-3
Perfluorotetradecanoic acid	PFTeDA	376-06-7
Perfluorotridecanoic acid	PFTrDA	72629-94-8
Perfluoroundecanoic acid	PFUnDA	2058-94-8
Perfluoropentansulfonic acid	PFPeS	2706-91-4
Perfluorononanesulfonic acid	PFNS	68259-12-1
Perfluorododecanesulfonic acid	PFDoS	79780-39-5
N-methyl perfluorooctanesulfonamide	NMeFOSA	31506-32-8
N-ethyl perfluorooctanesulfonamide	NEtFOSA	4151-50-2
N-methyl perfluorooctanesulfonamidoethanol	NMeFOSE	24448-09-7
N-ethyl perfluorooctanesulfonamidoethanol	NEtFOSE	1691-99-2
Hexafluoropropylene oxide dimer acid	HFPO-DA	13252-13-6
4,8-Dioxa-3H-perfluorononanoic acid	ADONA	919005-14-4
Perfluoro-3-methoxypropanoic acid	PFMPA	377-73-1
Perfluoro-4-methoxybutanoic acid	PFMBA	863090-89-5
Nonafluoro-3,6-dioxaheptanoic acid	NFDHA	151772-58-6
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	9C1-PF3ONS	756426-58-1
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	11C1-PF3OUdS	763051-92-9
Perfluoro(2-ethoxyethane)sulfonic acid	PFEESA	113507-82-7
3-Perfluoroproyl propanoic acid	3:3FTCA	356-02-5
2H,2H,3H,3H-Perfluorooctanoic acid	5:3FTCA	914637-49-3
3-Perfluoroheptyl propanoic acid	7:3FTCA	812-70-4

PFAS listed above are listed in Appendix G: PFAS Analyte List of Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, April 2023.

PSOP – Project Specific Operating Procedure

QA – Quality assurance

QAM – Quality Assurance Manual

QAPP – Quality Assurance Project Plan

QC – Quality control

RPD – Relative percent difference

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RL – Reporting limit

RI – Remedial Investigation

SPLP – Synthetic Precipitation Leaching Procedure

SVOC – Semivolatile organic compound

TAL – Target Analyte List

TCL – Target Compound List

TOC – Total organic carbon

UFP – Uniform Federal Policy

VOA – Volatile organic analysis

VOC – Volatile organic compound

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1.0 INTRODUCTION

C.T. Male Associates Engineering, Surveying, Architecture, Landscape Architecture & Geology D.P.C. (C.T. Male Associates or C.T. Male) has prepared this Quality Assurance Project Plan (QAPP) for the Remedial Investigation (RI) to be conducted at the Hamilton Hill Revitalization - Anchor Site (NYSDEC Site #C447055) located at 750 State Street in the City of Schenectady, Schenectady County, New York (the "Site").

The QAPP was prepared in a manner consistent with the following guidance documents:

- 6 NYCRR Part 375, Environmental Remediation Programs, Subparts 375-1 to 375-4 and 375-6, Effective December 31, 2025;
- DER-10 Technical Guidance for Site Investigation and Remediation, New York State Department of Environmental Conservation (NYSDEC), May 2010;
- Sampling, Analysis and Assessment of Per-and Polyfluoroalkyl Substances (PFAS) Under NYSDEC's Part 375 Remedial Programs, April 2023;
- NYSDEC CP-51 for Supplemental Soil Cleanup Objectives;
- 6 NYCRR Part 370 series for characteristics and listing of hazardous waste and hazardous waste management;
- Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 June 19898 and Addenda~~ums~~;
- United States Environmental Protection Agency (EPA) Intergovernmental Data Quality Task Force environmental requirements as specified in the Uniform Federal Policy (UFP) QAPP guidance document Part 2A Revised (March 2012);
- Data Quality Objectives for Remedial Response Activities: Development Process, EPA/540/G-87/003, USEPA, March 1987;
- EPA Guidance for Quality Assurance Project Plans, EPA QA/G-5, December 2002;
- EPA Requirements for Quality Assurance Project Plans, EPA QA/R-5, March 2001; and
- USEPA, *USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review.*

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This project specific QAPP provides the details of the organizations and the project management, objectives, data acquisition, data assessment, oversight and data review procedures associated with the project Site. Protocols for sample collection, handling, storage, chain-of-custody (COC), laboratory and/or field analyses, data evaluation and validation, and reporting are addressed. Field activities performed under this QAPP will be conducted in accordance with the applicable Project Specific Operating Procedures (PSOP) within the RI and the site-specific Health & Safety Plan (HASP).

1.1 Site History and Background

The Hamilton Hill Revitalization - Anchor Site is located at 750 State Street, City of Schenectady, Schenectady County, New York. The Site is 2.464± acres, located in an urban area, and is identified with tax map number section 49.25, block 1, lot 21.11

The site is currently vacant urban land. Most recently, the site was occupied by the Mohawk Auto Center (car dealership and service/office) until 2022. A former auto sales and service building used by Mohawk Auto Center on eastern portion of the property was demolished in 2024.

The property has been used since at least the late 1800s for a mix of residential, commercial, and light industrial activities. Past businesses included an auto repair shop that did lacquer spraying, an awning manufacturer, a plumbing & heating shop, a coal supplier, and an auto sales & service facility.

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2.0 QAPP WORKSHEET #1 & 2 – TITLE AND APPROVAL PAGE

1. **Project Identifying Information**
    a. **Site name/project name:** Hamilton Hill Revitalization - Anchor Site
    b. **Site location/number:** 750 State Street, City of Schenectady, Schenectady County, New York / NYSDEC Site #C447055.
    c. **Property Owner:** Capital Region Land Bank
    d. **C.T. Male Client:** Albany State Street Limited Partnership
2. **Lead Organization – Albany State Street Limited Partnership**
    i. **Authorized Agent (name/title/signature/date):**

    _____

    Jesse Batus, Authorized Agent
3. **Other Stakeholders (as needed)**
    a. **Consulting Engineers:** C.T. Male Associates
        i. **Project Manager Principal (name/title/signature/date):**

        _____

        Daniel Reilly, P.E. / Environmental Services Manager

        ii. **Project Manager (name/title/signature/date):**

        _____

        Aimee Smith / Project Manager

        iii. **Health & Safety Manager (name/title/signature/date):**

        _____

        Nancy Garry, P.E., CSP / Sr. Environmental Engineer

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iv. Division Operations Manager (name/title/signature/date):

_____

Jon Dippert, P.G. / Environmental Division Operations Manager

v. Quality Assurance (QA) Manager (name/title/signature/date):

_____

Jeffrey A. Marx, P.E. / Managing Environmental Engineer

vi. Site Safety Officer (name/title/signature/date):

_____

Ryan Hubbard, I.G. / Geologist III

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3.0 QAPP WORKSHEET #3 & 5 – PROJECT ORGANIZATIONAL AND QAPP DISTRIBUTION

This section identifies the reporting relationships between organizations involved in the project, including the lead organization and contractors and subcontractor organizations. It also includes recipients of controlled copies of the QAPP. The organizational chart in Attachment A of the QAPP identifies pertinent personnel, contractors and subcontractors who are responsible for document control within their organizations. Site-specific work plans may identify other personnel in similar roles.

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4.0 QAPP WORKSHEET #4, 7 & 8 – PERSONNEL QUALIFICATIONS AND SIGN-OFF SHEET

This section identifies project personnel associated with each organization, contractor, and subcontractor participating in responsible roles. This includes the project manager, QA manager, project contacts for organizations involved in the project, the project health & safety officer, field operation personnel, and the analytical services provider. This worksheet also lists individuals' project titles or roles; qualifications; and any specialized/non-routine training, certifications, or clearances required by the project. Signatures indicate personnel have read and understand how to implement this QAPP as written and that the QAPP will be kept on-file at each organization.

ORGANIZATION: C.T. Male Associates of Latham, New York (C.T. Male)

Name	Title/Role	Education/Experience/Certifications	Signature/Date
Daniel Reilly, P.E.	Project Principal	See resumé included in Attachment B of the QAPP	See Section 2.0 of the QAPP, titled worksheet #1 & 2
Aimee Smith	Project Manager	See resumé included in Attachment B of the QAPP	See Section 2.0 of the QAPP, titled worksheet #1 & 2
Nancy Garry, P.E., CSP	Health & Safety Manager	See resumé included in Attachment B of the QAPP	See Section 2.0 of the QAPP, titled worksheet #1 & 2
Jon Dippert, P.G.	Division Operations Manager	See resumé included in Attachment B of the QAPP	See Section 2.0 of the QAPP, titled worksheet #1 & 2
Jeffrey A. Marx, P.E.	QA Manager	See resumé included in Attachment B of the QAPP	See Section 2.0 of the QAPP, titled worksheet #1 & 2
Ryan Hubbard	Site Safety Officer/ Field Coordinator	See resumé included in Attachment B of the QAPP	See Section 2.0 of the QAPP, titled worksheet #1 & 2

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ORGANIZATION: Pace Analytical Services, LLC of Westborough and Mansfield, Massachusetts (Pace).

Name	Title/Role	Specialized Training/ Certifications	Signature/Date
Candace Fox	Project Manager	Training as required by laboratory QA Manual, Laboratory Certifications in Attachment C of the QAPP	
Jason Hebert	QA Manager	Training as required by laboratory QA Manual, Laboratory Certifications in Attachment C of the QAPP	

ORGANIZATION: Environmental Data Services of Palm Beach Gardens, Florida (EDS)

Name	Title/Role	Specialized Training/ Certifications	Signature/Date
Nancy Weaver	President	See resumé included in Attachment B of the QAPP	

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5.0 QAPP WORKSHEET #6 – COMMUNICATION PATHWAYS

Communication pathways for this project are shown below.

Communication Driver	Organization	Name	Contact Information	Procedure (Timing, pathway, etc.)
Regulatory Agency Interface	NYSDEC	Robert J. Doyle	Office (O): 518-357-2393 robert.doyle@dec.ny.gov	C.T. Male will contact Jesse Batus and the regulatory agency (NYSDEC) via email if issues with the implementation of this QAPP occur impacting data quality, when comments to the submittals occur, and when new field sampling plans are identified for implementation.
	C.T. Male	Aimee Smith	Cell (C): 518-223-2413 a.smith@ctmale.com	
	Albany State Street Limited Partnership	Jesse Batus	O: 646-374-4754 JBatus@tcbinc.org	
Laboratory Problems/ Corrective Actions	C.T. Male	Jeffrey A. Marx	O: 518-786-7548 j.marx@ctmale.com	C.T. Male's QA Manager will be the contact for the laboratory should the laboratory experience issues with project samples. Environmental Data Services, Inc. (EDS) will contact the laboratory if issues are discovered from data validation.
	EDS	Nancy Weaver	O: 757-564-0090 nweaver@env-data.com	
	Pace Lab	Candace Fox	O: 716-427-5223 candace.fox@pacelabs.com	
Field Problems/ Corrective Actions	C.T. Male	Aimee Smith	O: 518-786-7551 a.smith@ctmale.com	C.T. Male field staff will contact the C.T. Male Project Manager and/or Field Services Manger to discuss difficulties encountered during field activities. They will coordinate with their QA Manager, as needed and appropriate. C.T. Male will contact the NYSDEC via email.
		Jon Dippert	O: 518-786-7563 j.dippert@ctmale.com	
	NYSDEC	Robert J. Doyle	O: 518-357-2393 robert.doyle@dec.ny.gov	

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Communication Driver	Organization	Name	Contact Information	Procedure (Timing, pathway, etc.)
Safety Issues	C.T. Male	Jon Dippert	O: 518-786-7563 j.dippert@ctmale.com	C.T. Male field staff will contact the C.T. Male Field Services Manager and/or Health & Safety Officer and work may stop until safety issues are cleared. NYSDEC may be contacted if safety issues delay obtaining/reporting of data.
		Nancy Garry	O: 518-786-7541 n.garry@ctmale.com	
Field Activity Modifications	NYSDEC	Robert J. Doyle	O: 518-357-2393 robert.doyle@dec.ny.gov	Albany State Street Limited Partnership and C.T. Male will propose modifications to current sampling program via periodic updates or otherwise as needed. Reduction of testing parameters or frequencies will be performed in consultation with and approval from NYSDEC.
	C.T. Male	Aimee Smith	C: 518-223-2413 a.smith@ctmale.com	
	Albany State Street Limited Partnership	Jesse Batus	O: 646-374-4754 JBatus@tcbinc.org	

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6.0 QAPP WORKSHEET #9 – PROJECT SCOPING SESSION PARTICIPANTS SHEET

As noted in the introduction, investigation activities will be conducted in accordance with an RI Work Plan and an IRM Work Plan that have been approved by the NYSDEC. The sampling and analysis activities implemented as part of additional investigations or studies will follow the protocols set forth in this QAPP. Additionally, this QAPP will be updated as needed based on the planned sampling and analysis activities.

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7.0 QAPP WORKSHEET #10 – SITE MODEL

The Site is listed in the Non-Registry Sites in New York State and is identified as a "Class A" or active site with a Site Number of C447055 pursuant to the Brownfield Cleanup Program with contaminants in soil, fill, and groundwater at concentrations exceeding regulatory standards and guidance values.

Parameters that will be analyzed to evaluate the environmental quality of the Site's media include the Target Compound List (TCL) of volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides and polychlorinated biphenyls (PCBs); the Target Analyte List (TAL) of metals; cyanide; the emerging contaminants (ECs) per- and polyfluoroalkyl substances (PFAS) and 1,4-dioxane; pH; total organic carbon (TOC); and percent moisture. The laboratory performing the analytical services is identified in Table 1 of the QAPP, which includes the laboratory's address and the list of parameters the laboratory will perform.

Regardless of the units provided by the laboratory as outputs of the laboratory analyses, the RIWP data tables will be formatted to coincide with the units for the particular regulatory/guidance criteria for each contaminant/media.

The Site consists of a single merged parcel encompassing the former addresses 742 through 758 ½ State Street and 729 through 765 Albany Street and is currently comprised of vacant urban land. Development of the Site dates to at least the late 1880s and historically included a dense mix of residential, retail and commercial uses. Beginning in the early 20th century the Site became increasingly dominated by automotive-related activities, including auto sales, service, repair, vehicle storage and associated parking. The Site was most recently occupied by Mohawk Auto Center until 2022 for which the primary auto sales and service building (dating to at least 1930) was demolished in 2024. Additional historical commercial and light industrial uses across the Site included lacquer spraying operations, awning manufacturing, plumbing and heating services, a coal distribution company, paint retail and heating service facilities, with most buildings demolished by 2011. The past commercial and light industrial uses of the Site may have contributed to COCs at the Site including select VOCs, SVOCs, and metals in Site media although this has not been confirmed. The preliminary site model is further described within Section 2.8 of the RI Work Plan.

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The sample type, laboratory analysis, sampling method and sampling rationale for the samples collected during the RI are summarized in the site-specific work plan.

The proposed sampling activities are presented in the scope of work and are described in more detail in the RI Work Plan.

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8.0 QAPP WORKSHEET #11 – PROJECT/DATA QUALITY OBJECTIVES

Data Quality Objectives (DQOs) are qualitative and quantitative statements that clearly state the objective of a proposed project, define the most appropriate type of data to collect, determine the appropriate conditions for data collection, and specify acceptable decision error limits that establish the quantity and quality of data needed for decision making.

DQOs for measurements during this project will be addressed in terms of the data quality indicators: precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS). The numerical PARCCS parameters will be determined from the project DQOs to ensure that they are met. The DQOs and resulting PARCCS parameters will require that the sampling be performed using standard methods with properly operated and calibrated equipment and conducted by trained personnel and are summarized in Worksheet #12 of the QAPP.

The laboratory performing the analytical services is detailed in Table 1 of the QAPP, which includes the addresses and the list of parameters that the lab may perform. Other laboratories may need to perform analyses if a laboratory has an unplanned event such as an instrument breakdown. The parameter would be analyzed by a subcontract laboratory that has accreditation in New York for the same method, where applicable. If possible, the subcontract laboratory would have similar limits as the primary laboratory. Any subcontracting of analyses will be approved by C.T. Male prior to sample submittal.

The sample type, laboratory analysis, sampling method and sampling rationale for the samples collected during the site investigations and routine monitoring is summarized in the site-specific work plans.

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9.0 QAPP WORKSHEET #12 – MEASUREMENT PERFORMANCE CRITERIA TABLE

This worksheet displays the data quality indicator, quality control (QC) activity, matrix, and measurement performance criteria for both the sampling and analytical measurement systems. Matrix groups may include but are not limited to the following:

- Water – groundwater
- Solid – fill and soil
- Air – soil gas, outdoor air

Data Quality Indicator	QC sample or measurement performance activity	Matrix Group	Measurement Performance Criteria
Precision (field)	Field duplicate samples	Water, solid, air	Values > 5x reporting limit (RL)/limit of quantitation (LOQ); relative percent difference (RPD) ≤ 30%
Precision (laboratory)	Laboratory duplicate samples or Laboratory control samples (LCS) and LCS duplicates	Water, solid, air	Values > RL; method-specific (See Table 2 of the QAPP)
Overall accuracy/bias (field and laboratory) /representativeness	Field, equipment, rinsate blanks	Water and solid	No target analyte concentrations ≥ RL/LOQ
	Laboratory Trip blanks	Water (VOCs)	
Overall accuracy/bias (laboratory)	Method blanks	Water, solid, air	No target analyte concentrations ≥ RL/LOQ
Analytical accuracy/bias/precision (laboratory)	LCS and LCS duplicates	Water, solid, air	Analyte-specific (See Table 2 of the QAPP)
Analytical accuracy/bias/precision (laboratory)	Matrix Spikes (MS) and Matrix Spike Duplicates (MSD)	Water and solid	Analyte-specific (See Table 2 of the QAPP)
Analytical accuracy/bias (laboratory)	Surrogate recoveries	Water and solid	Analyte-specific (See Table 2 of the QAPP)

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Data Quality Indicator	QC sample or measurement performance activity	Matrix Group	Measurement Performance Criteria
Sensitivity	Samples reported to method detection limit (MDL), where applicable	Water, solid, air	Analyte-specific (See Table 2 of the QAPP)
Completeness	See Worksheet #34	Water, solid, air	See Worksheet #34 of the QAPP

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10.0 QAPP WORKSHEET #13 – SECONDARY DATA USES AND LIMITATIONS TABLE

Analytical data and information to be used for the project, prior to this QAPP, was collected in accordance with previous work plans. The originating sources are identified. Analytical data obtained prior to this QAPP is presented.

Data type	Source	Data uses relative to current project	Factors affecting the reliability of data and limitations on data use
Subsurface Investigation, March 18, 2003.	NETC	Records search as part of the RI Work Plan.	Analytical data was not validated by a third party data validator.
Remedial Investigation & Tank Closure Program, September 22, 2003	NETC	Records search as part of the RI Work Plan.	Analytical data was not validated by a third party data validator.
Phase II Environmental Site Assessment, June 1, 2023.	LaBella Associates	Records search as part of the RI Work Plan.	Analytical data was not validated by a third party data validator.
Phase II Environmental Site Assessment, January 5, 2024.	C.T. Male Associates	Records search as part of the RI Work Plan.	Analytical data was not validated by a third party data validator.
Supplemental Subsurface Assessment, October 2, 2024.	C.T. Male Associates	Records search as part of the RI Work Plan.	Analytical data was not validated by a third party data validator.
NYSDEC Spill Record Sheet	NYSDEC	Records search as part of the RI Work Plan.	Analytical data was not validated by a third party data validator

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11.0 QAPP WORKSHEET #14 & 16 – PROJECT TASKS & SCHEDULE TABLE

Listed are the project activities as well as the QA assessments that will be performed during the course of the project.

Activities	Organization	Dates		Deliverable(s)	Anticipated Deliverable Due Date
		Anticipated Date(s) of Initiation	Anticipated Date of Completion		
Collect soil, fill, groundwater, soil gas, and outdoor air quality samples, and associated QC samples, per the RI Work Plan.	C.T. Male	Fall 2026	Winter 2026/2027	Field reports and sample results	Winter 2027
Laboratory analyses	Pace	Fall 2026	Winter 2027	Laboratory reports (Category B Data Package)	Winter 2027
Data evaluation / validation	Environmental Data Services	After receipt of data reports in Winter 2026/2027	Winter 2027	Evaluation or validation report entitled 'Data Usability Summary Report (DUSR)'	Winter 2027
Summarizing data	C. T. Male	After receipt of data reports in Winter 2026/2027	Winter 2027	Telephone, email, progress reports	Winter 2026/2027

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Activities	Organization	Dates		Deliverable(s)	Anticipated Deliverable Due Date
		Anticipated Date(s) of Initiation	Anticipated Date of Completion		
Uploading data to NYSDEC EQuIS	C. T. Male	After receipt and review of DUSRs in Fall/Winter 2026	Winter 2027	Submission of data packages to online NYSDEC EQuIS system	Winter 2026/2027
Remedial Investigation Report	C.T. Male	After receipt and review of relevant data reports in Fall/Winter 2026	Winter/Spring2027	Submission to NYSDEC	Winter 2026/2027

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12.0 QAPP WORKSHEET #15 – PROJECT ACTION LIMITS AND LABORATORY-SPECIFIC DETECTION/QUANTITATION LIMITS

Analytical data quality objectives are used to ensure that the analysis will accurately and adequately identify the contaminants of concern. The applicable or relevant and appropriate requirements (ARARs) are related to defining satisfactory cleanup efforts. To be able to evaluate the data generated with respect to potential ARARs, the samples will be reported to the MDL (where applicable). The analytical methods selected for this project are designed to achieve ARAR values. The laboratory limits for specific parameters are included in Table 2 of the QAPP.

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13.0 QAPP WORKSHEET #17 – SAMPLING DESIGN AND RATIONALE

The design and rationale of the sampling program is outlined in Worksheet #10 of the QAPP and is specified in the RI Work Plan.

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14.0 QAPP WORKSHEET #18 – SAMPLING LOCATIONS AND METHODS

The RI Work Plan provides specific detail regarding the individual sample locations and methods.

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15.0 QAPP WORKSHEET #19 & 30 – SAMPLE CONTAINERS, PRESERVATION, AND HOLD TIMES TABLE

Sample Parameters, Matrix, Containers, Preservation, Hold Times per Analytical Group

Analytical Group	Matrix	Containers (number, size & type per sample)[1]	Preservation[2]	Preparation/ Analytical Holding Time[3]
PFAS (1633A)	Water	500 mL and 250 mL or 125 mL high density polyethylene (HDPE)	Cool ≤6°C	28 days to extraction; analysis within 90 days of extraction when stored 0-4°C in a dark location
		Same as above	≤ -20 °C (at lab)	Up to 90 days.
	Solid	500mL HDPE jar	Cool ≤6°C or ≤ -20 °C	Up to 90 days
TCL VOCs	Water	3-40 mL glass VOA vials	HCl to pH<2, cool ≤6°C, no headspace	14 days. Unpreserved samples - 7 days
	Soil	Terracore / 4 oz glass jar with septa	1:1 solvent or zero headspace, cool ≤6°C. Additional unpreserved for %moisture if solvent collection	48 hours from sample collection to preservation; 14 days
TCL SVOCs	Water	2-250 mL amber glass	Cool ≤6°C	7 days until extraction/analysis within 40 days of extraction
	Soil	8 oz glass jar	Cool ≤6°C	14 days until extraction/analysis within 40 days of extraction
TCL Pesticides	Water	2-120 mL amber glass	Cool ≤6°C	7 days until extraction/analysis within 40 days of extraction
	Soil	8 oz. glass jar	Cool ≤6°C	14 days until extraction/analysis within 40 days of extraction
TCL PCBs	Water	2-120 mL amber glass	Cool ≤6°C	1 year until extraction / analysis within 365 days of extraction
	Soil	8 oz. glass jar / each analysis	Cool ≤6°C	1 year until extraction / analysis within 365 days of extraction
TAL Metals	Water	250 ml plastic	HNO_3 to pH <2 Cool, 4°C	180 days to analysis
	Soil	4 oz. glass jar	Cool ≤6°C	
Mercury	Water	250 ml plastic	HNO_3 to pH <2 Cool, 4°C	28 days to analysis

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Analytical Group	Matrix	Containers (number, size & type per sample)(1)	Preservation(2)	Preparation/ Analytical Holding Time(3)
	Soil	4 oz. glass jar	Cool ≤6°C	
Cyanide	Water	250 ml plastic	NaOH	14 days to analysis
	Soil	4 oz. glass jar	Cool ≤6°C	
1,4-Dioxane	Water	2 - 250 mL amber glass	Cool ≤6°C	7 days until extraction/analysis within 40 days of extraction
TOC	Solid	4 oz. glass jar	Cool ≤6°C	28 days
pH	Solid	4 oz. glass jar	Cool ≤6°C	As soon as possible
Moisture, %	Solid	4 oz. glass jar	Cool ≤6°C	Not applicable
TO-15	Air	Evacuated, certified clean canister	NA	30 days

Legend:
HDPE = High Density Polyethylene
VOA = Volatile Organic Analysis
SPLP = Synthetic Precipitation Leaching Procedure
TOC = Total Organic Carbon
HNO_3 = Nitric Acid

(1) Container types and sizes listed are for guidance only. Laboratories may use different containers or combine analyses into larger volume containers.
(2) Cool ≤ 6 °C will be chilled using regular ice only.
(3) Holding time starts from date of collection unless otherwise noted.
Note: Laboratory standard operating procedures (SOPs) are retained at each laboratory's place of business and are available upon request for review.

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16.0 QAPP WORKSHEET #20 – FIELD QUALITY CONTROL SUMMARY

The site-specific work plans may provide additional detail on the sample type, parameter, frequency, and sampling methods of field QC samples. Internal laboratory quality control checks will be those specified in EPA Methods or in the most recent NYSDEC Analytical Services Protocol (ASP) for the analytical method performed.

The laboratory will be responsible for performing what is necessary for complying with appropriate standards and certifications of the selected EPA method and NYSDEC ASP requirements. The laboratory quality control acceptance criterion is method specific and will be the laboratory's responsibility to meet the most recent NYSDEC ASP criteria.

At a minimum, the following field quality control samples will be collected:

Matrix	Analytical Group	No. of Field Duplicate Pairs	No. of MS/MSD	No. of Laboratory Trip Blanks	No. of Equip. Blanks	No. of Rinsate (Rinse) Blanks or Material Checks
Water, solid	All analytical groups	5% of total number sampled or one sample per media, whichever is greater	5% of total number sampled per media	One per cooler for VOC	5% of total number sampled per media and at a minimum of one per day for PFAS when decontamination of sampling equipment has occurred.	One per lot/batch of new equipment/ Material, if needed.
Air	All analytical groups	1 per 20 samples	None	None	None	None

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17.0 QAPP WORKSHEET #21 – PROJECT SAMPLING PSOP REFERENCES

The field activities for this Site will include collecting samples of water, solid and air matrix groups (see worksheet #12 of the QAPP) for laboratory analysis. The procedures relative to implementing these field activities are included in the RI Work Plan. As described in the RI Work Plan, specific precautions will be implemented when sampling for PFAS compounds to prevent cross contamination.

A blank monitoring well construction log is included in Attachment D of the QAPP and a blank surface soil sampling log is included as Attachment E of the QAPP. A blank subsurface exploration log is included as Attachment F. A blank organic vapor headspace analysis log is included as Attachment G. A blank well low-flow purging log is included as Attachment H. A blank soil vapor sampling point construction log is included as Attachment I. A blank soil vapor/air sampling log is included as Attachment J.

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18.0 QAPP WORKSHEET #22 – FIELD EQUIPMENT CALIBRATION, MAINTENANCE, TESTING, AND INSPECTION

The field equipment calibration, maintenance, testing, and inspection information are included in the RI Work Plan.

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19.0 QAPP WORKSHEET #23 – ANALYTICAL AND VALIDATION SOPS

The laboratory's SOPs and the data validation SOPs are retained at each place of business and are available upon request for review once each laboratory's specific protocols have been followed. Modifications to methods performed are summarized below.

TO-15 Low-level and SIM modifications

- < 30% RSD is allowed for 4 compounds instead of 2 compounds as listed in TO-15.
- UHP Nitrogen is used for blanks and standards instead of Zero Air since it provides a higher purity gas matrix.

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20.0 QAPP WORKSHEET #24 – ANALYTICAL INSTRUMENT CALIBRATION

The analytical instrument calibration information is included in the laboratory quality assurance manual (QAM) and/or the appropriate SOP. These documents are retained at each laboratory's place of business and are available upon request for review.

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21.0 QAPP WORKSHEET #25 – ANALYTICAL INSTRUMENT AND EQUIPMENT MAINTENANCE, TESTING, AND INSPECTION

The analytical instrument and equipment maintenance, testing, and inspection information are included in the laboratory QAM and/or the appropriate SOP. These documents are retained at each laboratory's place of business and are available upon request for review.

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22.0 QAPP WORKSHEET #26 & 27 – SAMPLE HANDLING, CUSTODY, AND DISPOSAL

Sampling Organization: C.T. Male Associates
Laboratories: Pace of Westborough, MA or Mansfield, MA
Method of sample delivery (shipper/carrier): Pace provided courier or FedEx/UPS
Number of days from reporting until sample disposal: As documented in laboratory QAM.

The PSOPs within the RI Work Plan describe the various methods and techniques to be followed during the completion of the sampling activities, instrument operation and calibration, and chain-of-custody procedures. As described, specific precautions will be implemented when sampling for PFAS compounds to prevent cross contamination.

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23.0 QAPP WORKSHEET #28 –ANALYTICAL QUALITY CONTROL AND CORRECTIVE ACTION

The analytical quality control and corrective action information are included in the laboratory QAM and/or the appropriate laboratory SOP. These documents are retained at the laboratory's place of business and are available upon request for review. Corrective action may be requested of the laboratory if issues arise that affect the quality of the data.

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24.0 QAPP WORKSHEET #29 – PROJECT DOCUMENTS AND RECORDS TABLE

The documents and records that will be generated for the project including, but not limited to, sample collection and field measurement, analysis, and data assessment, are noted below.

Sample Collection Documents and Records	Generation	Verification	Where Maintained
Field Documents Field Notes Field Sample Forms COC Records Field Instrument Calibration Logs Sampling Notes Photographs Health and Safety Plan	C.T. Male Field Staff	C.T. Male Project Manager or designees	Field documents generated by C.T. Male field staff will be maintained in the project file located at C.T. Male offices until scanned and electronically filed. Documents should be scanned as soon as possible upon return to the office.
Project Report Documents Project sign-off forms Project report submittals	C.T. Male Project Staff	C.T. Male Project Manager/Approval by NYSDEC Project Manager	Report documents will be maintained in the project file located at C.T. Male offices until scanned and electronically filed.
Laboratory Documents Sample receipt, custody, and tracking record Equipment calibration logs (electronically stored) Sample preparation logs (electronically stored) Analysis Run Logs (electronically stored) Raw data	Laboratory Project Manager	Laboratory QA Manager	As detailed in the laboratories QAM, data is typically retained for a period of 5 years from the report date.
Correspondence	C.T. Male Project Staff	C.T. Male Project Manager/Approval by NYSDEC Project Manager (as applicable)	Project communications regarding the work plans, QAPP and schedule will be kept at C.T. Male offices.

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Laboratory Data Deliverables									
Laboratory Record	**TCL VOCs**	**TCL SVOCs (including 1,4-dioxane)**	**TCL Pesticides**	**TCL PCBs**	**TAL Metals**	**Cyanide / Mercury**	**PFAS**	**Other (non-organic)***	**TO-15**
Narrative	X	X	X	X	X	X	X	X	X
COC and any additional receiving documentation	X	X	X	X	X	X	X	X	X
Sample Results	X	X	X	X	X	X	X	X	X
QC Results	X	X	X	X	X	X	X	X	X
Raw Data (including but not limited to the following where appropriate - preparation logs, tune checks, DDT/Endrin breakdown, instrument logs, tailing factor, chromatograms)	X	X	X	X	X	X	X	X	X
NYSDEC ASP Category B deliverables	X	X	X	X	X	X	X	X	X
EQuIS Version 4 EDDs	X	X	X	X	X	X	X	X	X
Notes: * pH, % moisture, TOC COC = Chain of custody EDD = Electronic Data Deliverables QC = Quality Control DDT = dichloro-diphenyl-trichloroethane NYSDEC = New York State Department of Environmental Conservation ASP = Analytical Service Protocols									

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25.0 QAPP WORKSHEET #31, 32, & 33 – ASSESSMENTS AND CORRECTIVE ACTION TABLE

Assessments:

Assessment Type	Responsible Party & Organization	Number/ Frequency	Estimated Dates	Assessment Deliverable	Deliverable due date
Review of field procedures	C.T. Male QA Manager and/or Field Service Manager and /or designee for work completed by C.T. Male	As warranted by identification of an exception to protocols	Determined in accordance to the level of exception	On-site audit and documentation of corrective action, as required by exception	1 month from completion of audit and assessment
Review of field notes/deviations from work plans	C.T. Male QA Manager and/or Field Service Manager and/or designee for work completed by C.T. Male	Upon completion of routine monitoring round or investigation phase	Ongoing	Documentation of review	With the completion of an investigation or monitoring progress report.
Review of COCs	Laboratory, C. T. Male QA Manager and/or designee for samples collected by C.T. Male	Every event/report	Within 5 days of receipt	Documentation of review	Ongoing
Review/validation analytical reports	Environmental Data Services Inc.	Level IIA every event / report and Level IV determined on a case-by-case basis	Ongoing	Evaluation or validation report entitled DUSR	Ongoing

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Assessment Response and Corrective Action:

Assessment Type	Responsibility for responding to assessment findings	Assessment Response Documentation	Timeframe for Response	Responsibility for Implementing Corrective Action	Responsible for monitoring
Review of field procedures	C.T. Male - QA Manager and/or Project Manager	Written report	30 days	C.T. Male QA Manager and/or Field Service Manager and /or designee for work completed by C.T. Male	Project Manager and/or QA Manager, C.T. Male
Review of field notes/deviations from work plans	C.T. Male – Project Manager	Note in field notes, project file, retained in correspondence	Immediately to within 3 days of deviation	C.T. Male QA Manager and/or Field Service Manager and/or designee for work completed by C.T. Male	QA Manager, C.T. Male
Review of COCs	C.T. Male - QA Manager / Laboratory	Note on COC	Immediately to within 3 days of discrepancy	Laboratory, C. T. Male QA Manager and/or designee for samples collected by C.T. Male	QA Manager, C.T. Male
Review analytical reports	C.T. Male – QA Manager	QA/QC Summary Sheet	Immediately to within 3 days of discrepancy	QA Manager, C.T. Male, Project Manager, Laboratory	QA Manager, C.T. Male or Project Manager or Laboratory
Review Validation Analytical Reports	Alpha (Pace) / Environmental Data Services	QA/QC Summary Sheet	Immediately to within 3 days of discrepancy	QA Manager, C.T. Male Project Manager, Laboratory	QA Manager, C.T. Male Project Manager, Laboratory

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26.0 QAPP WORKSHEET #34 – DATA VERIFICATION AND VALIDATION INPUTS TABLE

The following worksheets define the data verification and validation process. This worksheet describes how each item will be verified. Worksheets #35 and #36 describe when specific activities will occur, what documentation is necessary and identifies the person(s) responsible for field and analytical data, respectively.

Item	Description	Verification (Completeness)	Validation (conformance to specifications)
Planning Documents / Records			
1	Approved QAPP	X	
2	Contract	X	
3	Field PSOP	X	
4	Laboratory SOP	X	
Field Records			
5	Field Notes	X	X
6	Equipment calibration records	X	X
7	COC forms	X	X
8	Sampling diagrams / surveys	X	X
9	Relevant correspondence	X	X
10	Change orders / deviations	X	X
11	Field audit reports	X	X
12	Field corrective action reports	X	X
Analytical Data Package (Verified by the Laboratory QA Officer)			
13	Cover sheet (laboratory identifying information)	X	X
14	Case narrative	X	X
15	Internal laboratory COC	X	X
16	Sample receipt records	X	X
17	Sample chronology (i.e., dates and times of receipt, preparation, and analysis	X	X
18	Definition of laboratory qualifiers	X	X
19	Results reporting forms	X	X
20	QC sample results	X	X
21	Compound(s) identified and reported in proper units	X	X

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Item	Description	Verification (Completeness)	Validation (conformance to specifications)
22	Labeled sample chromatograms (organics)	X	X
23	Electronic data deliverable	X	X
24	Communication records	X	X
25	MDL/RL establishment and verification	X	X
26	Standards traceability	X	X
27	Instrument calibration records	X	X
28	Corrective action reports	X	X
29	Raw data	X	X

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27.0 QAPP WORKSHEET #35 – DATA VERIFICATION PROCEDURES TABLE

Described below are the processes that will be followed to validate project field data.

Records Reviewed	Requirement Documents	Process Description	Responsible Person, Organization
Field notes and forms	QAPP, Field PSOPs	Verify that records are present and complete for each day of field activities. Verify that planned samples were collected and that sample collection locations are documented. Verify that changes/exceptions are documented and reported in accordance with requirements. Verify that required field monitoring was performed and results are documented.	C.T. Male Project Manager and/or Field Services Manager for work completed by C.T. Male field staff.
COC forms	QAPP, Field PSOPs	Verify the completeness of COC records. Examine entries for consistency with the field notes. Verify that required signatures and dates are present. Check for transcription errors.	C.T. Male Project Manager and/or Field Services Manager for work completed by C.T. Male field staff.
Laboratory analytical reports	QAPP	Level IIA data review is performed for every event/report. Level IV is determined on a case-by-case basis. The evaluation/validation report entitled DUSR will be provided to NYSDEC.	Environmental Data Services

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28.0 QAPP WORKSHEET #36 – DATA VALIDATION PROCEDURES

The data validator is responsible for review of the analytical data generated for this Site. The data validator will review analytical data and prepare a report documenting if the analytical data is valid and usable. The report will also present data rejection and qualification, where necessary, based on laboratory performance. The data validation will conform to NYSDEC DER-10, Appendix 2B, Data Usability Summary Reports (DUSR).

External data validation will be performed by an independent data validator who will utilize the applicable analytical method, standard laboratory practices and where applicable, NYSDEC ASP Category B Data Deliverable, the USEPA National and Regional Validation Guidelines/Procedures to determine the applicable qualifications of the data. This will include an evaluation of the laboratory raw data which may include but is not limited to the following:

- Analytical holding times
- Instrument performance checks
- Initial and continuing calibration
- Blanks
- Laboratory control samples
- Deuterated/surrogate compounds
- Matrix spike and spike duplicate samples
- Internal standards
- Target compound identification
- Target compound quantitation
- System performance
- Overall assessment of data

The validator will then prepare a DUSR of the review. The data validation company for this project is Environmental Data Services Inc.

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29.0 QAPP WORKSHEET #37 – DATA USABILITY ASSESSMENT

Described below are the procedures / methods / activities that will be used to determine whether data are of the right type, quality, and quantity to support environmental decision making for the project. Also noted are how data quality issues will be addressed and how limitations on the use of the data will be handled.

Personnel (organization and position/title) responsible for participating in the data usability assessment:

Pace Laboratory QA manager, C.T. Male Project Manager, C.T. Male QA Manager, Environmental Data Services President

The usability of the data will be assessed based on a review of the field measurements and laboratory results. The laboratory results will be reviewed by the laboratory and EDS prior to submittal and by the C.T. Male QA Manager upon receipt.

Step 1	**Review the project's objectives and sampling design** Review the key outputs defined during systematic planning (i.e., DQOs) to make sure they are still applicable. Review the sampling design for consistency with stated objectives. This step provides the context for interpreting the data in subsequent steps.
Step 2	**Review the data verification and data validation outputs** Review available QA reports, including the data verification and/or data validation reports. Perform basic calculations and summarize the data (using graphs, maps, tables, etc.). Look for patterns, trends, and anomalies (i.e., unexpected results). Review deviations from planned activities (e.g., number and locations of samples, holding time exceedances, damaged samples, and PSOP deviations) and determine their impacts on the data usability. Evaluate implications of unacceptable QC sample results.

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Step 3	**Verify the assumptions of the selected statistical method** Verify whether underlying assumptions for selected statistical methods (if documented in the QAPP) are valid. Common assumptions include the distributional form of the data, independence of the data, dispersion characteristics, homogeneity, etc. Depending on the robustness of the statistical method, minor deviations from assumptions usually are not critical to statistical analysis and data interpretation. If serious deviations from assumptions are discovered, another statistical method may need to be selected.
Step 4	**Implement the statistical method** Implement the specified statistical procedures for analyzing the data and review underlying assumptions. For decision projects that involve hypothesis testing (e.g., "concentrations of lead in groundwater are below the action level") consider the consequences for selecting the incorrect alternative; for estimation projects (e.g., establishing a boundary for surface soil contamination), consider the tolerance for uncertainty in measurements.
Step 5	**Document data usability and draw conclusions** Determine if the data can be used as intended, considering implications of deviations and corrective actions. Discuss data quality indicators. Assess the performance of the sampling design and identify limitations on data use. Update the conceptual site model and document conclusions in the site characterization investigation report.

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TABLES OF THE QAPP

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Table 1
Laboratory Analyses
Hamilton Hill Revitalization - Anchor Site
750 State Street, City of Schenectady, Schenectady County, New York

Pace Analytical Services, LLC 8 Walkup Drive Westborough, MA 01581 and Pace Analytical Services, LLC 320 Forbes Boulevard Mansfield, MA 02048	<u>Matrices</u> TCL VOCs (soil and water) – EPA 8260D/5035 High & low (5035 for soil only) TCL SVOCs incl. 1-4, Dioxane (soil and water) – EPA 8270E /SIM (LVI) for water TCL Pesticides (soil and water) – EPA 8081B TCL PCBs (soil and water) – EPA 8082A PFAS (soil and water) – EPA 1633A Metals (soil and water) – EPA 6010D/6020B Mercury (soil and water) EPA 7471B/7470A Cyanide (soil and water) – EPA 9010C / EPA 9012B 1,4-dioxane (water) – EPA 8270E / SIM (LVI) Total Organic Carbon (TOC) (soil and water) – Lloyd Kahn & 9060A pH (soil) – EPA 9045D % moisture (soil) – SM 2540 G TO-15 (soil gas and outdoor air)

The NYSDOH ELAP Certification Lab ID Numbers are 11148 for Pace's Westborough, MA facility and 11627 for Pace's Mansfield, MA facility.

TABLE 2A: PARAMETERS - METHODS, LIMITS, ACCURACY, AND PRECISION (SOIL)
HAMILTON HILL REVITALIZATION - ANCHOR SITE
CITY OF SCHENECTADY, SCHENECTADY COUNTY

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
PFAAs via LCMSMS-Isotope Dilution (SOIL) - Draft EPA Method 1633										
Perfluorobutanoic Acid (PFBA)	375-22-4	0.8	0.536	ng/g	70-140	30	70-140	30	30	
Perfluoropentanoic Acid (PFPeA)	2706-90-3	0.4	0.08	ng/g	60-150	30	60-150	30	30	
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	0.2	0.05	ng/g	65-145	30	65-145	30	30	
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	0.8	0.154	ng/g	60-150	30	60-150	30	30	
Perfluorohexanoic Acid (PFHxA)	307-24-4	0.2	0.164	ng/g	65-140	30	65-140	30	30	
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	0.2	0.028	ng/g	55-160	30	55-160	30	30	
Perfluoroheptanoic Acid (PFHpA)	375-85-9	0.2	0.072	ng/g	65-145	30	65-145	30	30	
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	0.2	0.05	ng/g	60-150	30	60-150	30	30	
Perfluorooctanoic Acid (PFOA)	335-67-1	0.2	0.044	ng/g	70-150	30	70-150	30	30	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	0.8	0.48	ng/g	55-200	30	55-200	30	30	
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	0.2	0.034	ng/g	65-155	30	65-155	30	30	
Perfluorononanoic Acid (PFNA)	375-95-1	0.2	0.032	ng/g	70-155	30	70-155	30	30	
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	0.2	0.104	ng/g	65-160	30	65-160	30	30	
Perfluorodecanoic Acid (PFDA)	335-76-2	0.2	0.05	ng/g	70-155	30	70-155	30	30	
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	0.8	0.236	ng/g	70-150	30	70-150	30	30	
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	0.2	0.094	ng/g	55-140	30	55-140	30	30	
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	0.2	0.096	ng/g	65-155	30	65-155	30	30	
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	0.2	0.088	ng/g	70-155	30	70-155	30	30	
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	0.2	0.094	ng/g	40-155	30	40-155	30	30	
Perfluorooctanesulfonamide (FOSA)	754-91-6	0.2	0.114	ng/g	70-140	30	70-140	30	30	
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	0.2	0.078	ng/g	65-165	30	65-165	30	30	
Perfluorododecanoic Acid (PFDoA)	307-55-1	0.2	0.1	ng/g	70-150	30	70-150	30	30	
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	0.2	0.092	ng/g	65-150	30	65-150	30	30	
Perfluorotetradecanoic Acid (PFTA)	376-06-7	0.2	0.146	ng/g	65-150	30	65-150	30	30	
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propar	13252-13-6	0.8	0.16	ng/g	70-145	30	70-145	30	30	
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	0.8	0.284	ng/g	70-160	30	70-160	30	30	
Perfluorododecane Sulfonic Acid (PFDoDS)	79780-39-5	0.2	0.094	ng/g	25-160	30	25-160	30	30	
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS	756426-58-1	0.8	0.156	ng/g	70-150	30	70-150	30	30	
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3	763051-92-9	0.8	0.396	ng/g	45-160	30	45-160	30	30	
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	0.2	0.06	ng/g	70-155	30	70-155	30	30	
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	0.2	0.066	ng/g	70-140	30	70-140	30	30	
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	2	0.25	ng/g	70-140	30	70-140	30	30	
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	2	0.242	ng/g	70-135	30	70-135	30	30	
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	0.4	0.036	ng/g	30-140	30	30-140	30	30	
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	0.4	0.052	ng/g	60-150	30	60-150	30	30	
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	0.4	0.048	ng/g	70-140	30	70-140	30	30	
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	0.4	0.12	ng/g	60-155	30	60-155	30	30	
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	1	0.346	ng/g	45-130	30	45-130	30	30	
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	5	1.404	ng/g	60-130	30	60-130	30	30	
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	5	1.95	ng/g	60-150	30	60-150	30	30	
Perfluoro[13C4]Butanoic Acid (MPFBA)	*NONE*									*8-130*

TABLE 2A: PARAMETERS - METHODS, LIMITS, ACCURACY, AND PRECISION (SOIL)
HAMILTON HILL REVITALIZATION - ANCHOR SITE
CITY OF SCHENECTADY, SCHENECTADY COUNTY

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	*NONE*									*35-130*
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	*NONE*									*40-135*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2F	*NONE*									*40-165*
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	*NONE*									*40-130*
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	*NONE*									*40-130*
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	*NONE*									*40-130*
Perfluoro[13C8]Octanoic Acid (M8PFOA)	*NONE*									*40-130*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2F	*NONE*									*40-215*
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	*NONE*									*40-130*
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	*NONE*									*40-130*
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	*NONE*									*40-130*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2F	*NONE*									*40-275*
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-	*NONE*									*40-135*
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	*NONE*									*40-130*
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	*NONE*									*40-130*
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NI	*NONE*									*40-150*
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	*NONE*									*40-130*
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	*NONE*									*20-130*
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-	*NONE*									*40-130*
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)	*NONE*									*10-130*
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)	*NONE*									*10-130*
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-	*1265205-95-5*									*20-130*
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-N	*NONE*									*15-130*

TABLE 2A: PARAMETERS - METHODS, LIMITS, ACCURACY, AND PRECISION (SOIL)
HAMILTON HILL REVITALIZATION - ANCHOR SITE
CITY OF SCHENECTADY, SCHENECTADY COUNTY

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
TCL Volatiles - EPA 8260D/5035 High&Low (SOIL)										
Methylene chloride	75-09-2	5	2.29	ug/kg	70-130	30	70-130	30	30	
1,1-Dichloroethane	75-34-3	1	0.145	ug/kg	70-130	30	70-130	30	30	
Chloroform	67-66-3	1.5	0.14	ug/kg	70-130	30	70-130	30	30	
Carbon tetrachloride	56-23-5	1	0.23	ug/kg	70-130	30	70-130	30	30	
1,2-Dichloropropane	78-87-5	1	0.125	ug/kg	70-130	30	70-130	30	30	
Dibromochloromethane	124-48-1	1	0.14	ug/kg	70-130	30	70-130	30	30	
Tetrachloroethene	127-18-4	0.5	0.196	ug/kg	70-130	30	70-130	30	30	
Chlorobenzene	108-90-7	0.5	0.127	ug/kg	70-130	30	70-130	30	30	
1,2-Dichloroethane	107-06-2	1	0.257	ug/kg	70-130	30	70-130	30	30	
1,1,1-Trichloroethane	71-55-6	0.5	0.167	ug/kg	70-130	30	70-130	30	30	
Benzene	71-43-2	0.5	0.166	ug/kg	70-130	30	70-130	30	30	
Toluene	108-88-3	1	0.543	ug/kg	70-130	30	70-130	30	30	
Ethylbenzene	100-41-4	1	0.141	ug/kg	70-130	30	70-130	30	30	
Vinyl chloride	75-01-4	1	0.335	ug/kg	67-130	30	67-130	30	30	
1,1-Dichloroethene	75-35-4	1	0.238	ug/kg	65-135	30	65-135	30	30	
trans-1,2-Dichloroethene	156-60-5	1.5	0.137	ug/kg	70-130	30	70-130	30	30	
Trichloroethene	79-01-6	0.5	0.137	ug/kg	70-130	30	70-130	30	30	
1,2-Dichlorobenzene	95-50-1	2	0.144	ug/kg	70-130	30	70-130	30	30	
1,3-Dichlorobenzene	541-73-1	2	0.148	ug/kg	70-130	30	70-130	30	30	
1,4-Dichlorobenzene	106-46-7	2	0.171	ug/kg	70-130	30	70-130	30	30	
Methyl tert butyl ether	1634-04-4	2	0.201	ug/kg	66-130	30	66-130	30	30	
p/m-Xylene	179601-23-1	2	0.56	ug/kg	70-130	30	70-130	30	30	
o-Xylene	95-47-6	1	0.291	ug/kg	70-130	30	70-130	30	30	
cis-1,2-Dichloroethene	156-59-2	1	0.175	ug/kg	70-130	30	70-130	30	30	
Styrene	100-42-5	1	0.196	ug/kg	70-130	30	70-130	30	30	
Acetone	67-64-1	10	4.811	ug/kg	54-140	30	54-140	30	30	
Carbon disulfide	75-15-0	10	4.55	ug/kg	59-130	30	59-130	30	30	
2-Butanone	78-93-3	10	2.22	ug/kg	70-130	30	70-130	30	30	
1,2,3-Trichloropropane	96-18-4	2	0.127	ug/kg	68-130	30	68-130	30	30	
1,3-Dichloropropane	142-28-9	2	0.167	ug/kg	69-130	30	69-130	30	30	
n-Butylbenzene	104-51-8	1	0.167	ug/kg	70-130	30	70-130	30	30	
sec-Butylbenzene	135-98-8	1	0.146	ug/kg	70-130	30	70-130	30	30	
tert-Butylbenzene	98-06-6	2	0.118	ug/kg	70-130	30	70-130	30	30	
Isopropylbenzene	98-82-8	1	0.109	ug/kg	70-130	30	70-130	30	30	
p-Isopropyltoluene	99-87-6	1	0.109	ug/kg	70-130	30	70-130	30	30	
n-Propylbenzene	103-65-1	1	0.171	ug/kg	70-130	30	70-130	30	30	
1,2,3-Trichlorobenzene	87-61-6	2	0.322	ug/kg	70-130	30	70-130	30	30	
1,3,5-Trimethylbenzene	108-67-8	2	0.193	ug/kg	70-130	30	70-130	30	30	
1,2,4-Trimethylbenzene	95-63-6	2	0.334	ug/kg	70-130	30	70-130	30	30	
1,4-Dioxane	123-91-1	80	35.1	ug/kg	65-136	30	65-136	30	30	
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*

TABLE 2A: PARAMETERS - METHODS, LIMITS, ACCURACY, AND PRECISION (SOIL)
HAMILTON HILL REVITALIZATION - ANCHOR SITE
CITY OF SCHENECTADY, SCHENECTADY COUNTY

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
2-Chloroethoxyethane										
Toluene-d8	*2037-26-5*									*70-130*
4-Bromofluorobenzene	*460-00-4*									*70-130*
Dibromofluoromethane	*1868-53-7*									*70-130*

TABLE 2A: PARAMETERS - METHODS, LIMITS, ACCURACY, AND PRECISION (SOIL)
HAMILTON HILL REVITALIZATION - ANCHOR SITE
CITY OF SCHENECTADY, SCHENECTADY COUNTY

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
TCL Semivolatiles - EPA 8270E (SOIL)										
Phenol	108-95-2	33.335	3.166825	ug/kg	30-130	50	30-130	50	50	
Bis(2-chloroethyl)ether	111-44-4	33.335	6.120306	ug/kg	40-140	50	40-140	50	50	
2-Chlorophenol	95-57-8	33.335	2.20011	ug/kg	30-130	50	30-130	50	50	
2-Methylphenol	95-48-7	33.335	2.86681	ug/kg	30-130	50	30-130	50	50	
Bis(2-chloroisopropyl)ether	108-60-1	33.335	5.560278	ug/kg	40-140	50	40-140	50	50	
Acetophenone	98-86-2	33.335	4.20021	ug/kg	40-140	50	40-140	50	50	
Hexachloroethane	67-72-1	33.335	5.573612	ug/kg	40-140	50	40-140	50	50	
Nitrobenzene	98-95-3	33.335	3.473507	ug/kg	40-140	50	40-140	50	50	
Isophorone	78-59-1	33.335	3.653516	ug/kg	40-140	50	40-140	50	50	
2-Nitrophenol	88-75-5	33.335	3.593513	ug/kg	30-130	50	30-130	50	50	
2,4-Dimethylphenol	105-67-9	33.335	5.493608	ug/kg	30-130	50	30-130	50	50	
Bis(2-chloroethoxy)methane	111-91-1	33.335	3.353501	ug/kg	40-140	50	40-140	50	50	
2,4-Dichlorophenol	120-83-2	33.335	3.580179	ug/kg	30-130	50	30-130	50	50	
Naphthalene	91-20-3	33.335	2.240112	ug/kg	40-140	50	40-140	50	50	
4-Chloroaniline	106-47-8	33.335	3.046819	ug/kg	40-140	50	40-140	50	50	
Hexachlorobutadiene	87-68-3	33.335	6.46699	ug/kg	40-140	50	40-140	50	50	
P-Chloro-M-Cresol	59-50-7	33.335	4.813574	ug/kg	30-130	50	30-130	50	50	
2-Methylnaphthalene	91-57-6	33.335	2.620131	ug/kg	40-140	50	40-140	50	50	
Hexachlorocyclopentadiene	77-47-4	200.01	36.53516	ug/kg	40-140	50	40-140	50	50	
2,4,6-Trichlorophenol	88-06-2	33.335	2.980149	ug/kg	30-130	50	30-130	50	50	
2,4,5-Trichlorophenol	95-95-4	33.335	3.973532	ug/kg	30-130	50	30-130	50	50	
2-Chloronaphthalene	91-58-7	33.335	2.320116	ug/kg	40-140	50	40-140	50	50	
2-Nitroaniline	88-74-4	33.335	5.386936	ug/kg	40-140	50	40-140	50	50	
Acenaphthylene	208-96-8	33.335	2.906812	ug/kg	40-140	50	40-140	50	50	
2,6-Dinitrotoluene	606-20-2	33.335	8.60043	ug/kg	40-140	50	40-140	50	50	
3-Nitroaniline	99-09-2	66.67	3.500175	ug/kg	40-140	50	40-140	50	50	
Acenaphthene	83-32-9	33.335	3.3335	ug/kg	40-140	50	40-140	50	50	
2,4-Dinitrophenol	51-28-5	200.01	56.80284	ug/kg	30-130	50	30-130	50	50	
4-Nitrophenol	100-02-7	553.361	183.3425	ug/kg	30-130	50	30-130	50	50	
Dibenzofuran	132-64-9	33.335	2.493458	ug/kg	40-140	50	40-140	50	50	
2,4-Dinitrotoluene	121-14-2	33.335	2.33345	ug/kg	40-140	50	40-140	50	50	
4-Chlorophenyl phenyl ether	7005-72-3	33.335	3.213494	ug/kg	40-140	50	40-140	50	50	
Fluorene	86-73-7	33.335	2.46679	ug/kg	40-140	50	40-140	50	50	
4-Nitroaniline	100-01-6	200.01	4.500225	ug/kg	40-140	50	40-140	50	50	
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	33.335	2.340117	ug/kg	40-140	50	40-140	50	50	
4-Bromophenyl phenyl ether	101-55-3	33.335	3.13349	ug/kg	40-140	50	40-140	50	50	
Hexachlorobenzene	118-74-1	33.335	3.246829	ug/kg	40-140	50	40-140	50	50	
Pentachlorophenol	87-86-5	200.01	59.93633	ug/kg	30-130	50	30-130	50	50	
Phenanthrene	85-01-8	33.335	2.120106	ug/kg	40-140	50	40-140	50	50	
Anthracene	120-12-7	33.335	1.700085	ug/kg	40-140	50	40-140	50	50	
Di-n-butylphthalate	84-74-2	33.335	3.173492	ug/kg	40-140	50	40-140	50	50	

TABLE 2A: PARAMETERS - METHODS, LIMITS, ACCURACY, AND PRECISION (SOIL)
HAMILTON HILL REVITALIZATION - ANCHOR SITE
CITY OF SCHENECTADY, SCHENECTADY COUNTY

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Fluoranthene	206-44-0	33.335	2.873477	ug/kg	40-140	50	40-140	50	50	
Pyrene	129-00-0	33.335	2.753471	ug/kg	40-140	50	40-140	50	50	
3,3'-Dichlorobenzidine	91-94-1	66.67	5.686951	ug/kg	40-140	50	40-140	50	50	
Chrysene	218-01-9	33.335	2.33345	ug/kg	40-140	50	40-140	50	50	
Bis(2-Ethylhexyl)phthalate	117-81-7	33.335	8.73377	ug/kg	40-140	50	40-140	50	50	
Di-n-octylphthalate	117-84-0	66.67	13.80069	ug/kg	40-140	50	40-140	50	50	
Benzo(b)fluoranthene	205-99-2	33.335	2.920146	ug/kg	40-140	50	40-140	50	50	
Benzo(k)fluoranthene	207-08-9	33.335	2.540127	ug/kg	40-140	50	40-140	50	50	
Benzo(a)pyrene	50-32-8	33.335	2.406787	ug/kg	40-140	50	40-140	50	50	
Indeno(1,2,3-cd)Pyrene	193-39-5	33.335	2.746804	ug/kg	40-140	50	40-140	50	50	
Benzo(ghi)perylene	191-24-2	33.335	2.586796	ug/kg	40-140	50	40-140	50	50	
Carbazole	86-74-8	33.335	2.126773	ug/kg	40-140	50	40-140	50	50	
Biphenyl	92-52-4	33.335	3.500175	ug/kg	40-140	50	40-140	50	50	
1,2,4,5-Tetrachlorobenzene	95-94-3	33.335	3.173492	ug/kg	40-140	50	40-140	50	50	
Atrazine	1912-24-9	33.335	2.893478	ug/kg	40-140	50	40-140	50	50	
Benzaldehyde	100-52-7	33.335	8.40042	ug/kg	40-140	50	40-140	50	50	
Caprolactam	105-60-2	66.67	4.893578	ug/kg	40-140	50	40-140	50	50	
2-Fluorobiphenyl	*321-60-8*									*30-130*
Nitrobenzene-d5	*4165-60-0*									*30-130*
2-Fluorophenol	*367-12-4*									*30-130*
2,4,6-Tribromophenol	*118-79-6*									*30-130*
TCL Pesticides - EPA 8081B (SOIL)										
Delta-BHC	319-86-8	1.6008	0.31349	ug/kg	30-150	30	30-150	50	50	
Lindane	58-89-9	0.667	0.298149	ug/kg	30-150	30	30-150	50	50	
Alpha-BHC	319-84-6	0.667	0.189428	ug/kg	30-150	30	30-150	50	50	
Beta-BHC	319-85-7	1.6008	0.60697	ug/kg	30-150	30	30-150	50	50	
Heptachlor	76-44-8	0.8004	0.358846	ug/kg	30-150	30	30-150	50	50	
Aldrin	309-00-2	1.6008	0.563615	ug/kg	30-150	30	30-150	50	50	
Heptachlor epoxide	1024-57-3	3.0015	0.90045	ug/kg	30-150	30	30-150	50	50	
Endrin	72-20-8	0.667	0.27347	ug/kg	30-150	30	30-150	50	50	
Endrin aldehyde	7421-93-4	2.001	0.70035	ug/kg	30-150	30	30-150	50	50	
Endrin ketone	53494-70-5	1.6008	0.412206	ug/kg	30-150	30	30-150	50	50	
Dieldrin	60-57-1	1.0005	0.50025	ug/kg	30-150	30	30-150	50	50	
4,4'-DDE	72-55-9	1.6008	0.370185	ug/kg	30-150	30	30-150	50	50	
4,4'-DDD	72-54-8	1.6008	0.570952	ug/kg	30-150	30	30-150	50	50	
4,4'-DDT	50-29-3	1.6008	1.28731	ug/kg	30-150	30	30-150	50	50	
Endosulfan I	959-98-8	1.6008	0.378189	ug/kg	30-150	30	30-150	50	50	
Endosulfan II	33213-65-9	1.6008	0.534934	ug/kg	30-150	30	30-150	50	50	
Endosulfan sulfate	1031-07-8	0.667	0.317492	ug/kg	30-150	30	30-150	50	50	
Methoxychlor	72-43-5	3.0015	0.9338	ug/kg	30-150	30	30-150	50	50	
Toxaphene	8001-35-2	30.015	8.4042	ug/kg	30-150	30	30-150	50	50	

TABLE 2A: PARAMETERS - METHODS, LIMITS, ACCURACY, AND PRECISION (SOIL)
HAMILTON HILL REVITALIZATION - ANCHOR SITE
CITY OF SCHENECTADY, SCHENECTADY COUNTY

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
cis-Chlordane	5103-71-9	2.001	0.557612	ug/kg	30-150	30	30-150	50	50	
trans-Chlordane	5103-74-2	2.001	0.528264	ug/kg	30-150	30	30-150	50	50	
Chlordane	57-74-9	13.34	5.30265	ug/kg	30-150	30	30-150	50	50	
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*
Decachlorobiphenyl	*2051-24-3*									*30-150*
TCL PCBs - EPA 8082A (SOIL)										
Aroclor 1016	12674-11-2	50	4.44	ug/kg	40-140	50	40-140	50	50	
Aroclor 1221	11104-28-2	50	5.01	ug/kg	40-140	50	40-140	50	50	
Aroclor 1232	11141-16-5	50	10.6	ug/kg	40-140	50	40-140	50	50	
Aroclor 1242	53469-21-9	50	6.74	ug/kg	40-140	50	40-140	50	50	
Aroclor 1248	12672-29-6	50	7.5	ug/kg	40-140	50	40-140	50	50	
Aroclor 1254	11097-69-1	50	5.47	ug/kg	40-140	50	40-140	50	50	
Aroclor 1260	11096-82-5	50	9.24	ug/kg	40-140	50	40-140	50	50	
Aroclor 1262	37324-23-5	50	6.35	ug/kg	40-140	50	40-140	50	50	
Aroclor 1268	11100-14-4	50	5.18	ug/kg	40-140	50	40-140	50	50	
PCBs, Total	1336-36-3	50	4.44	ug/kg				50	50	
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*
Decachlorobiphenyl	*2051-24-3*									*30-150*

TABLE 2A: PARAMETERS - METHODS, LIMITS, ACCURACY, AND PRECISION (SOIL)
HAMILTON HILL REVITALIZATION - ANCHOR SITE
CITY OF SCHENECTADY, SCHENECTADY COUNTY

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
METALS by 6010D (SOIL)										
Aluminum, Total	7429-90-5	4	1.3	mg/kg	80-120	20	75-125	20	20	
Antimony, Total	7440-36-0	2	1.54	mg/kg	80-120	20	75-125	20	20	
Arsenic, Total	7440-38-2	0.4	0.1728	mg/kg	80-120	20	75-125	20	20	
Barium, Total	7440-39-3	0.4	0.0424	mg/kg	80-120	20	75-125	20	20	
Beryllium, Total	7440-41-7	0.2	0.022	mg/kg	80-120	20	75-125	20	20	
Cadmium, Total	7440-43-9	0.4	0.022	mg/kg	80-120	20	75-125	20	20	
Calcium, Total	7440-70-2	4	2.268	mg/kg	80-120	20	75-125	20	20	
Chromium, Total	7440-47-3	0.4	0.3392	mg/kg	80-120	20	75-125	20	20	
Cobalt, Total	7440-48-4	0.8	0.0992	mg/kg	80-120	20	75-125	20	20	
Copper, Total	7440-50-8	0.4	0.0908	mg/kg	80-120	20	75-125	20	20	
Iron, Total	7439-89-6	10	3.2	mg/kg	80-120	20	75-125	20	20	
Lead, Total	7439-92-1	2	0.0952	mg/kg	80-120	20	75-125	20	20	
Magnesium, Total	7439-95-4	4	0.652	mg/kg	80-120	20	75-125	20	20	
Manganese, Total	7439-96-5	0.4	0.2144	mg/kg	80-120	20	75-125	20	20	
Nickel, Total	7440-02-0	1	0.3232	mg/kg	80-120	20	75-125	20	20	
Potassium, Total	7440-09-7	100	20.28	mg/kg	80-120	20	75-125	20	20	
Selenium, Total	7782-49-2	0.8	0.1316	mg/kg	80-120	20	75-125	20	20	
Silver, Total	7440-22-4	0.2	0.1192	mg/kg	80-120	20	75-125	20	20	
Sodium, Total	7440-23-5	80	42.4	mg/kg	80-120	20	75-125	20	20	
Thallium, Total	7440-28-0	0.8	0.3608	mg/kg	80-120	20	75-125	20	20	
Vanadium, Total	7440-62-2	0.4	0.0604	mg/kg	80-120	20	75-125	20	20	
Zinc, Total	7440-66-6	2	0.2424	mg/kg	80-120	20	75-125	20	20	
CYANIDE by 9010C/9012B (SOIL)										
Cyanide, Total	57-12-5	1	0.212	mg/kg	80-120	35	75-125	35	35	
MERCURY by 7471B (SOIL)										
Mercury, Total	7439-97-6	0.08	0.05216	mg/kg	80-120	20	80-120	20	20	

TABLE 2B: PARAMETERS - METHODS, LIMITS, ACCURACY AND PRECISION (WATER)
HAMILTON HILL REVITALIZATION - ANCHOR SITE
CITY OF SCHENECTADY, SCHENECTADY COUNTY

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
PFAAs via LCMSMS-Isotope Dilution (WATER) - Draft EPA Method 1633										
Perfluorobutanoic Acid (PFBA)	375-22-4	6.4	4.288	ng/l	70-140	30	70-140	30	30	
Perfluoropentanoic Acid (PFPeA)	2706-90-3	3.2	0.64	ng/l	65-135	30	65-135	30	30	
Perfluorobutanesulfonic Acid (PFBS)	375-73-5	1.6	0.512	ng/l	60-145	30	60-145	30	30	
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	757124-72-4	6.4	1.488	ng/l	70-145	30	70-145	30	30	
Perfluorohexanoic Acid (PFHxA)	307-24-4	1.6	1.312	ng/l	70-145	30	70-145	30	30	
Perfluoropentanesulfonic Acid (PFPeS)	2706-91-4	1.6	0.368	ng/l	65-140	30	65-140	30	30	
Perfluoroheptanoic Acid (PFHpA)	375-85-9	1.6	0.496	ng/l	70-150	30	70-150	30	30	
Perfluorohexanesulfonic Acid (PFHxS)	355-46-4	1.6	0.704	ng/l	65-145	30	65-145	30	30	
Perfluorooctanoic Acid (PFOA)	335-67-1	1.6	0.4	ng/l	70-150	30	70-150	30	30	
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	27619-97-2	6.4	3.84	ng/l	65-155	30	65-155	30	30	
Perfluoroheptanesulfonic Acid (PFHpS)	375-92-8	1.6	0.496	ng/l	70-150	30	70-150	30	30	
Perfluorononanoic Acid (PFNA)	375-95-1	1.6	0.256	ng/l	70-150	30	70-150	30	30	
Perfluorooctanesulfonic Acid (PFOS)	1763-23-1	1.6	1.232	ng/l	55-150	30	55-150	30	30	
Perfluorodecanoic Acid (PFDA)	335-76-2	1.6	0.416	ng/l	70-140	30	70-140	30	30	
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	39108-34-4	6.4	3.056	ng/l	60-150	30	60-150	30	30	
Perfluorononanesulfonic Acid (PFNS)	68259-12-1	1.6	0.528	ng/l	65-145	30	65-145	30	30	
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	2355-31-9	1.6	1.152	ng/l	50-140	30	50-140	30	30	
Perfluoroundecanoic Acid (PFUnA)	2058-94-8	1.6	0.704	ng/l	70-145	30	70-145	30	30	
Perfluorodecanesulfonic Acid (PFDS)	335-77-3	1.6	0.752	ng/l	60-145	30	60-145	30	30	
Perfluorooctanesulfonamide (FOSA)	754-91-6	1.6	0.912	ng/l	70-145	30	70-145	30	30	
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	2991-50-6	1.6	0.736	ng/l	70-145	30	70-145	30	30	
Perfluorododecanoic Acid (PFDoA)	307-55-1	1.6	0.8	ng/l	70-140	30	70-140	30	30	
Perfluorotridecanoic Acid (PFTrDA)	72629-94-8	1.6	0.736	ng/l	65-140	30	65-140	30	30	
Perfluorotetradecanoic Acid (PFTA)	376-06-7	1.6	1.168	ng/l	60-140	30	60-140	30	30	
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (H	13252-13-6	6.4	0.944	ng/l	70-140	30	70-140	30	30	
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	919005-14-4	6.4	1.248	ng/l	65-145	30	65-145	30	30	
Perfluorododecane Sulfonic Acid (PFDoDS)	79780-39-5	1.6	0.752	ng/l	50-145	30	50-145	30	30	
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	756426-58-1	6.4	1.248	ng/l	70-155	30	70-155	30	30	
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	763051-92-9	6.4	3.168	ng/l	55-160	30	55-160	30	30	
N-Methyl Perfluorooctane Sulfonamide (NMeFOSA)	31506-32-8	1.6	0.624	ng/l	60-150	30	60-150	30	30	
N-Ethyl Perfluorooctane Sulfonamide (NEtFOSA)	4151-50-2	1.6	0.464	ng/l	65-145	30	65-145	30	30	
N-Methyl Perfluorooctanesulfonamido Ethanol (NMeFOSE)	24448-09-7	16	1.696	ng/l	70-145	30	70-145	30	30	
N-Ethyl Perfluorooctanesulfonamido Ethanol (NEtFOSE)	1691-99-2	16	1.44	ng/l	70-135	30	70-135	30	30	
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	377-73-1	3.2	0.144	ng/l	55-140	30	55-140	30	30	
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	863090-89-5	3.2	0.832	ng/l	60-150	30	60-150	30	30	
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	113507-82-7	3.2	0.4	ng/l	70-140	30	70-140	30	30	
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	151772-58-6	3.2	0.944	ng/l	50-150	30	50-150	30	30	
3-Perfluoropropyl Propanoic Acid (3:3FTCA)	356-02-5	8	2.064	ng/l	65-130	30	65-130	30	30	
2H,2H,3H,3H-Perfluorooctanoic Acid (5:3FTCA)	914637-49-3	40	11.488	ng/l	70-135	30	70-135	30	30	
3-Perfluoroheptyl Propanoic Acid (7:3FTCA)	812-70-4	40	12.08	ng/l	50-145	30	50-145	30	30	
Perfluoro[13C4]Butanoic Acid (MPFBA)	*NONE*									*5-130*
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	*NONE*									*40-130*
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	*NONE*									*40-135*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	*NONE*									*40-200*

TABLE 2B: PARAMETERS - METHODS, LIMITS, ACCURACY AND PRECISION (WATER)
HAMILTON HILL REVITALIZATION - ANCHOR SITE
CITY OF SCHENECTADY, SCHENECTADY COUNTY

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	*NONE*									*40-130*
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	*NONE*									*40-130*
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	*NONE*									*40-130*
Perfluoro[13C8]Octanoic Acid (M8PFOA)	*NONE*									*40-130*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	*NONE*									*40-200*
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	*NONE*									*40-130*
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	*NONE*									*40-130*
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	*NONE*									*40-130*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	*NONE*									*40-300*
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSA	*NONE*									*40-170*
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	*NONE*									*30-130*
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	*NONE*									*40-130*
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	*NONE*									*25-135*
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	*NONE*									*10-130*
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	*NONE*									*10-130*
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic A	*NONE*									*40-130*
N-Methyl-d3-Perfluoro-1-Octanesulfonamide (d3-NMeFOSA)	*NONE*									*10-130*
N-Ethyl-d5-Perfluoro-1-Octanesulfonamide (d5-NEtFOSA)	*NONE*									*10-130*
2-(N-Methyl-d3-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d7-NMeFOSE	*1265205-95-5*									*10-130*
2-(N-Ethyl-d5-Perfluoro-1-Octanesulfonamido)ethan-d4-ol (d9-NEtFOSE)	*NONE*									*10-130*
TCL Volatiles - EPA 8260D (WATER)										
Methylene chloride	75-09-2	2.5	0.7	ug/l	70-130	20	70-130	20	20	
1,1-Dichloroethane	75-34-3	2.5	0.7	ug/l	70-130	20	70-130	20	20	
Chloroform	67-66-3	2.5	0.7	ug/l	70-130	20	70-130	20	20	
Carbon tetrachloride	56-23-5	0.5	0.134	ug/l	63-132	20	63-132	20	20	
1,2-Dichloropropane	78-87-5	1	0.137	ug/l	70-130	20	70-130	20	20	
Dibromochloromethane	124-48-1	0.5	0.149	ug/l	63-130	20	63-130	20	20	
1,1,2-Trichloroethane	79-00-5	1.5	0.5	ug/l	70-130	20	70-130	20	20	
Tetrachloroethene	127-18-4	0.5	0.181	ug/l	70-130	20	70-130	20	20	
Chlorobenzene	108-90-7	2.5	0.7	ug/l	75-130	20	75-130	20	20	
Trichlorofluoromethane	75-69-4	2.5	0.7	ug/l	62-150	20	62-150	20	20	
1,2-Dichloroethane	107-06-2	0.5	0.132	ug/l	70-130	20	70-130	20	20	
1,1,1-Trichloroethane	71-55-6	2.5	0.7	ug/l	67-130	20	67-130	20	20	
Bromodichloromethane	75-27-4	0.5	0.192	ug/l	67-130	20	67-130	20	20	
trans-1,3-Dichloropropene	10061-02-6	0.5	0.164	ug/l	70-130	20	70-130	20	20	
cis-1,3-Dichloropropene	10061-01-5	0.5	0.144	ug/l	70-130	20	70-130	20	20	
Bromoform	75-25-2	2	0.65	ug/l	54-136	20	54-136	20	20	
1,1,2,2-Tetrachloroethane	79-34-5	0.5	0.167	ug/l	67-130	20	67-130	20	20	
Benzene	71-43-2	0.5	0.159	ug/l	70-130	20	70-130	20	20	
Toluene	108-88-3	2.5	0.7	ug/l	70-130	20	70-130	20	20	
Ethylbenzene	100-41-4	2.5	0.7	ug/l	70-130	20	70-130	20	20	
Chloromethane	74-87-3	2.5	0.7	ug/l	64-130	20	64-130	20	20	
Bromomethane	74-83-9	2.5	0.7	ug/l	39-139	20	39-139	20	20	
Vinyl chloride	75-01-4	1	0.0714	ug/l	55-140	20	55-140	20	20	

TABLE 2B: PARAMETERS - METHODS, LIMITS, ACCURACY AND PRECISION (WATER)
HAMILTON HILL REVITALIZATION - ANCHOR SITE
CITY OF SCHENECTADY, SCHENECTADY COUNTY

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Chloroethane	75-00-3	2.5	0.7	ug/l	55-138	20	55-138	20	20	
1,1-Dichloroethene	75-35-4	0.5	0.169	ug/l	61-145	20	61-145	20	20	
trans-1,2-Dichloroethene	156-60-5	2.5	0.7	ug/l	70-130	20	70-130	20	20	
Trichloroethene	79-01-6	0.5	0.175	ug/l	70-130	20	70-130	20	20	
1,2-Dichlorobenzene	95-50-1	2.5	0.7	ug/l	70-130	20	70-130	20	20	
1,3-Dichlorobenzene	541-73-1	2.5	0.7	ug/l	70-130	20	70-130	20	20	
1,4-Dichlorobenzene	106-46-7	2.5	0.7	ug/l	70-130	20	70-130	20	20	
Methyl tert butyl ether	1634-04-4	2.5	0.166	ug/l	63-130	20	63-130	20	20	
p/m-Xylene	179601-23-1	2.5	0.7	ug/l	70-130	20	70-130	20	20	
o-Xylene	95-47-6	2.5	0.7	ug/l	70-130	20	70-130	20	20	
cis-1,2-Dichloroethene	156-59-2	2.5	0.7	ug/l	70-130	20	70-130	20	20	
Styrene	100-42-5	2.5	0.7	ug/l	70-130	20	70-130	20	20	
Dichlorodifluoromethane	75-71-8	5	1	ug/l	36-147	20	36-147	20	20	
Acetone	67-64-1	5	1.46	ug/l	58-148	20	58-148	20	20	
Carbon disulfide	75-15-0	5	1	ug/l	51-130	20	51-130	20	20	
2-Butanone	78-93-3	5	1.94	ug/l	63-138	20	63-138	20	20	
4-Methyl-2-pentanone	108-10-1	5	1	ug/l	59-130	20	59-130	20	20	
2-Hexanone	591-78-6	5	1	ug/l	57-130	20	57-130	20	20	
Bromochloromethane	74-97-5	2.5	0.7	ug/l	70-130	20	70-130	20	20	
TCL Semivolatiles - EPA 8270E (LVI) (WATER)										
Bis(2-chloroethyl)ether	111-44-4	2	0.392	ug/l	40-140	30	40-140	30	30	
3,3'-Dichlorobenzidine	91-94-1	5	1.85	ug/l	40-140	30	40-140	30	30	
2,4-Dinitrotoluene	121-14-2	5	0.541	ug/l	48-143	30	48-143	30	30	
2,6-Dinitrotoluene	606-20-2	5	0.845	ug/l	40-140	30	40-140	30	30	
4-Chlorophenyl phenyl ether	7005-72-3	2	0.386	ug/l	40-140	30	40-140	30	30	
4-Bromophenyl phenyl ether	101-55-3	2	0.244	ug/l	40-140	30	40-140	30	30	
Bis(2-chloroisopropyl)ether	108-60-1	2	0.403	ug/l	40-140	30	40-140	30	30	
Bis(2-chloroethoxy)methane	111-91-1	5	0.842	ug/l	40-140	30	40-140	30	30	
Hexachlorocyclopentadiene	77-47-4	20	1.23	ug/l	40-140	30	40-140	30	30	
Isophorone	78-59-1	5	0.862	ug/l	40-140	30	40-140	30	30	
Nitrobenzene	98-95-3	2	0.205	ug/l	40-140	30	40-140	30	30	
NitrosoDiPhenylAmine(NDPA)/DPA	86-30-6	2	0.924	ug/l	40-140	30	40-140	30	30	
n-Nitrosodi-n-propylamine	621-64-7	5	0.906	ug/l	29-132	30	29-132	30	30	
Bis(2-Ethylhexyl)phthalate	117-81-7	3	1.42	ug/l	40-140	30	40-140	30	30	
Butyl benzyl phthalate	85-68-7	5	2.61	ug/l	40-140	30	40-140	30	30	
Di-n-butylphthalate	84-74-2	5	0.957	ug/l	40-140	30	40-140	30	30	
Di-n-octylphthalate	117-84-0	5	2.26	ug/l	40-140	30	40-140	30	30	
Diethyl phthalate	84-66-2	5	0.765	ug/l	40-140	30	40-140	30	30	
Dimethyl phthalate	131-11-3	5	0.916	ug/l	40-140	30	40-140	30	30	
Biphenyl	92-52-4	2	0.196	ug/l	40-140	30	40-140	30	30	
4-Chloroaniline	106-47-8	5	0.468	ug/l	40-140	30	40-140	30	30	
2-Nitroaniline	88-74-4	5	1.03	ug/l	52-143	30	52-143	30	30	
3-Nitroaniline	99-09-2	5	1.16	ug/l	25-145	30	25-145	30	30	
4-Nitroaniline	100-01-6	5	1.45	ug/l	51-143	30	51-143	30	30	

TABLE 2B: PARAMETERS - METHODS, LIMITS, ACCURACY AND PRECISION (WATER)
HAMILTON HILL REVITALIZATION - ANCHOR SITE
CITY OF SCHENECTADY, SCHENECTADY COUNTY

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Dibenzofuran	132-64-9	2	0.401	ug/l	40-140	30	40-140	30	30	
Acetophenone	98-86-2	5	0.917	ug/l	39-129	30	39-129	30	30	
2,4,6-Trichlorophenol	88-06-2	5	2.09	ug/l	30-130	30	30-130	30	30	
P-Chloro-M-Cresol	59-50-7	2	0.606	ug/l	23-97	30	23-97	30	30	
2-Chlorophenol	95-57-8	2	0.653	ug/l	27-123	30	27-123	30	30	
2,4-Dichlorophenol	120-83-2	5	1.7	ug/l	30-130	30	30-130	30	30	
2,4-Dimethylphenol	105-67-9	5	2.04	ug/l	30-130	30	30-130	30	30	
2-Nitrophenol	88-75-5	10	1.95	ug/l	30-130	30	30-130	30	30	
4-Nitrophenol	100-02-7	10	1.42	ug/l	10-80	30	10-80	30	30	
2,4-Dinitrophenol	51-28-5	20	5.42	ug/l	20-130	30	20-130	30	30	
4,6-Dinitro-o-cresol	534-52-1	10	2.31	ug/l	20-164	30	20-164	30	30	
Phenol	108-95-2	5	0.35	ug/l	12-110	30	12-110	30	30	
2-Methylphenol	95-48-7	5	2.31	ug/l	30-130	30	30-130	30	30	
3-Methylphenol/4-Methylphenol	106-44-5	5	1.39	ug/l	30-130	30	30-130	30	30	
2,4,5-Trichlorophenol	95-95-4	5	2.07	ug/l	30-130	30	30-130	30	30	
Carbazole	86-74-8	2	0.309	ug/l	55-144	30	55-144	30	30	
2-Fluorophenol	*367-12-4*									*21-120*
Phenol-d6	*13127-88-3*									*10-120*
Nitrobenzene-d5	*4165-60-0*									*23-120*
2-Fluorobiphenyl	*321-60-8*									*15-120*
2,4,6-Tribromophenol	*118-79-6*									*10-120*
4-Terphenyl-d14	*1718-51-0*									*41-149*
Acenaphthene	83-32-9	0.1	0.0235	ug/l	40-140	40	40-140	40	40	
2-Chloronaphthalene	91-58-7	0.2	0.0227	ug/l	40-140	40	40-140	40	40	
Fluoranthene	206-44-0	0.1	0.0272	ug/l	40-140	40	40-140	40	40	
Hexachlorobutadiene	87-68-3	0.5	0.02	ug/l	40-140	40	40-140	40	40	
Naphthalene	91-20-3	0.1	0.0245	ug/l	40-140	40	40-140	40	40	
Benzo(a)anthracene	56-55-3	0.1	0.0295	ug/l	40-140	40	40-140	40	40	
Benzo(a)pyrene	50-32-8	0.1	0.024	ug/l	40-140	40	40-140	40	40	
Benzo(b)fluoranthene	205-99-2	0.1	0.0272	ug/l	40-140	40	40-140	40	40	
Benzo(k)fluoranthene	207-08-9	0.1	0.0338	ug/l	40-140	40	40-140	40	40	
Chrysene	218-01-9	0.1	0.031	ug/l	40-140	40	40-140	40	40	
Acenaphthylene	208-96-8	0.1	0.0205	ug/l	40-140	40	40-140	40	40	
Anthracene	120-12-7	0.1	0.0239	ug/l	40-140	40	40-140	40	40	
Benzo(ghi)perylene	191-24-2	0.1	0.0237	ug/l	40-140	40	40-140	40	40	
Fluorene	86-73-7	0.1	0.0255	ug/l	40-140	40	40-140	40	40	
Phenanthrene	85-01-8	0.1	0.0392	ug/l	40-140	40	40-140	40	40	
Dibenzo(a,h)anthracene	53-70-3	0.1	0.0235	ug/l	40-140	40	40-140	40	40	
Indeno(1,2,3-cd)Pyrene	193-39-5	0.1	0.022	ug/l	40-140	40	40-140	40	40	
Pyrene	129-00-0	0.1	0.0425	ug/l	40-140	40	40-140	40	40	
2-Methylnaphthalene	91-57-6	0.1	0.0277	ug/l	40-140	40	40-140	40	40	
Pentachlorophenol	87-86-5	0.8	0.0565	ug/l	40-140	40	40-140	40	40	
Hexachlorobenzene	118-74-1	0.8	0.0134	ug/l	40-140	40	40-140	40	40	
Hexachloroethane	67-72-1	0.8	0.0224	ug/l	40-140	40	40-140	40	40	
2-Fluorophenol	*367-12-4*									*21-120*

TABLE 2B: PARAMETERS - METHODS, LIMITS, ACCURACY AND PRECISION (WATER)
HAMILTON HILL REVITALIZATION - ANCHOR SITE
CITY OF SCHENECTADY, SCHENECTADY COUNTY

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Phenol-d6	*13127-88-3*									*10-120*
Nitrobenzene-d5	*4165-60-0*									*23-120*
2-Fluorobiphenyl	*321-60-8*									*15-120*
2,4,6-Tribromophenol	*118-79-6*									*10-120*
4-Terphenyl-d14	*1718-51-0*									*41-149*
1,4-Dioxane	123-91-1	300	90.8	ng/l	40-140	30	40-140	30	30	
1,4-Dioxane-d8	*17647-74-4*									*15-110*
1,4-Dioxane-d8 (IS)	17647-74-4			ng/l						
TCL Pesticides - EPA 8081B (WATER)										
Delta-BHC	319-86-8	0.014	0.0059	ug/l	30-150	20	30-150	30	30	
Lindane	58-89-9	0.014	0.0049	ug/l	30-150	20	30-150	30	30	
Alpha-BHC	319-84-6	0.014	0.0057	ug/l	30-150	20	30-150	30	30	
Beta-BHC	319-85-7	0.02	0.0141	ug/l	30-150	20	30-150	30	30	
Heptachlor	76-44-8	0.014	0.0047	ug/l	30-150	20	30-150	30	30	
Aldrin	309-00-2	0.014	0.0051	ug/l	30-150	20	30-150	30	30	
Heptachlor epoxide	1024-57-3	0.014	0.0045	ug/l	30-150	20	30-150	30	30	
Endrin	72-20-8	0.029	0.0082	ug/l	30-150	20	30-150	30	30	
Endrin aldehyde	7421-93-4	0.03	0.0178	ug/l	30-150	20	30-150	30	30	
Endrin ketone	53494-70-5	0.029	0.0138	ug/l	30-150	20	30-150	30	30	
Dieldrin	60-57-1	0.029	0.0043	ug/l	30-150	20	30-150	30	30	
4,4'-DDE	72-55-9	0.029	0.01	ug/l	30-150	20	30-150	30	30	
4,4'-DDD	72-54-8	0.029	0.0101	ug/l	30-150	20	30-150	30	30	
4,4'-DDT	50-29-3	0.029	0.024	ug/l	30-150	20	30-150	30	30	
Endosulfan I	959-98-8	0.014	0.0047	ug/l	30-150	20	30-150	30	30	
Endosulfan II	33213-65-9	0.029	0.0084	ug/l	30-150	20	30-150	30	30	
Endosulfan sulfate	1031-07-8	0.029	0.0065	ug/l	30-150	20	30-150	30	30	
Methoxychlor	72-43-5	0.143	0.0141	ug/l	30-150	20	30-150	30	30	
Toxaphene	8001-35-2	0.2	0.15	ug/l	30-150	20	30-150	30	30	
cis-Chlordane	5103-71-9	0.02	0.0068	ug/l	30-150	20	30-150	30	30	
trans-Chlordane	5103-74-2	0.02	0.011	ug/l	30-150	20	30-150	30	30	
Chlordane	57-74-9	0.143	0.098	ug/l	30-150	20	30-150	30	30	
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*
Decachlorobiphenyl	*2051-24-3*									*30-150*
TCL PCBs - EPA 8082A-LVI (WATER)										
Aroclor 1016	12674-11-2	0.071	0.021	ug/l	40-140	50	40-140	50	50	
Aroclor 1221	11104-28-2	0.071	0.0258	ug/l	40-140	50	40-140	50	50	
Aroclor 1232	11141-16-5	0.071	0.0258	ug/l	40-140	50	40-140	50	50	
Aroclor 1242	53469-21-9	0.071	0.0258	ug/l	40-140	50	40-140	50	50	
Aroclor 1248	12672-29-6	0.071	0.0258	ug/l	40-140	50	40-140	50	50	
Aroclor 1254	11097-69-1	0.071	0.0258	ug/l	40-140	50	40-140	50	50	
Aroclor 1260	11096-82-5	0.071	0.0258	ug/l	40-140	50	40-140	50	50	
Aroclor 1262	37324-23-5	0.071	0.0258	ug/l	40-140	50	40-140	50	50	
Aroclor 1268	11100-14-4	0.071	0.0258	ug/l	40-140	50	40-140	50	50	

TABLE 2B: PARAMETERS - METHODS, LIMITS, ACCURACY AND PRECISION (WATER)
HAMILTON HILL REVITALIZATION - ANCHOR SITE
CITY OF SCHENECTADY, SCHENECTADY COUNTY

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
PCBs, Total	1336-36-3	0.071	0.0258	ug/l				50	50	
2,4,5,6-Tetrachloro-m-xylene	*877-09-8*									*30-150*
Decachlorobiphenyl	*2051-24-3*									*30-150*
METALS by 6020B (WATER)										
Aluminum, Total	7429-90-5	0.01	0.00327	mg/l	80-120		75-125	20	20	
Antimony, Total	7440-36-0	0.004	0.000429	mg/l	80-120		75-125	20	20	
Arsenic, Total	7440-38-2	0.0005	0.000165	mg/l	80-120		75-125	20	20	
Barium, Total	7440-39-3	0.0005	0.000173	mg/l	80-120		75-125	20	20	
Beryllium, Total	7440-41-7	0.0005	0.000107	mg/l	80-120		75-125	20	20	
Cadmium, Total	7440-43-9	0.0002	0.0000599	mg/l	80-120		75-125	20	20	
Calcium, Total	7440-70-2	0.1	0.0394	mg/l	80-120		75-125	20	20	
Chromium, Total	7440-47-3	0.001	0.000178	mg/l	80-120		75-125	20	20	
Cobalt, Total	7440-48-4	0.0005	0.000163	mg/l	80-120		75-125	20	20	
Copper, Total	7440-50-8	0.001	0.000384	mg/l	80-120		75-125	20	20	
Iron, Total	7439-89-6	0.05	0.0191	mg/l	80-120		75-125	20	20	
Lead, Total	7439-92-1	0.001	0.000343	mg/l	80-120		75-125	20	20	
Magnesium, Total	7439-95-4	0.07	0.0242	mg/l	80-120		75-125	20	20	
Manganese, Total	7439-96-5	0.001	0.00044	mg/l	80-120		75-125	20	20	
Nickel, Total	7440-02-0	0.002	0.000556	mg/l	80-120		75-125	20	20	
Potassium, Total	7440-09-7	0.1	0.0309	mg/l	80-120		75-125	20	20	
Selenium, Total	7782-49-2	0.005	0.00173	mg/l	80-120		75-125	20	20	
Silver, Total	7440-22-4	0.0004	0.000163	mg/l	80-120		75-125	20	20	
Sodium, Total	7440-23-5	0.5	0.0293	mg/l	80-120		75-125	20	20	
Thallium, Total	7440-28-0	0.0005	0.000143	mg/l	80-120		75-125	20	20	
Vanadium, Total	7440-62-2	0.005	0.00157	mg/l	80-120		75-125	20	20	
Zinc, Total	7440-66-6	0.01	0.00341	mg/l	80-120		75-125	20	20	
CYANIDE by 9010C/9012B (WATER)										
Cyanide, Total	57-12-5	0.005	0.0018	mg/l	85-115	20	80-120	20	20	
MERCURY by 7470A (WATER)										
Mercury, Total	7439-97-6	0.0002	0.0000915	mg/l	80-120		75-125	20	20	

TABLE 2C: PARAMETERS - METHODS, LIMITS, ACCURACY AND PRECISION
(SOIL GAS / OUTDOOR AIR)
HAMILTON HILL REVITALIZATION - ANCHOR SITE
CITY OF SCHENECTADY, SCHENECTADY COUNTY

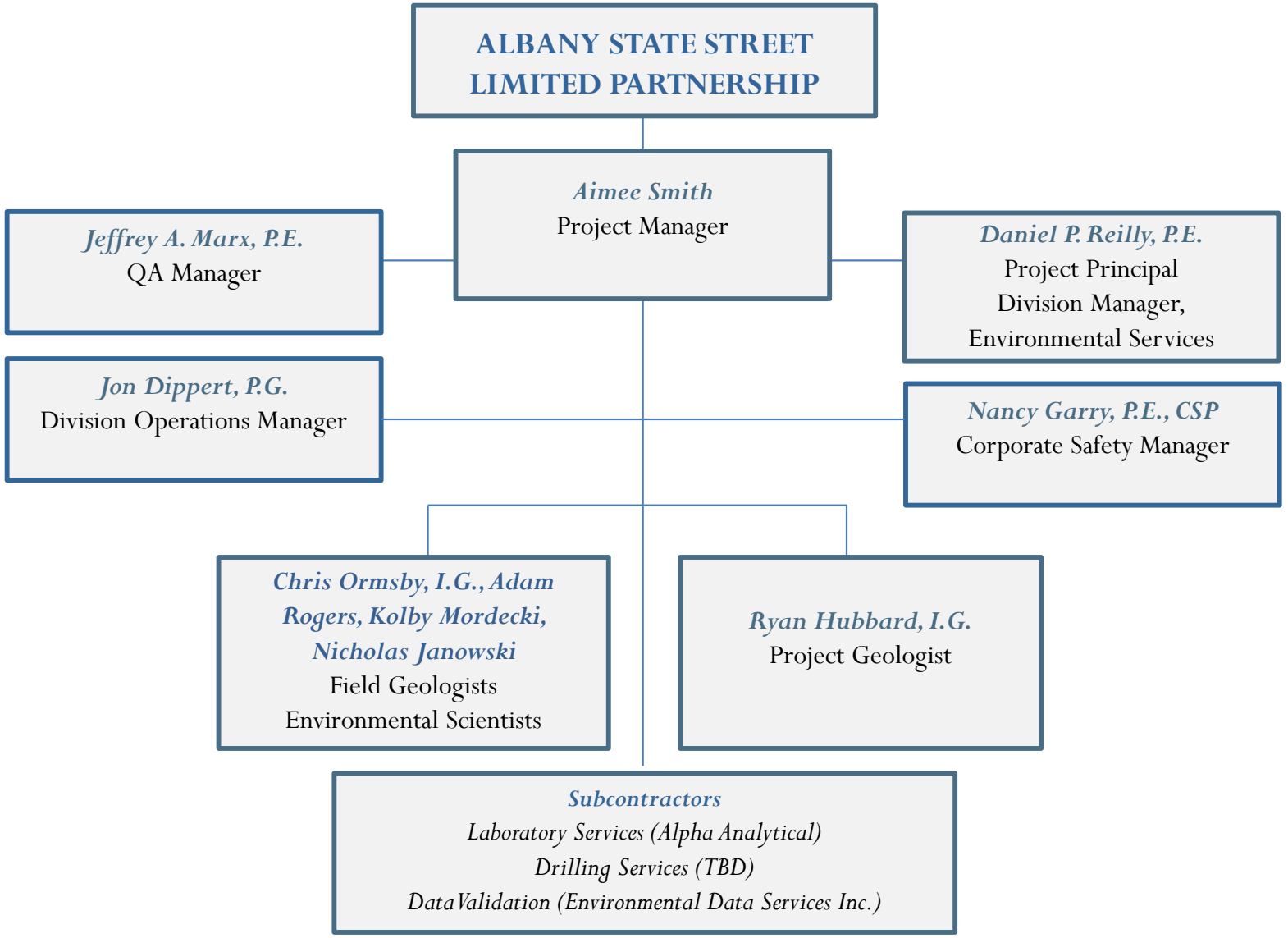
Method	Analyte	Units	Reporting Limit	Method	Analyte	Units	Reporting Limit
TO15	1,1,2,2-Tetrachloroethane	ug/m3	1.37	TO15	1,1,2,2-Tetrachloroethane	ppbV	0.2
TO15	1,1,2-Trichloroethane	ug/m3	1.09	TO15	1,1,2-Trichloroethane	ppbV	0.2
TO15	1,1-Dichloroethane	ug/m3	0.809	TO15	1,1-Dichloroethane	ppbV	0.2
TO15	1,2,4-Trichlorobenzene	ug/m3	1.48	TO15	1,2,4-Trichlorobenzene	ppbV	0.2
TO15	1,2,4-Trimethylbenzene	ug/m3	0.983	TO15	1,2,4-Trimethylbenzene	ppbV	0.2
TO15	1,2-Dibromoethane	ug/m3	1.54	TO15	1,2-Dibromoethane	ppbV	0.2
TO15	1,2-Dichlorobenzene	ug/m3	1.2	TO15	1,2-Dichlorobenzene	ppbV	0.2
TO15	1,2-Dichloroethane	ug/m3	0.809	TO15	1,2-Dichloroethane	ppbV	0.2
TO15	1,2-Dichloropropane	ug/m3	0.924	TO15	1,2-Dichloropropane	ppbV	0.2
TO15	1,3,5-Trimethylbenzene	ug/m3	0.983	TO15	1,3,5-Trimethylbenzene	ppbV	0.2
TO15	1,3-Butadiene	ug/m3	0.442	TO15	1,3-Butadiene	ppbV	0.2
TO15	1,3-Dichlorobenzene	ug/m3	1.2	TO15	1,3-Dichlorobenzene	ppbV	0.2
TO15	1,4-Dichlorobenzene	ug/m3	1.2	TO15	1,4-Dichlorobenzene	ppbV	0.2
TO15	1,4-Dioxane	ug/m3	0.721	TO15	1,4-Dioxane	ppbV	0.2
TO15	2,2,4-Trimethylpentane	ug/m3	0.934	TO15	2,2,4-Trimethylpentane	ppbV	0.2
TO15	2-Butanone	ug/m3	1.47	TO15	2-Butanone	ppbV	0.5
TO15	2-Hexanone	ug/m3	0.82	TO15	2-Hexanone	ppbV	0.2
TO15	3-Chloropropene	ug/m3	0.626	TO15	3-Chloropropene	ppbV	0.2
TO15	4-Ethyltoluene	ug/m3	0.983	TO15	4-Ethyltoluene	ppbV	0.2
TO15	4-Methyl-2-pentanone	ug/m3	2.05	TO15	4-Methyl-2-pentanone	ppbV	0.5
TO15	Acetone	ug/m3	2.38	TO15	Acetone	ppbV	1
TO15	Benzene	ug/m3	0.639	TO15	Benzene	ppbV	0.2
TO15	Benzyl chloride	ug/m3	1.04	TO15	Benzyl chloride	ppbV	0.2
TO15	Bromodichloromethane	ug/m3	1.34	TO15	Bromodichloromethane	ppbV	0.2
TO15	Bromoform	ug/m3	2.07	TO15	Bromoform	ppbV	0.2
TO15	Bromomethane	ug/m3	0.777	TO15	Bromomethane	ppbV	0.2
TO15	Carbon disulfide	ug/m3	0.623	TO15	Carbon disulfide	ppbV	0.2
TO15	Chlorobenzene	ug/m3	0.921	TO15	Chlorobenzene	ppbV	0.2
TO15	Chloroethane	ug/m3	0.528	TO15	Chloroethane	ppbV	0.2
TO15	Chloroform	ug/m3	0.977	TO15	Chloroform	ppbV	0.2
TO15	Chloromethane	ug/m3	0.413	TO15	Chloromethane	ppbV	0.2
TO15	cis-1,3-Dichloropropene	ug/m3	0.908	TO15	cis-1,3-Dichloropropene	ppbV	0.2
TO15	Cyclohexane	ug/m3	0.688	TO15	Cyclohexane	ppbV	0.2
TO15	Dibromochloromethane	ug/m3	1.7	TO15	Dibromochloromethane	ppbV	0.2
TO15	Dichlorodifluoromethane	ug/m3	0.989	TO15	Dichlorodifluoromethane	ppbV	0.2
TO15	Ethanol	ug/m3	9.42	TO15	Ethanol	ppbV	5
TO15	Ethyl Acetate	ug/m3	1.8	TO15	Ethyl Acetate	ppbV	0.5
TO15	Ethylbenzene	ug/m3	0.869	TO15	Ethylbenzene	ppbV	0.2
TO15	Freon-113	ug/m3	1.53	TO15	Freon-113	ppbV	0.2
TO15	Freon-114	ug/m3	1.4	TO15	Freon-114	ppbV	0.2
TO15	Heptane	ug/m3	0.82	TO15	Heptane	ppbV	0.2
TO15	Hexachlorobutadiene	ug/m3	2.13	TO15	Hexachlorobutadiene	ppbV	0.2
TO15	Isopropanol	ug/m3	1.23	TO15	Isopropanol	ppbV	0.5
TO15	Methyl tert butyl ether	ug/m3	0.721	TO15	Methyl tert butyl ether	ppbV	0.2
TO15	Methylene chloride	ug/m3	1.74	TO15	Methylene chloride	ppbV	0.5
TO15	n-Hexane	ug/m3	0.705	TO15	n-Hexane	ppbV	0.2
TO15	o-Xylene	ug/m3	0.869	TO15	o-Xylene	ppbV	0.2
TO15	p/m-Xylene	ug/m3	1.74	TO15	p/m-Xylene	ppbV	0.4
TO15	Styrene	ug/m3	0.852	TO15	Styrene	ppbV	0.2
TO15	Tertiary butyl Alcohol	ug/m3	1.52	TO15	Tertiary butyl Alcohol	ppbV	0.5
TO15	Tetrahydrofuran	ug/m3	1.47	TO15	Tetrahydrofuran	ppbV	0.5
TO15	Toluene	ug/m3	0.754	TO15	Toluene	ppbV	0.2
TO15	trans-1,2-Dichloroethene	ug/m3	0.793	TO15	trans-1,2-Dichloroethene	ppbV	0.2
TO15	trans-1,3-Dichloropropene	ug/m3	0.908	TO15	trans-1,3-Dichloropropene	ppbV	0.2
TO15	Trichlorofluoromethane	ug/m3	1.12	TO15	Trichlorofluoromethane	ppbV	0.2
TO15	Vinyl bromide	ug/m3	0.874	TO15	Vinyl bromide	ppbV	0.2
TO15-SIM	1,1,1-Trichloroethane	ug/m3	0.109	TO15-SIM	1,1,1-Trichloroethane	ppbV	0.02
TO15-SIM	1,1-Dichloroethene	ug/m3	0.079	TO15-SIM	1,1-Dichloroethene	ppbV	0.02
TO15-SIM	Carbon tetrachloride	ug/m3	0.126	TO15-SIM	Carbon tetrachloride	ppbV	0.02
TO15-SIM	cis-1,2-Dichloroethene	ug/m3	0.079	TO15-SIM	cis-1,2-Dichloroethene	ppbV	0.02
TO15-SIM	Tetrachloroethene	ug/m3	0.136	TO15-SIM	Tetrachloroethene	ppbV	0.02
TO15-SIM	Trichloroethene	ug/m3	0.107	TO15-SIM	Trichloroethene	ppbV	0.02
TO15-SIM	Vinyl chloride	ug/m3	0.051	TO15-SIM	Vinyl chloride	ppbV	0.02

ATTACHMENT A

ORGANIZATIONAL CHART

DRAFT

C.T. MALE PROJECT ORGANIZATION – HAMILTON HILL REVITALIZATION – ANCHOR SITE



ATTACHMENT B

PERSONNEL RESUMES

DRAFT



DANIEL REILLY, P.E.

Chief Operating Officer

SUMMARY

Mr. Reilly joined C.T. Male in 1993 as an Environmental Engineer, and currently serves as the firm's Chief Operating Officer and the Environmental Services Division Manager. As Environmental Services Division Manager, Mr. Reilly is responsible for the personnel, production and operations of the Environmental Services Group. He manages and supervises a staff of 35 employees consisting of licensed professional engineers, certified geologists/hydro-geologists, industrial hygienists, scientists, and support staff. He is responsible for aligning appropriate staff to accommodate the production demands of many active projects within the Division. He also prepares and reviews proposals, budgets and contract documents, and performs quality reviews of project deliverables.

As Chief Operating Officer, responsibilities include maintaining high client service throughout the organization and coordinating the activities of the firm's other professional service Divisions to ensure that resources are appropriately aligned to meet client needs and expectations.

Mr. Reilly is currently working on a wide variety of projects including environmental permitting for air emission sources, complex air dispersion modeling, environmental compliance auditing, and managing investigative and compliance activities for emerging contaminants (ex., PFAS).

PROFESSIONAL BACKGROUND

Licensed Professional Engineer in NY

YEARS OF EXPERIENCE

Total Years of Experience: 33
Total Years with C.T. Male: 33

EDUCATION

BS in Environmental Engineering
Rensselaer Polytechnic Institute

SPECIALIZED TRAINING

OSHA 40-Hour Health & Safety Training

NOTABLE PROJECT EXPERIENCE

Emerging Contaminants

- PFAS Remedial Investigation activities for an industrial client conducted on a regional basis in NY, VT & NH

Petroleum & Chemical Bulk Storage

- Eastern Correction Facility
- Albany County Airport Authority

Environmental Auditing

- Multiple Colleges, Hospitals & Industrial Facilities

Air Permitting

- GLOBALFOUNDRIES, Fab 8, Malta, NY
- AMRI Large Scale Manufacturing Facility, Rensselaer, NY
- Saint Gobain Performance Plastics Corporation

Water & Wastewater

- Water System Improvements, Town of Bethlehem, NY
- Bedford Hills Correctional Facility Water System Improvements, Westchester County, NY
- I684 Rest Area WWTP, Putnam County, NY

AIMEE SMITH

Project Manager

YEARS OF EXPERIENCE

Total Years of Experience: 34
Total Years with C.T. Male: 33

EDUCATION

BA in Math
College of Saint Rose

AS in Science
Adirondack Community College

PROFESSIONAL AFFILIATIONS

Board Member, Town of Northumberland Zoning Board of Appeals, 2014-2021

SPECIALIZED TRAINING

OSHA 40-Hour Health & Safety Training and Annual 8 Hour Refresher

OSHA 10-Hour Construction Safety Training

OSHA Supervisors Hazard Communication Training Course

SUMMARY

Ms. Smith joined the firm in 1993 and specializes in managing Phase I and Phase II Environmental Site Assessments and other environmental services related to real estate transactions such as National Environmental Policy Act (NEPA) reviews, HUD Statutory Checklists and Transaction Screen Assessments. Ms. Smith also manages underground storage tank closures and other remedial activities that may be required before ownership of a property can be transferred or used as collateral, manages in NYSDEC's Brownfield Cleanup Program, Brownfield Opportunity Area projects and industrial waste investigations.

NOTABLE PROJECT EXPERIENCE

Phase I Environmental Site Assessments

- Luther Forest Technology Campus; Malta & Stillwater, NY
- TD Bank, Adirondack Trust Company and Trustco Bank; Various Locations in NYS
- Albany County Land Bank Corporation; Various locations in the City and County of Albany

Phase II Environmental Site Assessments

- Former Gasoline Station; Cobleskill, NY
- Automotive Repair Facility; Saratoga Springs, NY
- Former Fuel Oil Bulk Storage Facility; Saratoga Springs, NY
- Former Automobile Dealership; Troy, NY
- Freight House and Former Truck Repair Facilities; Fort Edward, NY

NYSDEC ERP & BCP and Other Remedial Projects

- PCB Remediation Project and Underground Storage Tank Closure; Queensbury, NY
- PCB Remediation Project at Fiberglass Industries; Amsterdam, NY
- Former Hoe Bowl Underground Storage Tank Closure; Hyde Park, NY
- Empire Generating Redevelopment; Rensselaer, NY
- Cottage Place Gardens - BCP

Brownfield Opportunity Area Projects

- Town & Village of Malone, NY - Step 1
- Town of Fort Edward, NY – Step 2
- City of Amsterdam – Step 1

SEQR/NEPA

- Capital Region Land Bank
- Albany County Land Bank Corporation



JEFFREY A. MARX, P.E.

Managing Environmental Engineer/Principal

SUMMARY

Mr. Marx joined C.T. Male in 1997 as an Environmental Engineer and is currently a Managing Environmental Engineer responsible for supervising five engineers and one geologist within the Environmental Division mainly related to environmental compliance, due diligence property assessments and investigation/remediation of all types of facilities. His responsibilities include development and implementation of environmental investigations for NYS Brownfield, Environmental Restoration and Spills Program sites; tank assessment/closures; PFAS sampling and cleanup; managing post- closure landfill monitoring; hazardous waste sampling, management and disposal; due diligence environmental assessments and scoping; remediation scoping and implementation; and QA/QC and lab data management of environmental projects following NYSDEC EQuIS submission requirements. Mr. Marx understands fate and transport of environmental contaminants in various media; authors technical specifications and reports; manages multi-discipline projects and remedial construction activities; and leads environmental compliance assistance (i.e., petroleum and chemical bulk storage, industrial wastewater management, hazardous waste, PBS related SPCC Plans, CBS related SPRs, air permitting, industrial SWPPPs, etc.) for industrial clients.

PROFESSIONAL BACKGROUND

Licensed Professional Engineer in NY

NYSDOL Licensed Asbestos Project Designer

YEARS OF EXPERIENCE

Total Years of Experience: 31
Total Years with C.T. Male: 29

EDUCATION

BS in Civil Engineering
Rochester Institute of Technology

PROFESSIONAL AFFILIATIONS

American Society of Civil Engineers, Hudson Mohawk Section, Member

The Practicing Institute of Engineering, Inc., Member and Continuing Education Course Evaluator

The Foundation for Engineering Education, Inc., E-Week Steering Committee Co-Chair

East Greenbush Branch YMCA Volunteer, Chair of Advisory Council Member and Capital District YMCA Board Member

Capital District YMCA Facilities Committee Member

SPECIALIZED TRAINING

OSHA 40-Hour Health & Safety Training

OSHA 10-Hour Construction Safety

Hazmat Ground Shipper Certification - 2023

NOTABLE PROJECT EXPERIENCE

Environmental Compliance

- Regeneron Pharmaceuticals, Rensselaer & East Greenbush NY Facilities, Various Regulatory Programs
- Haleon (formerly GSK) , Durham, NY, SPCC Plan, SWPP Plan, BMP Plan, Hazardous Waste Reporting, Mercury Minimization Plan
- GlobalFoundries; Malta, NY, Various Regulatory Programs
- HVCC; Troy, NY - Environmental Compliance
- Momentive Performance Materials; Waterford NY Various Regulatory Programs

NYSDEC ERP & BCP (Certifying Remedial Engineer)

- Cottage Place Gardens BCP; Yonkers, NY
- Former Plesser Property BCP, Poughkeepsie, NY
- Former Chalmers Knitting Mill ERP; Amsterdam, NY
- Former Tanneries (3 sites) ERPs; Gloversville, NY
- USAI Lighting BCP; New Windsor, NY

Phase II ESAs, Tank Closures & Remediation

- Haleon (formerly GSK), Tank Closure and Spill Cleanup
- Confidential Site, Buried Drums Assessment & Removal; Malta, NY
- NYS Canal Corp., Multiple Sites, NY

Emergent Contaminant Work

- Fenix Parts, Inc., Queensbury, NY, PFAS Spill Cleanup
- Saint-Gobain, Multiple Facilities, PFAS Lab Data Management

Vapor Intrusion Mitigation

- Albion Correctional (OGS); Albany, NY
- IDA Yarbrough Homes; Albany, NY



PROFESSIONAL BACKGROUND
Licensed Professional Geologist in NY

YEARS OF EXPERIENCE
Total Years of Experience: 21
Total Years with C.T. Male: 19

EDUCATION
BA in Geology and Geophysics
University of Connecticut

PROFESSIONAL AFFILIATIONS
Hudson Mohawk Professional Geologist Association (HMPGA)
Programming Chair, 2022-present

HMPGA
Board Member, 2023-present

SPECIALIZED TRAINING
OSHA 1910.120 HAZWOPER and Annual 8 Hour Certification

OSHA Confined Space Entry Training

OSHA Lockout/Tagout - Control of Hazardous Energy Training

Aquifer Testing for Improved Hydrogeologic Site Characterization Featuring AQTESOLV and In-Situ LevelTROLL, Colorado School of Mines

Certified Hazardous Materials Manager Review, University of Iowa

Midwest Geosciences Group Webinar Series, Aquifer Evaluation and various short courses

JONATHAN DIPPERT, P.G.
Project & Division Operations Manager

SUMMARY
Mr. Dippert joined C.T. Male in 2007 with extensive experience as an environmental consultant, project manager and Professional Geologist. His experience include soil and groundwater investigations with an emphasis in emerging contaminants, Phase II Environmental Site Assessments, remedial action field oversight, hydrogeologic investigations involving public and private water supply, and participation in various other environmental projects.

The projects have included oversight of contractors, characterization of environmental media (e.g., soil) to support decision process, coordination with regulatory agencies to develop and implement work plans and reporting, and evaluation of the data to prepare remedial alternatives analysis.

Mr. Dippert is responsible for the preparation of technical reports, data research, staying current and training staff on new field technologies and methods, and management of staff capabilities, depth of services, coordinating/reviewing the quality of work for project team staff including relevant field logs and mapping, and adherence to applicable standard operating procedures, scopes of work, and state and federal regulations and guidelines.

NOTABLE PROJECT EXPERIENCE

Emerging Contaminant (EC) Projects

- 2 Sites, Hoosick Falls, New York
- 1 Site, North Bennington, Vermont
- 1 Site, Merrimack, New Hampshire
- 1 Site, Saranac Lake, New York

NYSDEC ERP & BCP Projects

- 312 Broadway ERP, Schenectady, New York
- 400 Broadway ERP, Saranac Lake, New York
- Public School 6, Yonkers, New York
- 188 Warburton Avenue, Yonkers, New York
- Former Miron Pre-Cast, Kingston, New York
- 354 Broadway, Fort Edward, New York

Water Supply Projects

- Hydrogeologic Evaluation, Saratoga Springs, NY
- Residential drinking water well replacement, North Bennington, VT

Facility Support/Environmental Services

- Remedial Spill Monitoring, Glens Falls, NY
- Confidential Client, Hoosick Falls, NY
- Long-Term Monitoring, Bennington, VT

NANCY GARRY, P.E., CSP

Senior Environmental Engineer



SUMMARY

Ms. Garry joined C.T. Male in 2017 as a Senior Environmental Engineer. She has extensive experience in site investigation and remediation projects and environmental compliance. Ms. Garry also has extensive experience in OSHA and environmental, health and safety on-site compliance for industrial and government clients. Ms. Garry serves as the firm's Corporate Safety Manager.

Ms. Garry is responsible for projects including Clean Air Act assessments and compliance; Risk Management Plans; chemical and petroleum bulk storage assessments and compliance; environmental audits; Phase 1 & 2 environmental site assessments; and various environmental engineering projects.

PROFESSIONAL BACKGROUND

Licensed Professional Engineer in NY

Certified Safety Professional

YEARS OF EXPERIENCE

Total Years of Experience: 29
Total Years with C.T. Male: 9

EDUCATION

Master in Environmental Engineering
Rensselaer Polytechnic Institute

BA in Chemistry/Biology
College of St. Rose

PROFESSIONAL AFFILIATIONS

NYS Society of Professional Engineers

Capital District Chapter, NYS Society of Professional Engineers
Director 2017-2019 and MATHCOUNTS volunteer scorer (2019 - Present)

American Society of Safety Professionals
Member

SPECIALIZED TRAINING

OSHA 40 Hr HAZWOPER

OSHA 8 Hr HAZWOPER Supervisor

OSHA 10 Hr Construction

RCRA Hazardous Waste Mgt.

DOT Ground Shipper

NOTABLE PROJECT EXPERIENCE

College and School Experience

Managed a three year (2015 -2018), New York State Office of General Services, Environmental Remediation Services Statewide Term Contract*. Projects under these contracts have included:

- Tank design packages for the removal of underground and aboveground storage tanks and installation of aboveground storage tanks for back up fuel sources and fueling stations at numerous Department of Corrections and Community Supervision facilities throughout NYS.
- Three New York State Department of Transportation former spills sites that required remediation, ongoing monitoring, and spill closure.

Managed a seven year (2008 -2015), New York State Department of Environmental Conservation, Standby Engineering Services for Remediation Statewide, Term Contract*. Projects under these contracts have included:

- Managed approx. twenty-five projects under the NYSDEC contract that included site characterizations, remedial investigations, feasibility studies, point of entry use systems, and site management throughout NYS. Management included submitting work plans, reports, health & safety plans, quality control plans, and review of subcontractors plans. (*Projects completed at previous employer).

Long term ongoing ground water remedial treatment system operation, that includes remote access and control, monthly sampling and weekly inspections. The remedial treatment system is part of an Interim Remedial Measure (IRM) for the project site per NYSDEC.

Preparing Site Safety Plans across company Divisions: Environmental, Civil, Mechanical/Electrical, Survey; for submission to various private, municipal and agency clients. This includes reviewing clients needs for the project, review scope of work with project teams for understanding of potential hazards for project work, and addressing comments from clients of the Site Safety Plans.



RYAN HUBBARD, G.I.T.

Geologist III

SUMMARY

Mr. Hubbard has nine years of field and reporting experience performing Phase I and Phase II Environmental Site Assessments involving multiple media sampling, data collection, data compilation and report preparation to complete environmental site characterization, subsurface and hydrogeologic investigations, vapor intrusion assessment and mitigation, soil classification, field sampling, environmental permits, database management, interpretation of analytical data, and other environmental services.

Mr. Hubbard has recent experience with Remedial Investigations (RI) involving site specific work plans related to PFAS and 1,4-Dioxane sampling, soil vapor sampling, holding tank closures, soil excavation, database searches and report preparation. His experience includes a wide variety of project sites including existing/former landfills, water treatment/ wastewater treatment facilities, firefighter training sites, airports, commercial properties, and industrial facilities. Mr. Hubbard has been a critical member of our Emerging Contaminant (EC) Technical team as he has lead the collection and interpretation of hydrogeologic data at numerous EC-impacted project sites. His proven experience includes characterization of the critical site stratigraphy and hydrostratigraphic relationships, definition of hydraulic gradients and groundwater flow patterns for various aquifer systems, and evaluation and identification of potential on-site and off-site sensitive receptors as it relates to vapor and impacted groundwater.

YEARS OF EXPERIENCE

Total Years of Experience: 10
Total Years with C.T. Male: 10

EDUCATION

BS in Environmental Science
University at Albany

MS in Geological Science
Ohio University

PROFESSIONAL AFFILIATIONS

Association of Vapor Intrusion Professionals

Hudson-Mohawk Professional Geologists Association

CONTINUING EDUCATION

Course on ASTM E1527 Phase I Environmental Site Assessment for Commercial Real Estate

SPECIALIZED TRAINING

NYSDOL Licensed Asbestos Project Monitor and Air Sampling Technician

OHSA 10 Hour Construction Safety Training

OSHA 40-Hour HAZWOPER

Training and Annual 8-Hour Refresher

Certified Visible Emissions Reader per EPA Method 9 Visible Opacity Reading

NOTABLE PROJECT EXPERIENCE

Environmental Site Assessments (ESAs)

- Completed over 200 Phase I ESAs throughout New York for residential and commercial properties and industrial facilities.

Phase II ESAs, Investigative Field Work and Remedial Work

- Underground tank closure and contaminated soil removal activities for sites throughout New York
- Petroleum Spill Investigation Studies throughout New York
- Former Drycleaner facilities throughout New York
- Soil Vapor Intrusion Assessment in residential, commercial and industrial properties.
- Post-closure monitoring of various landfills throughout New York.

PFAS Project Experience

- Adirondack Regional Airport—RI, Harrietstown, NY
- Confidential Site—Alternative Drinking Water Supply Evaluation, Eastern NY
- Confidential Site—Atmospheric Deposition Study, Eastern NY
- Confidential Site—Multiple Industrial Facility RI—Eastern NY
- Confidential Site—Industrial Facility RI, Southern VT
- Schuler Heights Fire District—NYSERP Site Monitoring, Albany, NY
- Former Firefighter Training Site—Binghamton, NY
- Allied Healthcare Products—Initial Site Review, BCP & Groundwater IRM, Stuyvesant Falls, NY

Nancy Weaver

Education

B.S., Chemistry, University of Colorado, Denver, Colorado

Certifications and Training

State of New York Department of Environmental Conservation certified Asbestos Inspector

40-Hour OSHA Hazardous Waste Training

8-Hour Health and Safety Supervisor Training for Hazardous Waste Operations

Relevant Experience

- More than 20 years combined laboratory, data validation and project management experience
- Experienced in writing Quality Assurance Project Plans (QAPPs), managing subcontracted analytical laboratories, performing laboratory audits, and analyzing samples in a laboratory.

Experience Overview

Ms. Weaver has over twenty years combined laboratory, data validation and project management experience. She is the President and co-founder of EDS and is responsible for the technical data review and validation of laboratory data. Ms. Weaver has performed data validation on thousands of data validation projects. She has extensive knowledge in applying the various regional and project specific data validation guidelines and QAPPs. Her experience also includes writing Quality Assurance Project Plans (QAPPs), managing subcontracted analytical laboratories, performing laboratory audits, participating in field sampling activities and analyzing samples in a laboratory.

Relevant Project Experience

Principal/Senior Chemist, Environmental Data Services, Inc., Williamsburg, Virginia, August 1994 - Present. As the Principal Chemist at Environmental Data Services, Inc., Ms. Weaver has provided Level IV data review on more than 6000 Sample Delivery Groups (SDGs) generated through site investigations and/or remediations. These SDGs have included every analytical fraction possible including VOC, SVOC, pesticides, PCBs, herbicides, DRO, GRO, dioxin/furans, PCB congeners, metals, wet chemistry and radiological parameters. Sample matrices include water, soil, sediment, wipe, concrete and air. The SDGs have included CLP data packages produced under the CLP SOWs and CLP-like data packages with samples analyzed under SW-864 methodologies. Sample quantities validated may reach upwards of 120,000 per fraction over the past 20 years. Ms. Weaver has been using the USEPA National Functional Data Validation Guidelines since 1993 and has provided Level IV (full) and Level III (cursory) validation. Specifically validated PCB congeners by EPA Method 1668 and dioxin/furans by EPA Method 1613 using the USEPA National Functional Guidelines, USEPA Region I and USEPA Region III data validation guidelines. Validated radiological parameters analyzed by alpha and gamma spectrometry using the USACE Kansas City and St. Louis District Radionuclide Data Quality Evaluation Guidance.

Chemist-Analyst Specialist, City & County of Denver, Denver, Colorado, June 1992 - August 1994. As a Chemist-Analyst Specialist for the City and County of Denver, Ms. Weaver supervised performance and compliance sampling for O & M requirements at groundwater treatment facility. She provided assessment of analytical data for quarterly reports to local regulatory agencies. She also acted as liaison between the technical group and laboratory to coordinate sampling events and resolve problems with analyses. While in this capacity, she performed data validation for organic, inorganic and radiological analyses. Ms. Weaver reviewed over 2000 VOC, SVOC, pesticide, PCB, TPH, metals and wet chemistry samples. Ms. Weaver managed the database for groundwater and treatment plant sampling events and performed environmental site assessments for commercial and residential properties. She provided technical review and recommendations of Phase I and Phase II site investigations performed by outside consultants. She also analyzed policy and interpreted city, state and federal environmental regulations.

Data Validation Specialist, C.C. Johnson & Malhotra, Lakewood, Colorado, January 1990 to June 1992. While a Data Validation Specialist at C.C. Johnson & Malhorta, Ms. Weaver performed data validation and interpretation of organic analytical data generated from the EPA Contract Laboratory Program (CLP). Data analysis included VOC,

SVOC, pesticides, PCBs, metals and wet chemistry. Ms. Weaver reviewed more than 600 SDGs and 9000 samples. She interpreted gas chromatograms, gas chromatography/mass spectral data and verified mathematical calculations.

Environmental Chemist, The Anschutz Corporation - SP Environmental Systems, Inc., Denver, Colorado, July 1990 to January 1992. As an Environmental Chemist for The Anschutz Corporation - SP Environmental Systems, Inc., Ms. Weaver assisted in the management of site investigations and remediation for Southern Pacific Transportation Company properties. In this capacity, she performed environmental audits and site assessments and conducted site investigations at potential Superfund sites with state and federal agencies. She researched and prepared responses to regulatory agencies for non-compliant sites and defined the needs for hazardous waste disposal including the analysis required and disposal. Ms. Weaver also supervised the removal of underground storage tanks and remediation. She prepared closure reports for UST removals, as well as annual waste summary forms for TSD facilities throughout the state of Texas. She also constructed, developed, and sampled groundwater monitoring wells.

Environmental Specialist, Martin Marietta Astronautics Group, Denver, Colorado, January 1988 to January 1990. While with Martin Marietta Astronautics Group as an Environmental Specialist, Ms. Weaver performed organic analysis and sampling of wastewater, groundwater, and drinking water in support of NPDES permit. She operated and maintained laboratory instrumentation including GC and GC/MS for volatile, semi-volatile, and pesticide/PCB analysis. Ms. Weaver also coordinated sample collection and preparation activities, developed and authored standard operating procedures for laboratory analysis, and followed EPA protocol for QA/QC requirements for analysis. She calculated and interpreted data and reported results.

Environmental Chemist, Camp, Dresser, & McKee, Boston, Massachusetts, April 1986 to October 1987. As an Environmental Chemist with Camp, Dresser, & McKee, Ms. Weaver analyzed water/wastewater for organic compounds. She operated and maintained laboratory instrumentation including GC and infrared spectrophotometer for volatile, pesticide/PCB, and petroleum hydrocarbon analysis. She also calculated and interpreted data and reported results. Ms. Weaver analyzed more than 2000 samples.

Employment History

Environmental Data Services, Inc.	Principal/Senior Chemist	1994–Present
City & County of Denver	Chemist-Analyst Specialist	1992–1994
C.C. Johnson & Malhorta	Contractor/Data Validation Specialist	1990–1992
The Anschutz Corporation - SP Environmental Systems, Inc.	Environmental Chemist	1990–1992
Martin Marietta Astronautics Group	Environmental Specialist	1988–1990
Camp, Dresser, & McKee	Environmental Chemist	1986–1987

ATTACHMENT C

LABORATORY CERTIFICATIONS

DRAFT

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. JOHN TRIMBLE
PACE ANALYTICAL SERVICES, LLC - MANSFIELD, MA (320 FORBES)
320 FORBES BOULEVARD
MANSFIELD, MA 02048

NY Lab Id No: 11627

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES AIR AND EMISSIONS
All approved analytes are listed below:

Polychlorinated Biphenyls

PCBs and Aroclors	EPA TO-10A
	EPA TO-4A

Polynuclear Aromatics

Acenaphthene	EPA TO-13A
Acenaphthylene	EPA TO-13A
Anthracene	EPA TO-13A
Benzo(a)anthracene	EPA TO-13A
Benzo(a)pyrene	EPA TO-13A
Benzo(b)fluoranthene	EPA TO-13A
Benzo(g,h,i)perylene	EPA TO-13A
Benzo(k)fluoranthene	EPA TO-13A
Chrysene	EPA TO-13A
Dibenzo(a,h)anthracene	EPA TO-13A
Fluoranthene	EPA TO-13A
Fluorene	EPA TO-13A
Indeno(1,2,3-cd)pyrene	EPA TO-13A
Naphthalene	EPA TO-13A
Phenanthrene	EPA TO-13A
Pyrene	EPA TO-13A

Serial No.: 72187

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NY Lab Id No: 11627

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All approved analytes are listed below:

Metals I

Arsenic, Total	EPA 200.8 Rev. 5.4
Barium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Cadmium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Chromium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Copper, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Iron, Total	EPA 200.7 Rev. 4.4
Lead, Total	EPA 200.8 Rev. 5.4
Manganese, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Mercury, Total	EPA 245.1 Rev. 3.0
Selenium, Total	EPA 200.8 Rev. 5.4
Silver, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Zinc, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4

Metals II

Aluminum, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Antimony, Total	EPA 200.8 Rev. 5.4
Beryllium, Total	EPA 200.8 Rev. 5.4
Nickel, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4
Thallium, Total	EPA 200.8 Rev. 5.4

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Metals II

Vanadium, Total	EPA 200.7 Rev. 4.4
	EPA 200.8 Rev. 5.4

Metals III

Boron, Total	EPA 200.7 Rev. 4.4
Calcium, Total	EPA 200.7 Rev. 4.4
Magnesium, Total	EPA 200.7 Rev. 4.4
Potassium, Total	EPA 200.7 Rev. 4.4
Sodium, Total	EPA 200.7 Rev. 4.4

Miscellaneous

1,4-Dioxane	EPA 522

Non-Metals

Calcium Hardness	EPA 200.7 Rev. 4.4

Perfluorinated Alkyl Acids

11Cl-PF3OUdS	EPA 533
	EPA 537.1, Version 2
4:2FTS	EPA 533
6:2FTS	EPA 533
8:2FTS	EPA 533
9Cl-PF3ONS	EPA 533
	EPA 537.1, Version 2
ADONA	EPA 533
	EPA 537.1, Version 2
HFPO-DA (GenX)	EPA 533
	EPA 537.1, Version 2
NEtFOSAA	EPA 537.1, Version 2
NFDHA	EPA 533

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Perfluorinated Alkyl Acids

NMeFOSAA	EPA 537.1, Version 2
Perflourotridecanoic Acid (PFTrDA)	EPA 537.1, Version 2
Perfluordecanoic Acid (PFDA)	EPA 533
	EPA 537.1, Version 2
Perfluoro-3-Methoxypropanoic Acid (F	EPA 533
Perfluoro-4-Methoxybutanoic Acid (PF	EPA 533
Perfluorobutanesulfonic Acid (PFBS)	EPA 533
	EPA 537.1, Version 2
Perfluorobutanoic Acid (PFBA)	EPA 533
Perfluorododecanoic Acid (PFDoA)	EPA 533
	EPA 537.1, Version 2
Perfluoroheptanesulfonic Acid (PFHpS	EPA 533
Perfluoroheptanoic Acid (PFHpA)	EPA 533
	EPA 537.1, Version 2
Perfluorohexanesulfonic Acid (PFHxS	EPA 533
	EPA 537.1, Version 2
Perfluorohexanoic Acid (PFHxA)	EPA 533
	EPA 537.1, Version 2
Perfluorononanoic Acid (PFNA)	EPA 533
	EPA 537.1, Version 2
Perfluorooctanesulfonic Acid (PFOS)	EPA 533
	EPA 537.1, Version 2
Perfluorooctanoic Acid (PFOA)	EPA 533
	EPA 537.1, Version 2
Perfluoropentanesulfonic Acid (PFPeS	EPA 533
Perfluoropentanoic Acid (PFPeA)	EPA 533
Perfluorotetradecanoic Acid (PFTeDA)	EPA 537.1, Version 2

Serial No.: 72184

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All approved analytes are listed below:

Perfluorinated Alkyl Acids

Perfluoroundecanoic Acid (PFUnA)	EPA 533
	EPA 537.1, Version 2
PFEESA	EPA 533

Serial No.: 72184

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All approved analytes are listed below:

Amines

1,2-Diphenylhydrazine	EPA 8270E
2-Nitroaniline	EPA 8270E
3-Nitroaniline	EPA 8270E
4-Chloroaniline	EPA 8270E
4-Nitroaniline	EPA 8270E
Aniline	EPA 8270E
Carbazole	EPA 8270E
Pyridine	EPA 8270E

Benzidines

3,3'-Dichlorobenzidine	EPA 8270E
Benzidine	EPA 8270E

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
4,4'-DDE	EPA 8081B
4,4'-DDT	EPA 8081B
Aldrin	EPA 8081B
alpha-BHC	EPA 8081B
alpha-Chlordane	EPA 8081B
beta-BHC	EPA 8081B
Chlordane Total	EPA 8081B
delta-BHC	EPA 8081B
Dieldrin	EPA 8081B
Endosulfan I	EPA 8081B
Endosulfan II	EPA 8081B
Endosulfan sulfate	EPA 8081B
Endrin	EPA 8081B

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All approved analytes are listed below:

Chlorinated Hydrocarbon Pesticides

Endrin aldehyde	EPA 8081B
Endrin Ketone	EPA 8081B
Heptachlor	EPA 8081B
Heptachlor epoxide	EPA 8081B
Isodrin	EPA 8081B
Lindane	EPA 8081B
Methoxychlor	EPA 8081B
Mirex	EPA 8081B
PCNB	EPA 8270E
Toxaphene	EPA 8081B
trans-Chlordane	EPA 8081B

Chlorinated Hydrocarbons

1,2,4,5-Tetrachlorobenzene	EPA 8270E
1,2,4-Trichlorobenzene	EPA 8270E
2-Chloronaphthalene	EPA 8270E
Hexachlorobenzene	EPA 8081B
	EPA 8270E
Hexachlorobutadiene	EPA 8270E
Hexachlorocyclopentadiene	EPA 8270E
Hexachloroethane	EPA 8270E

Fuel Oxygenates

Ethanol	EPA 8015D
tert-amyl alcohol	EPA 8015D
tert-butyl alcohol	EPA 8015D

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 8270E

Serial No.: 72185

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. JOHN TRIMBLE
PACE ANALYTICAL SERVICES, LLC - MANSFIELD, MA (320 FORBES)
320 FORBES BOULEVARD
MANSFIELD, MA 02048

NY Lab Id No: 11627

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES NON POTABLE WATER
All approved analytes are listed below:

Haloethers

4-Bromophenylphenyl ether	EPA 8270E
4-Chlorophenylphenyl ether	EPA 8270E
Bis(2-chloroethoxy)methane	EPA 8270E
Bis(2-chloroethyl)ether	EPA 8270E

Low Level Polynuclear Aromatics

Acenaphthene Low Level	EPA 8270E SIM
Acenaphthylene Low Level	EPA 8270E SIM
Anthracene Low Level	EPA 8270E SIM
Benzo(a)anthracene Low Level	EPA 8270E SIM
Benzo(a)pyrene Low Level	EPA 8270E SIM
Benzo(b)fluoranthene Low Level	EPA 8270E SIM
Benzo(g,h,i)perylene Low Level	EPA 8270E SIM
Benzo(k)fluoranthene Low Level	EPA 8270E SIM
Chrysene Low Level	EPA 8270E SIM
Dibenzo(a,h)anthracene Low Level	EPA 8270E SIM
Fluoranthene Low Level	EPA 8270E SIM
Fluorene Low Level	EPA 8270E SIM
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270E SIM
Naphthalene Low Level	EPA 8270E SIM
Phenanthrene Low Level	EPA 8270E SIM
Pyrene Low Level	EPA 8270E SIM

Metals I

Barium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)

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Metals I

Cadmium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Calcium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Chromium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Copper, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Iron, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Lead, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Magnesium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B

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Metals I

Magnesium, Total	EPA 200.8, Rev. 5.4 (1994)
Manganese, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Nickel, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Potassium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Silver, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Sodium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Strontium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B

Metals II

Aluminum, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D

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Metals II

Aluminum, Total	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Antimony, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Arsenic, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Beryllium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Mercury, Low Level	EPA 245.7, Rev. 2.0 (2005)
	EPA 1631E
Mercury, Total	EPA 245.1, Rev. 3.0 (1994)
	EPA 7470A
Selenium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Vanadium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Zinc, Total	EPA 200.7, Rev. 4.4 (1994)

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Metals II

Zinc, Total	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)

Metals III

Cobalt, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Molybdenum, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Thallium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)
Tin, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D
	EPA 6020B
Titanium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D

Mineral

Calcium Hardness	EPA 200.7, Rev. 4.4 (1994)
Hardness, Total	SM 2340B-2011

Miscellaneous

Boron, Total	EPA 200.7, Rev. 4.4 (1994)

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Miscellaneous

Boron, Total	EPA 6010D
	EPA 6020B
Silica, Dissolved	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D

Nitroaromatics and Isophorone

2,4-Dinitrotoluene	EPA 8270E
2,6-Dinitrotoluene	EPA 8270E
Isophorone	EPA 8270E
Nitrobenzene	EPA 8270E

Nitrosoamines

N-Nitrosodimethylamine	EPA 8270E
N-Nitrosodi-n-propylamine	EPA 8270E
N-Nitrosodiphenylamine	EPA 8270E

Organophosphate Pesticides

Atrazine	EPA 8270E

Perfluorinated Alkyl Acids

11Cl-PF3OUdS	EPA 1633A
3:3 FTCA	EPA 1633A
4:2FTS	EPA 1633A
5:3 FTCA	EPA 1633A
6:2FTS	EPA 1633A
7:3 FTCA	EPA 1633A
8:2FTS	EPA 1633A
9Cl-PF3ONS	EPA 1633A
ADONA	EPA 1633A
HFPO-DA (GenX)	EPA 1633A

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Perfluorinated Alkyl Acids

NEtFOSA	EPA 1633A
NEtFOSAA	EPA 1633A
NEtFOSE	EPA 1633A
NFDHA	EPA 1633A
NMeFOSA	EPA 1633A
NMeFOSAA	EPA 1633A
NMeFOSE	EPA 1633A
Perflourotridecanoic Acid (PFTrDA)	EPA 1633A
Perfluordecanoic Acid (PFDA)	EPA 1633A
Perfluoro-3-Methoxypropanoic Acid (F	EPA 1633A
Perfluoro-4-Methoxybutanoic Acid (PF	EPA 1633A
Perfluorobutanesulfonic Acid (PFBS)	EPA 1633A
Perfluorobutanoic Acid (PFBA)	EPA 1633A
Perfluorodecanesulfonic acid (PFDS)	EPA 1633A
Perfluorododecanesulfonic acid (PFDc	EPA 1633A
Perfluorododecanoic Acid (PFDoA)	EPA 1633A
Perfluoroheptanesulfonic Acid (PFHpS	EPA 1633A
Perfluoroheptanoic Acid (PFHpA)	EPA 1633A
Perfluorohexanesulfonic Acid (PFHxS	EPA 1633A
Perfluorohexanoic Acid (PFHxA)	EPA 1633A
Perfluorononanesulfonic acid (PFNS)	EPA 1633A
Perfluorononanoic Acid (PFNA)	EPA 1633A
Perfluorooctanesulfonamide (PFOSA)	EPA 1633A
Perfluorooctanesulfonic Acid (PFOS)	EPA 1633A
Perfluorooctanoic Acid (PFOA)	EPA 1633A
Perfluoropentanesulfonic Acid (PFPeS	EPA 1633A
Perfluoropentanoic Acid (PFPeA)	EPA 1633A

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Perfluorinated Alkyl Acids

Perfluorotetradecanoic Acid (PFTeDA)	EPA 1633A
Perfluoroundecanoic Acid (PFUnA)	EPA 1633A
PFEESA	EPA 1633A

Petroleum Hydrocarbons

Diesel Range Organics	EPA 8015D

Phthalate Esters

Benzyl butyl phthalate	EPA 8270E
Bis(2-ethylhexyl) phthalate	EPA 8270E
Diethyl phthalate	EPA 8270E
Dimethyl phthalate	EPA 8270E
Di-n-butyl phthalate	EPA 8270E
Di-n-octyl phthalate	EPA 8270E

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A
Aroclor 1221 (PCB-1221)	EPA 8082A
Aroclor 1232 (PCB-1232)	EPA 8082A
Aroclor 1242 (PCB-1242)	EPA 8082A
Aroclor 1248 (PCB-1248)	EPA 8082A
Aroclor 1254 (PCB-1254)	EPA 8082A
Aroclor 1260 (PCB-1260)	EPA 8082A
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A

Polynuclear Aromatics

Acenaphthene	EPA 8270E
Acenaphthylene	EPA 8270E
Anthracene	EPA 8270E

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Polynuclear Aromatics

Benzo(a)anthracene	EPA 8270E
Benzo(a)pyrene	EPA 8270E
Benzo(b)fluoranthene	EPA 8270E
Benzo(g,h,i)perylene	EPA 8270E
Benzo(k)fluoranthene	EPA 8270E
Chrysene	EPA 8270E
Dibenzo(a,h)anthracene	EPA 8270E
Fluoranthene	EPA 8270E
Fluorene	EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 8270E
Naphthalene	EPA 8270E
Phenanthrene	EPA 8270E
Pyrene	EPA 8270E

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270E
2,4,5-Trichlorophenol	EPA 8270E
2,4,6-Trichlorophenol	EPA 8270E
2,4-Dichlorophenol	EPA 8270E
2,4-Dimethylphenol	EPA 8270E
2,4-Dinitrophenol	EPA 8270E
2-Chlorophenol	EPA 8270E
2-Methyl-4,6-dinitrophenol	EPA 8270E
2-Methylphenol	EPA 8270E
2-Nitrophenol	EPA 8270E
3-Methylphenol	EPA 8270E
4-Chloro-3-methylphenol	EPA 8270E
4-Methylphenol	EPA 8270E

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Priority Pollutant Phenols

4-Nitrophenol	EPA 8270E
Pentachlorophenol	EPA 8270E
Phenol	EPA 8270E

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270E
1,2-Dichlorobenzene, Semi-volatile	EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270E
2-Methylnaphthalene	EPA 8270E
Acetophenone	EPA 8270E
Benzaldehyde	EPA 8270E
Benzoic Acid	EPA 8270E
Benzyl alcohol	EPA 8270E
Caprolactam	EPA 8270E
Dibenzofuran	EPA 8270E

Volatiles Organics

1,4-Dioxane	EPA 8270E SIM
Ethylene Glycol	EPA 8015D
Isobutyl alcohol	EPA 8015D
Methanol	EPA 8015D
Propylene Glycol	EPA 8015D

Sample Preparation Methods

	EPA 3015A
	EPA 3005A
	EPA 3510C

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All approved analytes are listed below:

Amines

1,2-Diphenylhydrazine	EPA 8270E
2-Nitroaniline	EPA 8270E
3-Nitroaniline	EPA 8270E
4-Chloroaniline	EPA 8270E
4-Nitroaniline	EPA 8270E
Aniline	EPA 8270E
Carbazole	EPA 8270E

Benzidines

3,3'-Dichlorobenzidine	EPA 8270E
Benzidine	EPA 8270E

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
4,4'-DDE	EPA 8081B
4,4'-DDT	EPA 8081B
Aldrin	EPA 8081B
alpha-BHC	EPA 8081B
alpha-Chlordane	EPA 8081B
beta-BHC	EPA 8081B
Chlordane Total	EPA 8081B
delta-BHC	EPA 8081B
Dieldrin	EPA 8081B
Endosulfan I	EPA 8081B
Endosulfan II	EPA 8081B
Endosulfan sulfate	EPA 8081B
Endrin	EPA 8081B
Endrin aldehyde	EPA 8081B

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All approved analytes are listed below:

Chlorinated Hydrocarbon Pesticides

Endrin Ketone	EPA 8081B
Heptachlor	EPA 8081B
Heptachlor epoxide	EPA 8081B
Lindane	EPA 8081B
Methoxychlor	EPA 8081B
Mirex	EPA 8081B
Pentachloronitrobenzene	EPA 8270E
Toxaphene	EPA 8081B
trans-Chlordane	EPA 8081B

Chlorinated Hydrocarbons

1,2,4,5-Tetrachlorobenzene	EPA 8270E
1,2,4-Trichlorobenzene	EPA 8270E
2-Chloronaphthalene	EPA 8270E
Hexachlorobenzene	EPA 8270E
Hexachlorobutadiene	EPA 8270E
Hexachlorocyclopentadiene	EPA 8270E
Hexachloroethane	EPA 8270E

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 8270E
4-Bromophenylphenyl ether	EPA 8270E
4-Chlorophenylphenyl ether	EPA 8270E
Bis(2-chloroethoxy)methane	EPA 8270E
Bis(2-chloroethyl)ether	EPA 8270E

Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthene Low Level	EPA 8270E SIM
Acenaphthylene Low Level	EPA 8270E SIM

Serial No.: 72186

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. JOHN TRIMBLE
PACE ANALYTICAL SERVICES, LLC - MANSFIELD, MA (320 FORBES)
320 FORBES BOULEVARD
MANSFIELD, MA 02048

NY Lab Id No: 11627

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Low Level Polynuclear Aromatic Hydrocarbons

Anthracene Low Level	EPA 8270E SIM
Benzo(a)anthracene Low Level	EPA 8270E SIM
Benzo(a)pyrene Low Level	EPA 8270E SIM
Benzo(b)fluoranthene Low Level	EPA 8270E SIM
Benzo(g,h,i)perylene Low Level	EPA 8270E SIM
Benzo(k)fluoranthene Low Level	EPA 8270E SIM
Chrysene Low Level	EPA 8270E SIM
Dibenzo(a,h)anthracene Low Level	EPA 8270E SIM
Fluoranthene Low Level	EPA 8270E SIM
Fluorene Low Level	EPA 8270E SIM
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270E SIM
Naphthalene Low Level	EPA 8270E SIM
Phenanthrene Low Level	EPA 8270E SIM
Pyrene Low Level	EPA 8270E SIM

Metals I

Barium, Total	EPA 6010D
	EPA 6020B
Cadmium, Total	EPA 6010D
	EPA 6020B
Calcium, Total	EPA 6010D
	EPA 6020B
Chromium, Total	EPA 6010D
	EPA 6020B
Copper, Total	EPA 6010D
	EPA 6020B
Iron, Total	EPA 6010D
	EPA 6020B

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Metals I

Lead, Total	EPA 6010D
	EPA 6020B
Magnesium, Total	EPA 6010D
	EPA 6020B
Manganese, Total	EPA 6010D
	EPA 6020B
Nickel, Total	EPA 6010D
	EPA 6020B
Potassium, Total	EPA 6010D
	EPA 6020B
Silver, Total	EPA 6010D
	EPA 6020B
Sodium, Total	EPA 6010D
	EPA 6020B
Strontium, Total	EPA 6010D
	EPA 6020B

Metals II

Aluminum, Total	EPA 6010D
	EPA 6020B
Antimony, Total	EPA 6010D
	EPA 6020B
Arsenic, Total	EPA 6010D
	EPA 6020B
Beryllium, Total	EPA 6010D
	EPA 6020B
Lithium, Total	EPA 6010D
Mercury, Total	EPA 7471B

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Metals II

Mercury, Total	EPA 7474
Selenium, Total	EPA 6010D
	EPA 6020B
Vanadium, Total	EPA 6010D
	EPA 6020B
Zinc, Total	EPA 6010D
	EPA 6020B

Metals III

Cobalt, Total	EPA 6010D
	EPA 6020B
Molybdenum, Total	EPA 6010D
	EPA 6020B
Thallium, Total	EPA 6010D
	EPA 6020B
Tin, Total	EPA 6010D
	EPA 6020B
Titanium, Total	EPA 6010D

Miscellaneous

Boron, Total	EPA 6010D

Nitroaromatics and Isophorone

2,4-Dinitrotoluene	EPA 8270E
2,6-Dinitrotoluene	EPA 8270E
Isophorone	EPA 8270E
Nitrobenzene	EPA 8270E
Pyridine	EPA 8270E

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Nitrosoamines

N-Nitrosodimethylamine	EPA 8270E
N-Nitrosodi-n-propylamine	EPA 8270E
N-Nitrosodiphenylamine	EPA 8270E

Perfluorinated Alkyl Acids

11Cl-PF3OUdS	EPA 1633A
3:3 FTCA	EPA 1633A
4:2FTS	EPA 1633A
5:3 FTCA	EPA 1633A
6:2FTS	EPA 1633A
7:3 FTCA	EPA 1633A
8:2FTS	EPA 1633A
9Cl-PF3ONS	EPA 1633A
ADONA	EPA 1633A
HFPO-DA (GenX)	EPA 1633A
NEtFOSA	EPA 1633A
NEtFOSAA	EPA 1633A
NEtFOSE	EPA 1633A
NFDHA	EPA 1633A
NMeFOSA	EPA 1633A
NMeFOSAA	EPA 1633A
NMeFOSE	EPA 1633A
Perflourotridecanoic Acid (PFTrDA)	EPA 1633A
Perfluordecanoic Acid (PFDA)	EPA 1633A
Perfluoro-3-Methoxypropanoic Acid (F	EPA 1633A
Perfluoro-4-Methoxybutanoic Acid (PF	EPA 1633A
Perfluorobutanesulfonic Acid (PFBS)	EPA 1633A
Perfluorobutanoic Acid (PFBA)	EPA 1633A

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Perfluorinated Alkyl Acids

Perfluorodecanesulfonic acid (PFDS)	EPA 1633A
Perfluorododecanesulfonic acid (PFDc	EPA 1633A
Perfluorododecanoic Acid (PFDoA)	EPA 1633A
Perfluoroheptanesulfonic Acid (PFHpS	EPA 1633A
Perfluoroheptanoic Acid (PFHpA)	EPA 1633A
Perfluorohexanesulfonic Acid (PFHxS	EPA 1633A
Perfluorohexanoic Acid (PFHxA)	EPA 1633A
Perfluorononanesulfonic acid (PFNS)	EPA 1633A
Perfluorononanoic Acid (PFNA)	EPA 1633A
Perfluorooctanesulfonamide (PFOSA)	EPA 1633A
Perfluorooctanesulfonic Acid (PFOS)	EPA 1633A
Perfluorooctanoic Acid (PFOA)	EPA 1633A
Perfluoropentanesulfonic Acid (PFPeS	EPA 1633A
Perfluoropentanoic Acid (PFPeA)	EPA 1633A
Perfluorotetradecanoic Acid (PFTeDA)	EPA 1633A
Perfluoroundecanoic Acid (PFUnA)	EPA 1633A
PFEESA	EPA 1633A

Petroleum Hydrocarbons

Diesel Range Organics	EPA 8015D

Phthalate Esters

Benzyl butyl phthalate	EPA 8270E
Bis(2-ethylhexyl) phthalate	EPA 8270E
Diethyl phthalate	EPA 8270E
Dimethyl phthalate	EPA 8270E
Di-n-butyl phthalate	EPA 8270E
Di-n-octyl phthalate	EPA 8270E

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Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A
Aroclor 1221 (PCB-1221)	EPA 8082A
Aroclor 1232 (PCB-1232)	EPA 8082A
Aroclor 1242 (PCB-1242)	EPA 8082A
Aroclor 1248 (PCB-1248)	EPA 8082A
Aroclor 1254 (PCB-1254)	EPA 8082A
Aroclor 1260 (PCB-1260)	EPA 8082A
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A

Polynuclear Aromatic Hydrocarbons

Acenaphthene	EPA 8270E
Acenaphthylene	EPA 8270E
Anthracene	EPA 8270E
Benzo(a)anthracene	EPA 8270E
Benzo(a)pyrene	EPA 8270E
Benzo(b)fluoranthene	EPA 8270E
Benzo(g,h,i)perylene	EPA 8270E
Benzo(k)fluoranthene	EPA 8270E
Chrysene	EPA 8270E
Dibenzo(a,h)anthracene	EPA 8270E
Fluoranthene	EPA 8270E
Fluorene	EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 8270E
Naphthalene	EPA 8270E
Phenanthrene	EPA 8270E
Pyrene	EPA 8270E

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Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270E
2,4,5-Trichlorophenol	EPA 8270E
2,4,6-Trichlorophenol	EPA 8270E
2,4-Dichlorophenol	EPA 8270E
2,4-Dimethylphenol	EPA 8270E
2,4-Dinitrophenol	EPA 8270E
2-Chlorophenol	EPA 8270E
2-Methyl-4,6-dinitrophenol	EPA 8270E
2-Methylphenol	EPA 8270E
2-Nitrophenol	EPA 8270E
3-Methylphenol	EPA 8270E
4-Chloro-3-methylphenol	EPA 8270E
4-Methylphenol	EPA 8270E
4-Nitrophenol	EPA 8270E
Pentachlorophenol	EPA 8270E
Phenol	EPA 8270E

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270E
1,2-Dichlorobenzene, Semi-volatile	EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270E
2-Methylnaphthalene	EPA 8270E
Acetophenone	EPA 8270E
Benzaldehyde	EPA 8270E
Benzoic Acid	EPA 8270E
Benzyl alcohol	EPA 8270E
Caprolactam	EPA 8270E

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Semi-Volatile Organics

Dibenzofuran	EPA 8270E

Volatile Organics

1,4-Dioxane	EPA 8270E SIM
Ethylene Glycol	EPA 8015D
Isobutyl alcohol	EPA 8015D
tert-butyl alcohol	EPA 8015D

Sample Preparation Methods

	EPA 3570
	EPA 3580A
	EPA 3050B
	EPA 3051A

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MR. MARCO SOARES
PACE ANALYTICAL SERVICES, LLC - WESTBOROUGH, MA
8 WALKUP DR
WESTBOROUGH, MA 01581-1019

NY Lab Id No: 11148

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES POTABLE WATER
All approved analytes are listed below:

Bacteriology

Coliform, Total / E. coli (Qualitative)	SM 20, 21-23 9223B (-04) (Colilert)
E. coli (Enumeration)	SM 20, 21-23 9223B (-04) (Colilert)
Heterotrophic Plate Count	SM 20, 21-23 9215B (-04)

Fuel Additives

Methyl tert-butyl ether	EPA 524.2
Naphthalene	EPA 524.2

Microextractables

1,2,3-Trichloropropane, Low Level	EPA 504.1
1,2-Dibromo-3-chloropropane, Low Le	EPA 504.1
1,2-Dibromoethane, Low Level	EPA 504.1

Miscellaneous

Odor	SM 21-23 2150 B (-97)
Organic Carbon, Dissolved	SM 21-23 5310C (-00)
Organic Carbon, Total	SM 21-23 5310C (-00)
Turbidity	SM 21-23 2130 B (-01)
	EPA 180.1 Rev. 2.0

Non-Metals

Alkalinity	SM 21-23 2320B (-97)
Chloride	EPA 300.0 Rev. 2.1
Color	SM 21-23 2120B (-01)
Cyanide	SM 20, 21-23 4500-CN E
Fluoride, Total	EPA 300.0 Rev. 2.1
	SM 21-23 4500-F C (-97)
Nitrate (as N)	EPA 353.2 Rev. 2.0
	EPA 300.0 Rev. 2.1
	SM 21-23 4500-NO3 F (-00)

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All approved analytes are listed below:

Non-Metals

Nitrite (as N)	EPA 353.2 Rev. 2.0
	SM 21-23 4500-NO3 F (-00)
	SM 21-23 4500-NO2 B (-00)
Orthophosphate (as P)	SM 19, 21-23 4500-P E (-99)
Solids, Total Dissolved	SM 21-23 2540C (-97)
Specific Conductance	SM 21-23 2510B (-97)
Sulfate (as SO4)	EPA 300.0 Rev. 2.1

Trihalomethanes

Bromodichloromethane	EPA 524.2
Bromoform	EPA 524.2
Chloroform	EPA 524.2
Dibromochloromethane	EPA 524.2
Total Trihalomethanes	EPA 524.2

Volatile Aromatics

1,2,3-Trichlorobenzene	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenzene	EPA 524.2
1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2
Benzene	EPA 524.2
Bromobenzene	EPA 524.2
Chlorobenzene	EPA 524.2

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Volatile Aromatics

Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
p-Isopropyltoluene (P-Cymene)	EPA 524.2
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2
tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2
Total Xylenes	EPA 524.2

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2
1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2-Dichloroethane	EPA 524.2
1,2-Dichloropropane	EPA 524.2
1,3-Dichloropropane	EPA 524.2
2,2-Dichloropropane	EPA 524.2
Bromochloromethane	EPA 524.2
Bromomethane	EPA 524.2
Carbon tetrachloride	EPA 524.2

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All approved analytes are listed below:

Volatile Halocarbons

Chloroethane	EPA 524.2
Chloromethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2
Vinyl chloride	EPA 524.2

Sample Preparation Methods

SM 20, 21-23 4500-CN C (-99)

Serial No.: 72037

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WADSWORTH CENTER

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CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. MARCO SOARES
PACE ANALYTICAL SERVICES, LLC - WESTBOROUGH, MA
8 WALKUP DR
WESTBOROUGH, MA 01581-1019

NY Lab Id No: 11148

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All approved analytes are listed below:

Acrylates	
Acrolein (Propenal)	EPA 8260D
	EPA 624.1
Acrylonitrile	EPA 8260D
	EPA 624.1
Ethyl methacrylate	EPA 8260D
Methyl methacrylate	EPA 8260D
Amines	
1,2-Diphenylhydrazine	EPA 625.1
	EPA 8270E
2-Naphthylamine	EPA 8270E
2-Nitroaniline	EPA 8270E
3-Nitroaniline	EPA 8270E
4-Chloroaniline	EPA 8270E
4-Nitroaniline	EPA 8270E
Aniline	EPA 625.1
	EPA 8270E
Carbazole	EPA 625.1
	EPA 8270E
Diphenylamine	EPA 8270E
Pyridine	EPA 625.1
	EPA 8270E
Bacteriology	
Coliform, Fecal	Colilert-18
E. coli (Enumeration)	SM 9223B-2016
Benzidines	
3,3'-Dichlorobenzidine	EPA 625.1

Serial No.: 72038

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Benzidines

3,3'-Dichlorobenzidine	EPA 8270E
Benzidine	EPA 625.1
	EPA 8270E

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B
	EPA 608.3
4,4'-DDE	EPA 8081B
	EPA 608.3
4,4'-DDT	EPA 8081B
	EPA 608.3
Aldrin	EPA 8081B
	EPA 608.3
alpha-BHC	EPA 8081B
	EPA 608.3
alpha-Chlordane	EPA 8081B
	EPA 608.3
beta-BHC	EPA 8081B
	EPA 608.3
Chlordane Total	EPA 8081B
	EPA 608.3
delta-BHC	EPA 8081B
	EPA 608.3
Dieldrin	EPA 8081B
	EPA 608.3
Endosulfan I	EPA 8081B
	EPA 608.3
Endosulfan II	EPA 8081B

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Chlorinated Hydrocarbon Pesticides

Endosulfan II	EPA 608.3
Endosulfan sulfate	EPA 8081B
	EPA 608.3
Endrin	EPA 8081B
	EPA 608.3
Endrin aldehyde	EPA 8081B
	EPA 608.3
Endrin Ketone	EPA 8081B
Heptachlor	EPA 8081B
	EPA 608.3
Heptachlor epoxide	EPA 8081B
	EPA 608.3
Lindane	EPA 8081B
	EPA 608.3
Methoxychlor	EPA 8081B
	EPA 608.3
Mirex	EPA 608.3
PCNB	EPA 8270E
Toxaphene	EPA 8081B
	EPA 608.3
trans-Chlordane	EPA 8081B
	EPA 608.3

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260D
1,2,4,5-Tetrachlorobenzene	EPA 8270E
1,2,4-Trichlorobenzene	EPA 625.1
	EPA 8270E

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Chlorinated Hydrocarbons

2-Chloronaphthalene	EPA 625.1
	EPA 8270E
Hexachlorobenzene	EPA 625.1
	EPA 8270E
Hexachlorobutadiene	EPA 625.1
	EPA 8270E
Hexachlorocyclopentadiene	EPA 625.1
	EPA 8270E
Hexachloroethane	EPA 625.1
	EPA 8270E

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
2,4-DB	EPA 8151A
Dalapon	EPA 8151A
Dicamba	EPA 8151A
Dichloroprop	EPA 8151A
Dinoseb	EPA 8151A

Demand

Biochemical Oxygen Demand	SM 5210B-2016
Carbonaceous BOD	SM 5210B-2016
Chemical Oxygen Demand	EPA 410.4, Rev. 2.0 (1993)
	SM 5220D-2011

Fuel Oxygenates

Di-isopropyl ether	EPA 8260D

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Fuel Oxygenates

Ethanol	EPA 8260D
	EPA 624.1
Methyl tert-butyl ether	EPA 8260D
	EPA 624.1
tert-amyl methyl ether (TAME)	EPA 8260D
tert-butyl alcohol	EPA 8260D
	EPA 624.1
tert-butyl ethyl ether (ETBE)	EPA 8260D

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 625.1
	EPA 8270E
4-Bromophenylphenyl ether	EPA 625.1
	EPA 8270E
4-Chlorophenylphenyl ether	EPA 625.1
	EPA 8270E
Bis(2-chloroethoxy)methane	EPA 625.1
	EPA 8270E
Bis(2-chloroethyl)ether	EPA 625.1
	EPA 8270E

Low Level Halocarbons

1,2,3-Trichloropropane, Low Level	EPA 8011
1,2-Dibromo-3-chloropropane, Low Le	EPA 8011
1,2-Dibromoethane, Low Level	EPA 8011

Low Level Polynuclear Aromatics

Acenaphthene Low Level	EPA 8270E SIM
Acenaphthylene Low Level	EPA 8270E SIM

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Low Level Polynuclear Aromatics

Anthracene Low Level	EPA 8270E SIM
Benzo(a)anthracene Low Level	EPA 8270E SIM
Benzo(a)pyrene Low Level	EPA 8270E SIM
Benzo(b)fluoranthene Low Level	EPA 8270E SIM
Benzo(g,h,i)perylene Low Level	EPA 8270E SIM
Benzo(k)fluoranthene Low Level	EPA 8270E SIM
Chrysene Low Level	EPA 8270E SIM
Dibenzo(a,h)anthracene Low Level	EPA 8270E SIM
Fluoranthene Low Level	EPA 8270E SIM
Fluorene Low Level	EPA 8270E SIM
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270E SIM
Naphthalene Low Level	EPA 8270E SIM
Phenanthrene Low Level	EPA 8270E SIM
Pyrene Low Level	EPA 8270E SIM

Metals I

Iron, Total	SM 3500-Fe B-2011

Metals II

Chromium VI	EPA 7196A
	SM 3500-Cr B-2011

Mineral

Acidity	SM 2310B-2011
Alkalinity	SM 2320B-2011
Chloride	EPA 300.0, Rev. 2.1 (1993)
	SM 4500-Cl- E-2011
	EPA 9056A
Fluoride, Total	EPA 300.0, Rev. 2.1 (1993)

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Mineral

Fluoride, Total	SM 4500-F- C-2011
	EPA 9056A
Sulfate (as SO4)	EPA 300.0, Rev. 2.1 (1993)
	SM 4500-SO4- E-2011
	EPA 9056A

Miscellaneous

Bromide	EPA 300.0, Rev. 2.1 (1993)
Color	SM 2120B-2011
Cyanide, Total	LACHAT QuikChem 10-204-00-1-X
	EPA 9014
	SM 4500-CN E-2016
	EPA 9012B
Formaldehyde	EPA 8315A
non-Polar Extractable Material (TPH)	EPA 1664B
Oil and Grease Total Recoverable	EPA 1664B
Organic Carbon, Total	SM 5310C-2014
	EPA 9060A
Phenols	EPA 420.1 (Rev. 1978)
	EPA 9065
Specific Conductance	EPA 120.1 (Rev. 1982)
	SM 2510B-2011
	EPA 9050A
Sulfide (as S)	SM 4500-S2- D-2011
Surfactant (MBAS)	SM 5540C-2011
Turbidity	SM 2130 B-2011
	EPA 180.1, Rev. 2.0 (1993)

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Nitroaromatics and Isophorone

1,3-Dinitrobenzene	EPA 8270E
2,4-Dinitrotoluene	EPA 625.1
	EPA 8270E
2,6-Dinitrotoluene	EPA 625.1
	EPA 8270E
Isophorone	EPA 625.1
	EPA 8270E
Nitrobenzene	EPA 625.1
	EPA 8270E

Nitrosoamines

N-Nitrosodimethylamine	EPA 625.1
	EPA 8270E
N-Nitrosodi-n-propylamine	EPA 625.1
	EPA 8270E
N-Nitrosodiphenylamine	EPA 625.1
	EPA 8270E

Nutrient

Ammonia (as N)	SM 4500-NH3 H-2011
	EPA 350.1, Rev. 2.0 (1993)
Kjeldahl Nitrogen, Total	EPA 351.1 (Rev. 1978)
	SM 4500-NH3 H-2011
Nitrate (as N)	EPA 353.2, Rev. 2.0 (1993)
	EPA 300.0, Rev. 2.1 (1993)
	SM 4500-NO3 F-2016
	EPA 9056A
Nitrate plus Nitrite (as N)	EPA 353.2, Rev. 2.0 (1993)

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Nutrient	
Nitrate plus Nitrite (as N)	SM 4500-NO3 F-2016
Nitrite (as N)	EPA 353.2, Rev. 2.0 (1993)
	SM 4500-NO3 F-2016
	SM 4500-NO2 B-2011
Orthophosphate (as P)	SM 4500-P E-2011
Phosphorus, Total	SM 4500-P E-2011
Organophosphate Pesticides	
Atrazine	EPA 625.1
	EPA 8270E
Parathion ethyl	EPA 8270E
Thionazin	EPA 8270E
Petroleum Hydrocarbons	
Diesel Range Organics	EPA 8015D
Gasoline Range Organics	EPA 8015D
Phthalate Esters	
Benzyl butyl phthalate	EPA 625.1
	EPA 8270E
Bis(2-ethylhexyl) phthalate	EPA 625.1
	EPA 8270E
Diethyl phthalate	EPA 625.1
	EPA 8270E
Dimethyl phthalate	EPA 625.1
	EPA 8270E
Di-n-butyl phthalate	EPA 625.1
	EPA 8270E
Di-n-octyl phthalate	EPA 625.1

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Phthalate Esters	
Di-n-octyl phthalate	EPA 8270E
Polychlorinated Biphenyls	
Aroclor 1016 (PCB-1016)	EPA 8082A
	EPA 608.3
Aroclor 1221 (PCB-1221)	EPA 8082A
	EPA 608.3
Aroclor 1232 (PCB-1232)	EPA 8082A
	EPA 608.3
Aroclor 1242 (PCB-1242)	EPA 8082A
	EPA 608.3
Aroclor 1248 (PCB-1248)	EPA 8082A
	EPA 608.3
Aroclor 1254 (PCB-1254)	EPA 8082A
	EPA 608.3
Aroclor 1260 (PCB-1260)	EPA 8082A
	EPA 608.3
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A
Polynuclear Aromatics	
Acenaphthene	EPA 625.1
	EPA 8270E
Acenaphthylene	EPA 625.1
	EPA 8270E
Anthracene	EPA 625.1
	EPA 8270E
Benzo(a)anthracene	EPA 625.1

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Polynuclear Aromatics

Benzo(a)anthracene	EPA 8270E
Benzo(a)pyrene	EPA 625.1
	EPA 8270E
Benzo(b)fluoranthene	EPA 625.1
	EPA 8270E
Benzo(g,h,i)perylene	EPA 625.1
	EPA 8270E
Benzo(k)fluoranthene	EPA 625.1
	EPA 8270E
Chrysene	EPA 625.1
	EPA 8270E
Dibenzo(a,h)anthracene	EPA 625.1
	EPA 8270E
Fluoranthene	EPA 625.1
	EPA 8270E
Fluorene	EPA 625.1
	EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 625.1
	EPA 8270E
Naphthalene	EPA 625.1
	EPA 8270E
Phenanthrene	EPA 625.1
	EPA 8270E
Pyrene	EPA 625.1
	EPA 8270E

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270E

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Priority Pollutant Phenols

2,4,5-Trichlorophenol	EPA 625.1
	EPA 8270E
2,4,6-Trichlorophenol	EPA 625.1
	EPA 8270E
2,4-Dichlorophenol	EPA 625.1
	EPA 8270E
2,4-Dimethylphenol	EPA 625.1
	EPA 8270E
2,4-Dinitrophenol	EPA 625.1
	EPA 8270E
2-Chlorophenol	EPA 625.1
	EPA 8270E
2-Methyl-4,6-dinitrophenol	EPA 625.1
	EPA 8270E
2-Methylphenol	EPA 625.1
	EPA 8270E
2-Nitrophenol	EPA 625.1
	EPA 8270E
3-Methylphenol	EPA 625.1
	EPA 8270E
4-Chloro-3-methylphenol	EPA 625.1
	EPA 8270E
4-Methylphenol	EPA 625.1
	EPA 8270E
4-Nitrophenol	EPA 625.1
	EPA 8270E
Cresols, Total	EPA 8270E

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Priority Pollutant Phenols

Pentachlorophenol	EPA 625.1
	EPA 8270E
Phenol	EPA 625.1
	EPA 8270E

Residue

Settleable Solids	SM 2540 F-2015
Solids, Total	SM 2540 B-2015
Solids, Total Dissolved	SM 2540 C-2015
Solids, Total Suspended	SM 2540 D-2015
Solids, Volatile	SM 2540 E-2015

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270E
1,2-Dichlorobenzene, Semi-volatile	EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270E
2-Methylnaphthalene	EPA 625.1
	EPA 8270E
Acetophenone	EPA 625.1
	EPA 8270E
Benzaldehyde	EPA 8270E
Benzoic Acid	EPA 8270E
Benzyl alcohol	EPA 8270E
Caprolactam	EPA 8270E
Dibenzofuran	EPA 8270E
n-Decane	EPA 625.1
n-Octadecane	EPA 625.1

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WADSWORTH CENTER

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MR. MARCO SOARES
PACE ANALYTICAL SERVICES, LLC - WESTBOROUGH, MA
8 WALKUP DR
WESTBOROUGH, MA 01581-1019

NY Lab Id No: 11148

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Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260D
1,2,4-Trimethylbenzene	EPA 8260D
1,2-Dichlorobenzene	EPA 8260D
	EPA 624.1
1,3,5-Trimethylbenzene	EPA 8260D
1,3-Dichlorobenzene	EPA 8260D
	EPA 624.1
1,4-Dichlorobenzene	EPA 8260D
	EPA 624.1
2-Chlorotoluene	EPA 8260D
4-Chlorotoluene	EPA 8260D
Benzene	EPA 8260D
	EPA 624.1
Bromobenzene	EPA 8260D
Chlorobenzene	EPA 8260D
	EPA 624.1
Ethyl benzene	EPA 8260D
	EPA 624.1
Isopropylbenzene	EPA 8260D
m/p-Xylenes	EPA 8260D
Naphthalene, Volatile	EPA 8260D
n-Butylbenzene	EPA 8260D
n-Propylbenzene	EPA 8260D
o-Xylene	EPA 8260D
p-Isopropyltoluene (P-Cymene)	EPA 8260D
sec-Butylbenzene	EPA 8260D
Styrene	EPA 8260D

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Volatile Aromatics

Styrene	EPA 624.1
tert-Butylbenzene	EPA 8260D
Toluene	EPA 8260D
	EPA 624.1
Total Xylenes	EPA 8260D
	EPA 624.1

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260D
1,1,1-Trichloroethane	EPA 8260D
	EPA 624.1
1,1,2,2-Tetrachloroethane	EPA 8260D
	EPA 624.1
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260D
	EPA 624.1
1,1,2-Trichloroethane	EPA 8260D
	EPA 624.1
1,1-Dichloroethane	EPA 8260D
	EPA 624.1
1,1-Dichloroethene	EPA 8260D
	EPA 624.1
1,1-Dichloropropene	EPA 8260D
1,2,3-Trichloropropane	EPA 8260D
1,2-Dibromo-3-chloropropane	EPA 8260D
1,2-Dibromoethane	EPA 8260D
1,2-Dichloroethane	EPA 8260D
	EPA 624.1
1,2-Dichloropropane	EPA 8260D

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Volatile Halocarbons

1,2-Dichloropropane	EPA 624.1
1,3-Dichloropropane	EPA 8260D
2,2-Dichloropropane	EPA 8260D
2-Chloroethylvinyl ether	EPA 8260D
	EPA 624.1
Bromochloromethane	EPA 8260D
Bromodichloromethane	EPA 8260D
	EPA 624.1
Bromoform	EPA 8260D
	EPA 624.1
Bromomethane	EPA 8260D
	EPA 624.1
Carbon tetrachloride	EPA 8260D
	EPA 624.1
Chloroethane	EPA 8260D
	EPA 624.1
Chloroform	EPA 8260D
	EPA 624.1
Chloromethane	EPA 8260D
	EPA 624.1
cis-1,2-Dichloroethene	EPA 8260D
	EPA 624.1
cis-1,3-Dichloropropene	EPA 8260D
	EPA 624.1
Dibromochloromethane	EPA 8260D
	EPA 624.1
Dibromomethane	EPA 8260D

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Volatile Halocarbons

Dichlorodifluoromethane	EPA 8260D
	EPA 624.1
Hexachlorobutadiene, Volatile	EPA 8260D
Methyl iodide	EPA 8260D
Methylene chloride	EPA 8260D
	EPA 624.1
Tetrachloroethene	EPA 8260D
	EPA 624.1
trans-1,2-Dichloroethene	EPA 8260D
	EPA 624.1
trans-1,3-Dichloropropene	EPA 8260D
	EPA 624.1
trans-1,4-Dichloro-2-butene	EPA 8260D
Trichloroethene	EPA 8260D
	EPA 624.1
Trichlorofluoromethane	EPA 8260D
	EPA 624.1
Vinyl chloride	EPA 8260D
	EPA 624.1

Volatiles Organics

1,4-Dioxane	EPA 8260D
	EPA 8260D SIM
2-Butanone (Methylethyl ketone)	EPA 8260D
2-Hexanone	EPA 8260D
4-Methyl-2-Pentanone	EPA 8260D
	EPA 624.1
Acetone	EPA 8260D

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Volatiles Organics

Acetone	EPA 624.1
Carbon Disulfide	EPA 8260D
Cyclohexane	EPA 8260D
Di-ethyl ether	EPA 8260D
Ethyl Acetate	EPA 8260D
Hexane	EPA 8260D
Isopropanol	EPA 8260D
Methyl acetate	EPA 8260D
Methyl cyclohexane	EPA 8260D
n-Butanol	EPA 8260D
o-Toluidine	EPA 8270E
Tetrahydrofuran	EPA 8260D
Vinyl acetate	EPA 8260D
	EPA 624.1

Sample Preparation Methods

SM 4500-P B(5)-2011
EPA 5030C
SM 4500-CN B-2016 and C-2016
EPA 3511
EPA 9030B
EPA 3510C
SM 4500-NH3 B-2011
SM 4500-F B-2011
SM 4500-N Org B-2011 or C-2011
EPA 9010C

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Acrylates

Acrolein (Propenal)	EPA 8260D
Acrylonitrile	EPA 8260D
Ethyl methacrylate	EPA 8260D
Methyl methacrylate	EPA 8260D

Amines

1,2-Diphenylhydrazine	EPA 8270E
2-Nitroaniline	EPA 8270E
3-Nitroaniline	EPA 8270E
4-Chloroaniline	EPA 8270E
4-Nitroaniline	EPA 8270E
Aniline	EPA 8270E
Carbazole	EPA 8270E
Diphenylamine	EPA 8270E

Benzidines

3,3'-Dichlorobenzidine	EPA 8270E
Benzidine	EPA 8270E

Characteristic Testing

Corrosivity (pH)	EPA 9040C
	EPA 9045D
Free Liquids	EPA 9095B
Ignitability	EPA 1030
	EPA 1010A
Synthetic Precipitation Leaching Proc.	EPA 1312
TCLP	EPA 1311

Chlorinated Hydrocarbon Pesticides

4,4'-DDD	EPA 8081B

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Chlorinated Hydrocarbon Pesticides

4,4'-DDE	EPA 8081B
4,4'-DDT	EPA 8081B
Aldrin	EPA 8081B
alpha-BHC	EPA 8081B
alpha-Chlordane	EPA 8081B
Atrazine	EPA 8270E
beta-BHC	EPA 8081B
Chlordane Total	EPA 8081B
delta-BHC	EPA 8081B
Dieldrin	EPA 8081B
Endosulfan I	EPA 8081B
Endosulfan II	EPA 8081B
Endosulfan sulfate	EPA 8081B
Endrin	EPA 8081B
Endrin aldehyde	EPA 8081B
Endrin Ketone	EPA 8081B
Heptachlor	EPA 8081B
Heptachlor epoxide	EPA 8081B
Lindane	EPA 8081B
Methoxychlor	EPA 8081B
Pentachloronitrobenzene	EPA 8270E
Toxaphene	EPA 8081B
trans-Chlordane	EPA 8081B

Chlorinated Hydrocarbons

1,2,3-Trichlorobenzene	EPA 8260D
1,2,4,5-Tetrachlorobenzene	EPA 8270E
1,2,4-Trichlorobenzene	EPA 8270E

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Chlorinated Hydrocarbons

2-Chloronaphthalene	EPA 8270E
Hexachlorobenzene	EPA 8270E
Hexachlorobutadiene	EPA 8270E
Hexachlorocyclopentadiene	EPA 8270E
Hexachloroethane	EPA 8260D
	EPA 8270E

Chlorophenoxy Acid Pesticides

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
2,4-DB	EPA 8151A
Dalapon	EPA 8151A
Dicamba	EPA 8151A
Dichloroprop	EPA 8151A
MCPA	EPA 8151A
MCPP	EPA 8151A

Haloethers

2,2'-Oxybis(1-chloropropane)	EPA 8270E
4-Bromophenylphenyl ether	EPA 8270E
4-Chlorophenylphenyl ether	EPA 8270E
Bis(2-chloroethoxy)methane	EPA 8270E
Bis(2-chloroethyl)ether	EPA 8270E

Low Level Polynuclear Aromatic Hydrocarbons

Acenaphthene Low Level	EPA 8270E SIM
Acenaphthylene Low Level	EPA 8270E SIM
Anthracene Low Level	EPA 8270E SIM

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Low Level Polynuclear Aromatic Hydrocarbons

Benzo(a)anthracene Low Level	EPA 8270E SIM
Benzo(a)pyrene Low Level	EPA 8270E SIM
Benzo(b)fluoranthene Low Level	EPA 8270E SIM
Benzo(g,h,i)perylene Low Level	EPA 8270E SIM
Benzo(k)fluoranthene Low Level	EPA 8270E SIM
Chrysene Low Level	EPA 8270E SIM
Dibenzo(a,h)anthracene Low Level	EPA 8270E SIM
Fluoranthene Low Level	EPA 8270E SIM
Fluorene Low Level	EPA 8270E SIM
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270E SIM
Naphthalene Low Level	EPA 8270E SIM
Phenanthrene Low Level	EPA 8270E SIM
Pyrene Low Level	EPA 8270E SIM

Metals II

Chromium VI	EPA 7196A

Minerals

Chloride	EPA 9251
Sulfate (as SO4)	EPA 9038

Miscellaneous

Cyanide, Total	EPA 9014
	EPA 9012B
Phenols	EPA 9065
Specific Conductance	EPA 9050A
Sulfide (as S)	EPA 9034

Nitroaromatics and Isophorone

2,4-Dinitrotoluene	EPA 8270E

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Nitroaromatics and Isophorone

2,6-Dinitrotoluene	EPA 8270E
Isophorone	EPA 8270E
Nitrobenzene	EPA 8260D
	EPA 8270E
Pyridine	EPA 8270E

Nitrosoamines

N-Nitrosodimethylamine	EPA 8270E
N-Nitrosodi-n-propylamine	EPA 8270E
N-Nitrosodiphenylamine	EPA 8270E

Organophosphate Pesticides

Parathion ethyl	EPA 8270E

Petroleum Hydrocarbons

Diesel Range Organics	EPA 8015D
Gasoline Range Organics	EPA 8015D
Oil and Grease Total Recoverable	EPA 9071B (Solvent:Hexane)

Phthalate Esters

Benzyl butyl phthalate	EPA 8270E
Bis(2-ethylhexyl) phthalate	EPA 8270E
Diethyl phthalate	EPA 8270E
Dimethyl phthalate	EPA 8270E
Di-n-butyl phthalate	EPA 8270E
Di-n-octyl phthalate	EPA 8270E

Polychlorinated Biphenyls

Aroclor 1016 (PCB-1016)	EPA 8082A
Aroclor 1016 (PCB-1016) in Oil	EPA 8082A

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Polychlorinated Biphenyls

Aroclor 1221 (PCB-1221)	EPA 8082A
Aroclor 1221 (PCB-1221) in Oil	EPA 8082A
Aroclor 1232 (PCB-1232)	EPA 8082A
Aroclor 1232 (PCB-1232) in Oil	EPA 8082A
Aroclor 1242 (PCB-1242)	EPA 8082A
Aroclor 1242 (PCB-1242) in Oil	EPA 8082A
Aroclor 1248 (PCB-1248)	EPA 8082A
Aroclor 1248 (PCB-1248) in Oil	EPA 8082A
Aroclor 1254 (PCB-1254)	EPA 8082A
Aroclor 1254 (PCB-1254) in Oil	EPA 8082A
Aroclor 1260 (PCB-1260)	EPA 8082A
Aroclor 1260 (PCB-1260) in Oil	EPA 8082A
Aroclor 1262 (PCB-1262)	EPA 8082A
Aroclor 1262 (PCB-1262) in Oil	EPA 8082A
Aroclor 1268 (PCB-1268)	EPA 8082A
Aroclor 1268 (PCB-1268) in Oil	EPA 8082A

Polynuclear Aromatic Hydrocarbons

Acenaphthene	EPA 8270E
Acenaphthylene	EPA 8270E
Anthracene	EPA 8270E
Benzo(a)anthracene	EPA 8270E
Benzo(a)pyrene	EPA 8270E
Benzo(b)fluoranthene	EPA 8270E
Benzo(g,h,i)perylene	EPA 8270E
Benzo(k)fluoranthene	EPA 8270E
Chrysene	EPA 8270E
Dibenzo(a,h)anthracene	EPA 8270E

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Polynuclear Aromatic Hydrocarbons

Fluoranthene	EPA 8270E
Fluorene	EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 8270E
Naphthalene	EPA 8270E
Phenanthrene	EPA 8270E
Pyrene	EPA 8270E

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270E
2,4,5-Trichlorophenol	EPA 8270E
2,4,6-Trichlorophenol	EPA 8270E
2,4-Dichlorophenol	EPA 8270E
2,4-Dimethylphenol	EPA 8270E
2,4-Dinitrophenol	EPA 8270E
2-Chlorophenol	EPA 8270E
2-Methyl-4,6-dinitrophenol	EPA 8270E
2-Methylphenol	EPA 8270E
2-Nitrophenol	EPA 8270E
3-Methylphenol	EPA 8270E
4-Chloro-3-methylphenol	EPA 8270E
4-Methylphenol	EPA 8270E
4-Nitrophenol	EPA 8270E
Pentachlorophenol	EPA 8270E
Phenol	EPA 8270E

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270E
1,2-Dichlorobenzene, Semi-volatile	EPA 8270E

Serial No.: 72039

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NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2027
Issued April 01, 2026

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. MARCO SOARES
PACE ANALYTICAL SERVICES, LLC - WESTBOROUGH, MA
8 WALKUP DR
WESTBOROUGH, MA 01581-1019

NY Lab Id No: 11148

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2016) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Semi-Volatile Organics

1,3-Dichlorobenzene, Semi-volatile	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270E
2-Methylnaphthalene	EPA 8270E
Acetophenone	EPA 8270E
Benzaldehyde	EPA 8270E
Benzoic Acid	EPA 8270E
Benzyl alcohol	EPA 8270E
Caprolactam	EPA 8270E
Dibenzofuran	EPA 8270E

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260D
1,2,4-Trimethylbenzene	EPA 8260D
1,2-Dichlorobenzene	EPA 8260D
1,3,5-Trimethylbenzene	EPA 8260D
1,3-Dichlorobenzene	EPA 8260D
1,4-Dichlorobenzene	EPA 8260D
2-Chlorotoluene	EPA 8260D
4-Chlorotoluene	EPA 8260D
Benzene	EPA 8260D
Bromobenzene	EPA 8260D
Chlorobenzene	EPA 8260D
Ethyl benzene	EPA 8260D
Isopropylbenzene	EPA 8260D
m/p-Xylenes	EPA 8260D
Naphthalene, Volatile	EPA 8260D
n-Butylbenzene	EPA 8260D
n-Propylbenzene	EPA 8260D

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Volatile Aromatics

o-Xylene	EPA 8260D
p-Isopropyltoluene (P-Cymene)	EPA 8260D
sec-Butylbenzene	EPA 8260D
Styrene	EPA 8260D
tert-Butylbenzene	EPA 8260D
Toluene	EPA 8260D
Total Xylenes	EPA 8260D

Volatile Halocarbons

1,1,1,2-Tetrachloroethane	EPA 8260D
1,1,1-Trichloroethane	EPA 8260D
1,1,2,2-Tetrachloroethane	EPA 8260D
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260D
1,1,2-Trichloroethane	EPA 8260D
1,1-Dichloroethane	EPA 8260D
1,1-Dichloroethene	EPA 8260D
1,1-Dichloropropene	EPA 8260D
1,2,3-Trichloropropane	EPA 8260D
1,2-Dibromo-3-chloropropane	EPA 8260D
1,2-Dibromoethane	EPA 8260D
1,2-Dichloroethane	EPA 8260D
1,2-Dichloropropane	EPA 8260D
1,3-Dichloropropane	EPA 8260D
2,2-Dichloropropane	EPA 8260D
2-Chloroethylvinyl ether	EPA 8260D
3-Chloropropene (Allyl chloride)	EPA 8260D
Bromochloromethane	EPA 8260D
Bromodichloromethane	EPA 8260D

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All approved analytes are listed below:

Volatile Halocarbons

Bromoform	EPA 8260D
Bromomethane	EPA 8260D
Carbon tetrachloride	EPA 8260D
Chloroethane	EPA 8260D
Chloroform	EPA 8260D
Chloromethane	EPA 8260D
cis-1,2-Dichloroethene	EPA 8260D
cis-1,3-Dichloropropene	EPA 8260D
Dibromochloromethane	EPA 8260D
Dibromomethane	EPA 8260D
Dichlorodifluoromethane	EPA 8260D
Hexachlorobutadiene, Volatile	EPA 8260D
Methyl iodide	EPA 8260D
Methylene chloride	EPA 8260D
Tetrachloroethene	EPA 8260D
trans-1,2-Dichloroethene	EPA 8260D
trans-1,3-Dichloropropene	EPA 8260D
trans-1,4-Dichloro-2-butene	EPA 8260D
Trichloroethene	EPA 8260D
Trichlorofluoromethane	EPA 8260D
Vinyl chloride	EPA 8260D

Volatile Organics

1,4-Dioxane	EPA 8260D
	EPA 8270E
2-Butanone (Methylethyl ketone)	EPA 8260D
2-Hexanone	EPA 8260D
2-Nitropropane	EPA 8260D

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All approved analytes are listed below:

Volatile Organics

4-Methyl-2-Pentanone	EPA 8260D
Acetone	EPA 8260D
Carbon Disulfide	EPA 8260D
Cyclohexane	EPA 8260D
Di-ethyl ether	EPA 8260D
Ethyl Acetate	EPA 8260D
Hexane	EPA 8260D
Methyl acetate	EPA 8260D
Methyl cyclohexane	EPA 8260D
Methyl tert-butyl ether	EPA 8260D
n-Butanol	EPA 8260D
tert-butyl alcohol	EPA 8260D
Tetrahydrofuran	EPA 8260D
Vinyl acetate	EPA 8260D

Sample Preparation Methods

EPA 5035A-L
EPA 5035A-H
EPA 3580A
EPA 3540C
EPA 3546
EPA 3060A
EPA 9010C

Serial No.: 72039

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DRAFT

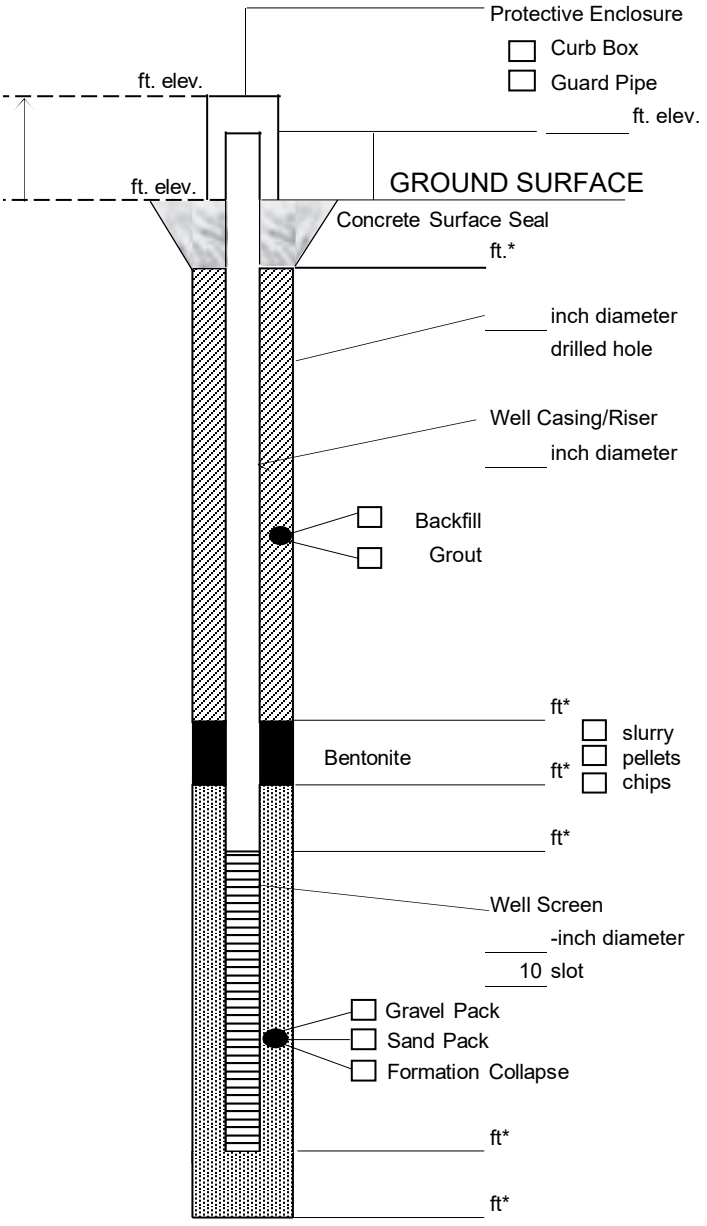
ATTACHMENT D

BLANK MONITORING WELL CONSTRUCTION LOG

C.T. MALE ASSOCIATES

Well No. _____

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Name: Hamilton Hill Revitalization - Anchor Site (C447055)

Project Number: 23.3588

Well No.: _____ Boring No.: _____

Town/City: Schenectady

County: Schenectady State: NY

Installation Date(s): _____

Drilling Contractor: _____

Drilling Method: _____

Water Depth From Top of Riser: _____ ft _____ Date

C.T. Male Observer: _____

Materials Used:

_____ Bags of Sand (_____ lb. bags)
Sand Size: _____ Brand: _____
_____ Bags of Bentonite (_____ lb. bags)
Brand: _____
_____ ft. of _____ well screen
_____ ft. of _____ well riser
_____ Bags of Cement/Concrete (_____ lb. bags)
Brand: _____

Grout Mixture:

_____ Bags of Cement (_____ lb. bags)
_____ Lbs. of Bentonite
_____ Gallons of Water
_____ Grout Batches

Notes:

ATTACHMENT E

BLANK SURFACE SOIL SAMPLING LOG

DRAFT

SURFACE SOIL SAMPLING LOG

PROJECT: Hamilton Hill Revitalization - Anchor Site	**PROJECT #:** 23.3588	**PAGE OF**
CLIENT: Albany State Street Limited Partnership	**NYSDEC #:** C447055	**DATE**
LOCATION: 750 State Street, Schenectady, NY		**COLLECTED:**
INSTRUMENT USED: MiniRAE 3000 **LAMP** 10.6 **eV**		**DATE**
DATE INSTRUMENT CALIBRATED:	**BY:**	**ANALYZED:**
TEMPERATURE OF SOIL: ambient		**ANALYST:**

SAMPLE IDENTIFICATION	DEPTH (in.)***	SAMPLE READING (PPM)**	BACKGROUND READING (PPM)**	REMARKS

*Instrument was calibrated in accordance with manufacturer's recommended procedure using a calibration gas supplied by the manufacturer.

**PPM represents concentration of detectable volatile and gaseous compounds in parts per million of air.

***in. represents inches below vegetative cover.

ATTACHMENT F

BLANK SUBSURFACE EXPLORATION LOG

DRAFT

C.T. MALE ASSOCIATES

SUBSURFACE EXPLORATION LOG **DRAFT**

BORING NO.:
ELEV.: **DATUM:**
START DATE: **FINISH DATE:**
SHEET **of**

PROJECT: Hamilton Hill Revitalization - Anchor Site CTM PROJECT NO.: 23.3588
LOCATION: 750 State Street, Schenectady, NY CTM OBSERVER:

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE NUMBER	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES

DRILLING CONTRACTOR:
DIRECT-PUSH TYPE:
METHOD OF SAMPLING:

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

SAMPLE CLASSIFICATION BY:

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE EVALUATION. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

ATTACHMENT G

BLANK ORGANIC VAPOR HEADSPACE ANALYSIS LOG

DRAFT

ORGANIC VAPOR HEADSPACE ANALYSIS LOG

PROJECT: Hamilton Hill Revitalization - Anchor Site	**PROJECT #:** 23.3588	**PAGE OF**
CLIENT: Albany State Street Limited Partnership	**NYSDEC #:** C447055	**DATE**
LOCATION: 750 State Street, Schenectady, NY		**COLLECTED:**
INSTRUMENT USED: MiniRAE 3000 **LAMP** 10.6 **eV**		**DATE**
DATE INSTRUMENT CALIBRATED:	**BY:**	**ANALYZED:**
TEMPERATURE OF SOIL: ambient		**ANALYST:**

EXPLORATION NUMBER	SAMPLE NUMBER	DEPTH (FT.)***	SAMPLE TYPE	SAMPLE READING (PPM)**	BACKGROUND READING (PPM)**	REMARKS

*Instrument was calibrated in accordance with manufacturer's recommended procedure using a calibration gas supplied by the manufacturer.

**PPM represents concentration of detectable volatile and gaseous compounds in parts per million of air.

***FT represents depth of sample collected feet below ground surface

ATTACHMENT H

BLANK WELL LOW-FLOW PURGING LOG

DRAFT

WELL LOW-FLOW PURGING LOG

Sampling Activity (check all that apply):

☐ Initial / 3 Vol. ☐ Low-Flow ☐ Sample

DATE: _____ PROJECT NAME: HHR Anchor Site

PROJECT NO.: 23.3588 PROJECT LOCATION: Schenectady, NY

SAMPLING PERSONNEL: _____

NOTES TAKEN BY: _____ NOTES CHECKED BY: _____

MONITORING WELL ID#: _____ WELL CASING DIAMETER: _____ in.

DEPTH TO WATER (ft): _____ FROM: TPVC

DEPTH TO BOTTOM (ft): _____ FROM: TPVC

WATER COLUMN HEIGHT: _____ ft

WELL VOLUME: _____ GALLONS

CONVERSION FACTORS LINEAR FEET TO GALLONS

1" = 0.041 GAL/LF 3" = 0.38 GAL/LF

1.25" = 0.064 GAL/LF 4" = 0.66 GAL/LF

2" = 0.16 GAL/LF 6" = 1.47 GAL/LF

Field Parameters	Stabilization	Time (since start of purging)										
Time (minutes)	-	Initial										
Water Level (ft)	± 0.00											
Temperature (C)	± 3%											
DO (mg/L)	±10% or < 0.5											
Conductivity (uS)	± 3%											
pH (SU)	± 0.1											
ORP (mV)	±10 mV											
Turbidity (NTU)	±10% or < 5											

Field Parameters	Time (since start of purging)												
Time (minutes)													
Water Level (ft)													
Temperature (C)													
DO (mg/L)													
Conductivity (uS)													
pH (SU)													
ORP (mV)													
Turbidity (NTU)													

VOLUMES PURGED: _____ GALLONS AVG PURGE RATE: _____

TIME STARTED: _____ TIME FINISHED: _____

OBSERVATIONS: COLOR _____ ODOR _____

SHEEN _____ OTHER _____

WATER LEVEL AT 80% RECOV.: _____ ft WATER RECOVERY HEIGHT: _____ ft

SAMPLE COLLECTION TIME: _____ RECOVERY TIME IN MINUTES: _____

NOTES: _____

EQUIPMENT: PERISTALTIC PUMP NEW DISPOSABLE BAILER STAINLESS STEEL BAILER

BLADDER PUMP SUBMERSIBLE PUMP OTHER

SERIAL NOs: _____

ATTACHMENT I

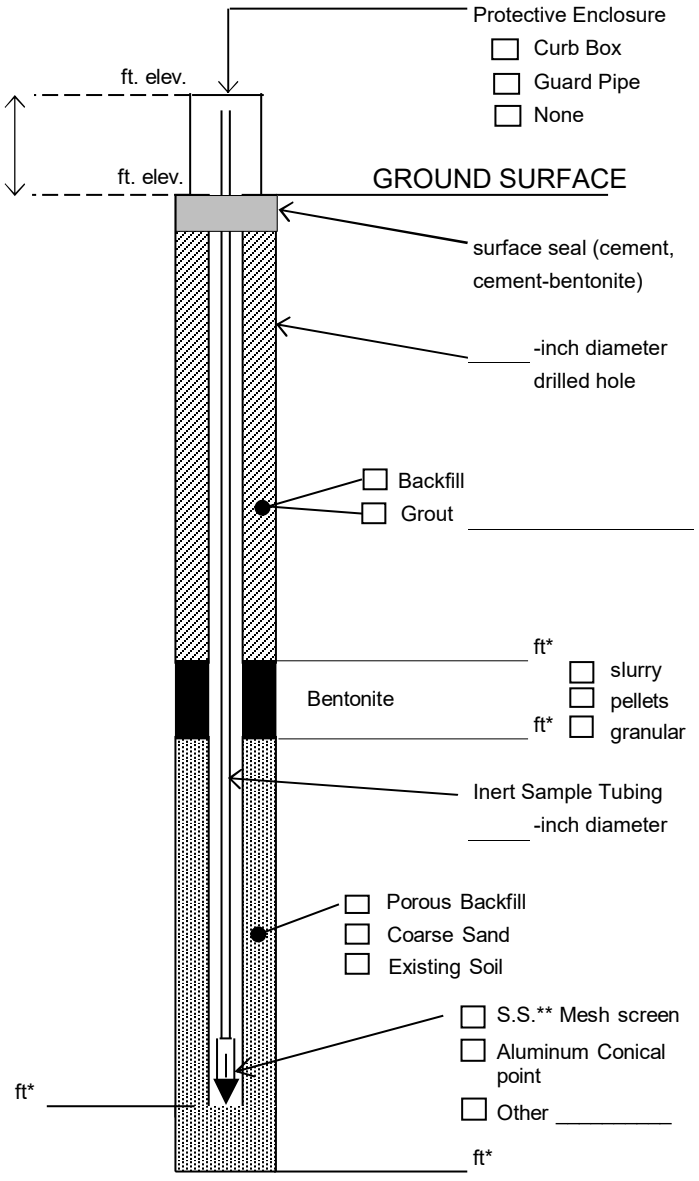
BLANK SOIL VAPOR SAMPLING POINT CONSTRUCTION LOG

DRAFT

C.T. MALE ASSOCIATES

Point No. _____

SOIL VAPOR (SV) SAMPLING POINT CONSTRUCTION LOG



* Depth below land surface
** S.S. denotes Stainless Steel

Project Name: Hamilton Hill Revitalization - Anchor Site

Project Number: 23.3588

Point No.: _____ Boring No.: _____

Town/City: Schenectady

County: Schenectady State: NY

Installation Date(s): _____

Drilling Contractor: _____

Drilling Method: _____

C.T. Male Observer: _____

Materials Used:

_____ Bags of Sand (_____ lb. bags)
Sand Size: _____ Brand: _____
_____ Bags of Bentonite (_____ lb. bags)
Brand: _____
_____ inch _____ vapor point/screen
_____ ft. of _____ sample tubing
_____ Bags of Cement/Concrete (_____ lb. bags)
Brand: _____
_____ Gallons of Grout

Notes:

ATTACHMENT J

BLANK SOIL VAPOR/AIR SAMPLING LOG

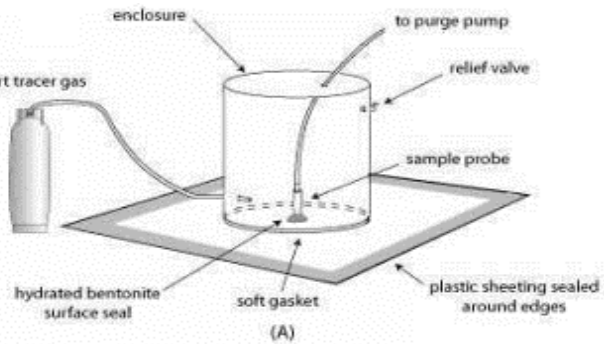
DRAFT

C.T. MALE ASSOCIATES

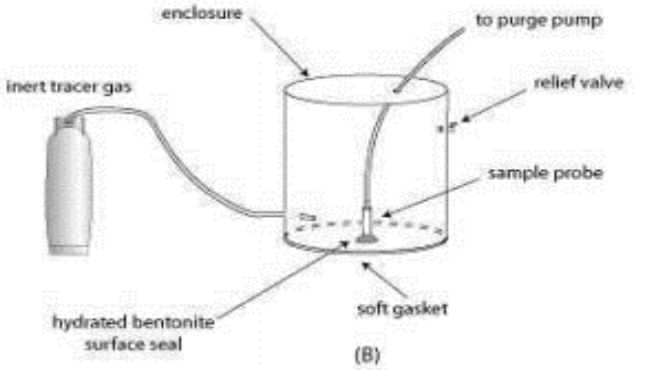
SOIL VAPOR (SV) / AIR SAMPLING LOG

Tracer Gas Application Method*:

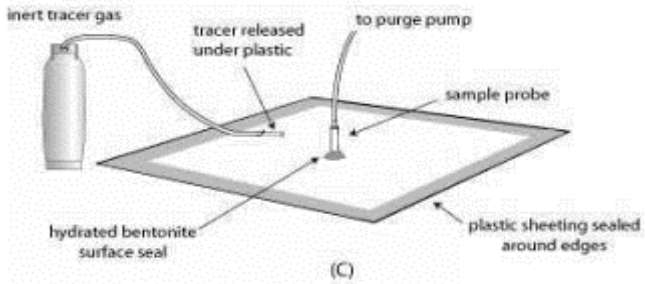
(A)



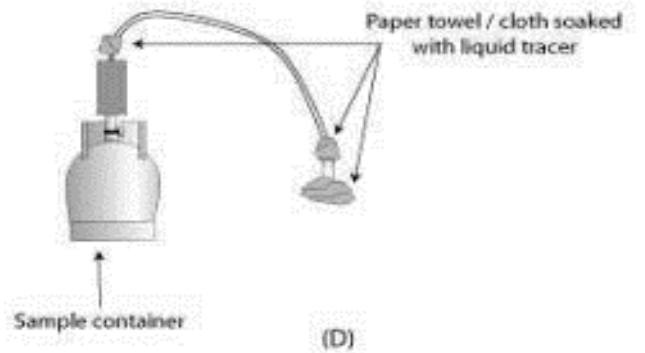
(B)



(C)



(D)



Project Name: Hamilton Hill Revitalization - Anchor Site
Location: 750 State Street, Schenectady, NY
Project No.: 23.3588

Sample Point ID: _____ Date: _____

Sampling Personnel: _____
Notes Taken By: _____

SV Point Activity: ☐ Leak Test ☐ Sample Collection

Circle one of the tracer gas application method used
A B C D NA

Tracer Gas and Seal Information:

Tracer Gas Used: He Supplier: _____
Material Used for Seal Construction: Moist Clay
Instrument to Measure Tracer: _____
Ambient Tracer Concentration: _____
Initial Tracer Concentration Applied to Enclosure: _____
Volume of Water Purged from SV Point: _____
Purge Method (Vapor): 1) _____ Duration: _____
2) _____ _____
Sample Tubing Tracer Concentration: _____
Final Enclosure Tracer Concentration: _____
Leak Test Start Time: _____ Stop Time: _____
Start Pressure: _____ Stop Pressure: _____

Sample Information

Sample Type: ☐ Soil Vapor ☐ Ambient/Outdoor Air
☐ Sub-Slab ☐ Indoor Air

Sample Collection: ☐ Grab ☐ Regulator Flow _____
Container Type: _____ Size: _____
Container ID: _____ Regulator ID: _____
Certification Batch #: _____ Certification Date: _____

Start Date: _____ Time: _____ Initial Pressure: _____
Stop Date: _____ Time: _____ Final Pressure: _____
Notes:

* = New York State Dept. of Health. Guidance For Evaluating Soil Vapor Intrusion in the State of New York. October 2006. Figure 2.4.

APPENDIX D

HEALTH AND SAFETY PLAN

April 2026
Revised June 2026

Site Specific Health & Safety Plan

Hamilton Hill Revitalization - Anchor Site
750 State Street
City of Schenectady
Schenectady County, New York
NYSDEC Site #C447055

DRAFT

Prepared by:

C.T. MALE ASSOCIATES
50 Century Hill Drive
Latham, New York 12110
(518) 786-7400

C.T. Male Associates Project No: 23.3588

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C.T. MALE ASSOCIATES ENGINEERING, SURVEYING, ARCHITECTURE, LANDSCAPE ARCHITECTURE & GEOLOGY, D.P.C.

SITE SPECIFIC HEALTH & SAFETY PLAN
HAMILTON HILL REVITALIZATION - ANCHOR SITE
750 STATE STREET
CITY OF SCHENECTADY, SCHENECTADY COUNTY

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SITE SPECIFIC HEALTH & SAFETY PLAN
HAMILTON HILL REVITALIZATION - ANCHOR SITE
750 STATE STREET
CITY OF SCHENECTADY, SCHENECTADY COUNTY

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Table 1	C.T. Male Action Levels & Required Respiratory Protection
Table 2	Potential Hazards and Controls

FIGURES

Figure 1:	Site Location Map
Figure 2:	Map Showing Route to Hospital

ATTACHMENTS

Attachment A:	NYSDOH Generic Community Action Monitoring Plan and Fugitive Dust and Particulate Monitoring

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1.0 GENERAL

1.1 Overview

This Site-Specific Health and Safety Plan (HASP) has been prepared for use during implementation of Interim Remedial Measures (IRMs) and a Remedial Investigation (RI) at the Hamilton Hill Revitalization - Anchor Site (NYSDEC Site #C447055), located at 750 State Street in the City of Schenectady, Schenectady County, New York (the "Site").

This HASP is written to follow the regulatory requirements and guidelines in the following:

- 29 CFR 1910, OSHA, Safety and Health Regulations for General Industry.
- C.T. Male Associates Health and Safety Manual.

A designated Office Health and Safety Officer (OHSO) will be responsible for implementing C.T. Male's health and safety policies and to ensure field work follows C.T. Male's policies. A designated Site Health and Safety Officer (SHSO) will be responsible for implementing this HASP during the completion of the RI field work. All persons or parties who enter the work area (support zone, decontamination zone or exclusion zone) must review, sign, and comply with this HASP. A partial list of individuals authorized to enter the exclusion zone at the Site is presented in Section 13.0 of this HASP. Others may be added to the list as needed. A copy of this HASP will be maintained at the Site throughout the duration of the project. Complete descriptions of the IRM and RI work tasks are presented in the IRM Work Plan and the RI Work Plan. A brief description of the proposed scope of work is outlined below:

1.1.1 IRM

- Closure by removal of a partially uncovered underground storage tank (UST), with excavation and off-site disposal of petroleum-impacted soils encountered during tank removal activities. Confirmation closure sampling will be completed.

- Removal of a concrete aboveground storage tank (AST) currently located on-site that contains residual product.

DRAFT

- Removal of a storage bin partially filled with used oil filters.
- Targeted investigations to address remaining site infrastructure uncertainties including stormwater-related migration pathways and two (2) suspect USTs.

1.1.2 Remedial Investigation:

- Collection of surface soil samples for classification and submission for laboratory analyses.
- Oversee work being completed by a subcontractor including drilling of soil borings, installation of groundwater monitoring wells, and soil gas sampling points.
- Collection of subsurface soil samples from the soil borings for classification and submission for laboratory analyses.
- Development of newly installed monitoring wells.
- Groundwater purging and sampling for laboratory analyses from newly installed monitoring wells.
- Collection of soil gas and outdoor ambient air samples for laboratory analyses.
- Collection of field quality control samples of soil, groundwater, and soil gas for laboratory analysis.
- Collection of water levels.
- Sampling of investigative derived waste for disposal.
- Surveying of sampling and monitoring well locations including elevation survey.
- Other unforeseen environmental conditions which may be encountered during the RI work.

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1.2 Contact Names & Numbers

For this project, the following project contacts have been assigned:

SITE CONTACT:

Jesse Batus	Albany State Street Limited Partnership	646.375.4754 (O) 516.426.6784 (C)

CONSULTANT CONTACTS:

CONSULTING ENGINEER:	C.T. Male Associates 50 Century Hill Drive Latham, New York 12110	518.786.7400 (O)
	Daniel P. Reilly, P.E., Project Principal	518.786.7625 (O) 518.928.9792 (C)
	Aimee Smith, Project Manager	518.786.7551 (O) 518.223.2413 (C)
	Nancy Garry, P.E., CSP Office Health & Safety Officer	518.786.7541 (O) 518.320.5783 (C)
	Jonathon Dippert, P.G. Field Services Manager	518.786.7563 (O) 518.469.1183 (C)
	Pending: To be determined, based on field staff on-site Site Health & Safety Officer (SHSO)	

IN CASE OF EMERGENCY DIAL 911

EMERGENCY PHONE NUMBERS:

PERSONAL INJURY	Emergency	911
OR EMERGENCY:	Ellis Hospital 1101 Nott Street Schenectady, New York 12308 (approx. 10 minutes)	518.243.4000

FIGURE 2 – MAP SHOWING ROUTE TO HOSPITAL

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FIRE DEPARTMENT:	Emergency Schenectady Fire Station #1 360 Veeder Avenue Schenectady, New York 12305	911 518.382.5141
CITY POLICE:	Emergency Schenectady Police Department 531 Liberty Street Schenectady, New York 12305	911 518.382.5200
NYS POLICE:	Emergency NYS Troop G Headquarters 760 Troy Schenectady Road Latham, New York 12110	911 518.783.3211
NEW YORK CITY REGIONAL POISON CONTROL CENTER:	Upstate Medical University The Upstate New York Poison Center 750 East Adams Street Syracuse, New York 13210	800.222.1222
NATIONAL RESPONSE CENTER:	c/o United States Coast Guard (G-OPF) 2100 2nd Street, Southwest - Room 2611 Washington, DC 20593-0001	800.424.8802
NYSDEC SPILL HOTLINE:	24-hours	800.457.7362

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2.0 HEALTH AND SAFETY PERSONNEL

The OHSO will be responsible for implementing C.T. Male health and safety policies and to ensure field work follows C.T. Male policies.

The SHSO or designee will be responsible for implementation of the HASP and the delegation of health and safety duties. The SHSO will coordinate the resolution of safety issues that arise during site work or ask the OSHO, and/or the Field Services Manager and Project Manager for direction and compliance of the situation. When the SHSO is not present on-Site, a designee will be authorized to perform the duties of the SHSO, and the designee will be responsible for implementation of the HASP.

The SHSO or designee has authority to stop work upon their determination of an imminent safety hazard, emergency situation or other potentially dangerous situations (e.g., weather conditions). Authorization to resume work will be issued by the OHSO, Project Manager or the SHSO (see Section 11 of the HASP).

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3.0 SITE LOCATION AND DESCRIPTION

The Hamilton Hill Revitalization - Anchor Site is located at 750 State Street in the City of Schenectady, Schenectady County, New York. The 2.464± acre Site is located in an urban area and is identified with tax map number section 49.25, block 1, lot 21.11. See Figure 1: Site Location Map of this HASP.

Phase I Environmental Site Assessments (ESAs) were conducted on the subject property by C.T. Male which identified past use of the subject property for multiple commercial and manufacturing purposes dominated by automotive-related activities, including auto sales, service, repair, vehicle storage and associated parking. Additional historic commercial and light industrial uses across the Site included lacquer spraying operations, awning manufacturing, plumbing and heating services, a coal distribution company, paint retail and heating service facilities, with most buildings demolished by 2011.

The Site has a petroleum bulk storage (PBS) registration under the name of Mohawk Honda which is noted as an unregulated/closed facility. Six (6) ASTs and one (1) UST are listed as closed-removed, and one (1) AST is listed as out of service and remains with the Site.

The site is currently vacant urban land and was most recently occupied by the Mohawk Auto Center (car dealership and service/office) until 2022. A former auto sales and service building used by Mohawk Auto Center on eastern portion of the property was demolished in 2024.

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4.0 POTENTIAL SITE CONTAMINANTS

The potential Site contaminants, based on previous assessments, consist of the following:

- Volatile organic compounds (VOCs) [n-Propylbenzene, 1,2,4 trimethylbenzene, benzene, toluene, and xylene] in subsurface soil and groundwater;
- Semi-volatile organic compounds (SVOCs)[polycyclic aromatic hydrocarbons (PAHs) – benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene and others] in subsurface soil and groundwater; and
- Metals [lead, mercury, zinc and others] in subsurface soil and groundwater at the Site.

The following table summarizes the contaminants by category and impacted media.

CONTAMINANT CATEGORY	SOIL	GROUNDWATER
Petroleum Related VOCs and SVOCs	X	X
Chlorinated Solvents		
Other VOCs		
Other SVOCs		
Metals	X	X
Pesticides	No Data	No Data
PCBs	No Data	No Data
PFAS	No Data	No Data
1,4-dioxane	No Data	No Data

4.1 Potential Exposure Pathways

Occupational exposure to potentially hazardous substances/chemicals associated with the work activities could potentially occur by dermal contact (skin contact), inhalation and indirect route (incidental ingestion). A brief summary of exposure pathways is listed below. Further description of activities and hazards are outlined in Section 5.0 of the HASP. It should be noted that soil gas or vapor samples have not been collected on Site and is therefore an unknown occupational exposure. As noted in section 4.1.2 of the HASP, Site monitoring for VOCs will be conducted.

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4.1.1 Dermal Contact

The primary route of potential exposure for C.T. Male employees is dermal contact. Personnel walking or handling associated equipment and samples (soil and groundwater) may be exposed to potentially hazardous substances/chemicals by skin contact or adsorption. However, exposure is expected to be limited since workers are required to wear appropriate personal protective equipment (PPE) (i.e., appropriate work gloves, shoes, clothing, and safety glasses, etc.).

4.1.2 Inhalation

Constituents that potentially pose an occupational exposure to employees by the inhalation route may be VOCs. If a potential inhalation hazard is noted through monitoring activities on-Site, C.T. Male staff will immediately stop work and take the appropriate steps to notify the SHSO, OHSO, Project Manager or Field Services Manager. Section 5.6 of the HASP outlines air monitoring activities on Site, and the IRM and RI Work Plans also address soil gas sampling activities. The work being conducted will be reevaluated to determine the potential exposure and further PPE that may be required.

4.1.3 Ingestion

Personnel handling of associated equipment and samples, and during project scope of work activities, could be exposed by incidental ingestion. Typically, this exposure occurs if proper PPE is not used, or personal hygiene is not practiced. Personal protection against exposure via ingestion is accomplished by performance of proper decontamination procedures when exiting contaminated work areas as well as using the correct PPE.

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5.0 HAZARD ASSESSMENT

5.1 General

The hazard assessment, use of specific protective equipment, and monitoring associated with each field work task of the IRM and RI to be conducted at the Site are presented in following subsections.

For this project, C.T. Male will be subcontracting portions of the IRM and RI activities. Each subcontractor will be responsible for developing and implementing a Site-specific HASP for their activities, for protection of their employees, and use of personal protective equipment. The subcontractors' HASPs shall be submitted to C.T. Male prior to the initiation of field work. In addition, if there are training or professional certificates required for the project as per the Occupational Safety and Health Administration (OSHA) or other applicable regulations, the subcontractor(s) shall provide copies of certificates to C.T. Male before work begins. The subcontractor will also be responsible for developing and following their own Respiratory Protection Program, as applicable.

5.2 Media Sampling

5.2.1 Soil, Fill, Groundwater Sampling and Water Levels

Soil, fill, and groundwater sampling including monitoring well development, and collection of groundwater levels are planned for the investigation. The potential hazards to personnel during this work are dermal contact, inhalation and ingestion. Level D protection (inclusive of appropriate PPE) should be sufficient to protect against dermal contact and ingestion during handling of soil, fill and groundwater. If organic vapors are present at the action levels presented in Section 5.6 of the HASP, on the basis of organic vapor monitoring of the work area, it may be necessary to upgrade to Level C respiratory protection to eliminate potential inhalation of organic vapors during collection of soil gas and groundwater sampling. C.T. Male staff shall have with them their assigned respirators and Organic Vapor (OV) cartridges or combination particulate cartridges with organic vapor (P100/OV) cartridges.

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5.2.2 Soil Gas and Outdoor Ambient Air Sampling

Soil gas and outdoor ambient air quality sampling are planned for the Site as part of a soil gas assessment. The potential hazards to personnel during this work are inhalation hazards and to a lesser degree dermal contact. Level D protection should be sufficient to protect against dermal contact during installation and removal of the soil gas and outdoor air sampling points. If organic vapors are present at the action levels described in Section 5.6 of the HASP, based on organic vapor monitoring of the area during the work, it may be necessary to upgrade to Level C respiratory protection. C.T. Male staff shall have with them their assigned respirators and OV cartridges or P100/OV cartridges.

5.3 Subsurface Work

Subsurface work as part of the IRM activities include the following:

- Closure by removal of a partially uncovered UST, with excavation and off-site disposal of petroleum-impacted soils encountered during tank removal activities. Confirmation closure sampling will be completed.

- Targeted investigations to address remaining site infrastructure uncertainties including stormwater-related migration pathways and two (2) suspect USTs.

C.T. Male staff will observe excavation and other subsurface activities and conduct post excavation sampling for the UST(s).

Subsurface investigation activities, as part of the RI, include the advancement of soil borings, and the installation of monitoring wells & soil gas points. Drilling, monitoring well installation and other associated field work to be performed by subcontractors to C.T. Male will be observed by full-time, on-Site, C.T. Male staff. C.T. Male staff will be responsible for collecting soil/fill samples, classifying soil, field screening of soil/fill samples, recording of drilling and sampling data, recording of groundwater data, deciding on the final drilling depths and monitoring well screen intervals (with input from the project manager), recording the monitoring well construction procedures, and monitoring the decontamination procedures.

Drilling with monitoring well installation is planned for the Site. The potential hazards to personnel during this work are dermal contact, ingestion and inhalation.

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Level D protection (inclusive of appropriate PPE) should be sufficient to protect against dermal contact and ingestion during drilling of and/or handling of the subsurface soil, fill and groundwater. If organic vapors are present at the action levels presented in Section 5.6 of the HASP, on the basis of organic vapor monitoring of the work area, it may be necessary to upgrade to Level C respiratory protection to eliminate potential inhalation of organic vapors during collection of soil gas samples. C.T. Male staff shall have with them their assigned respirators and OV cartridges or P100/OV cartridges.

5.4 Investigative Derived Waste, Storage, Sampling, Treatment and Disposal

Investigative derived waste will be containerized in appropriately sized compatible containers for the waste, for subsequent characterization and profiling for disposal or treatment at a facility permitted to accept the waste. Impacted groundwater and/or non-aqueous phase liquid (NAPL) and other liquids may be encountered/generated. These materials will be contained and transferred to on-site frac tanks, drums or otherwise containerized and will be appropriately labeled utilizing NYS Department of Transportation (DOT) approved labels with the contents, generator information, address, and date(s) of generation included on the label. Drums and containers will be staged on pallets after field work is completed.

The potential hazards to personnel during this work are dermal contact and inhalation. Level D protection should be sufficient to protect against dermal contact during collection of waste into the appropriate containers, sampling, and storage activities (securing tarps, lids for drums, etc.). If organic vapors are present at the action levels described in Section 5.6 of the HASP, based on organic vapor monitoring of the area during the work, it may be necessary to upgrade to Level C respiratory protection.

5.5 Surveying

Surveying of sampling and monitoring well locations including elevation survey is part of the RI scope of work. Occupational exposure to chemical hazards associated with the typical survey work activities could potentially occur by dermal contact and incidental ingestion. Personnel on site will need to be in Level D (reflective safety vest, safety glasses, hard hat-if needed, safety shoes, protective clothing, and hearing protection-if needed), at a minimum, while on Site grounds. The potential hazards to

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personnel during this work are dermal contact. Level D protection should be sufficient to protect against dermal contact and incidental ingestion during survey activities.

5.6 Air Monitoring

During ground intrusive activities (Section 5.3 of the HASP) and activities outlined in Section 5.2 of the HASP, the ambient air in the work area will be monitored with a photoionization detection (PID) meter (total volatile compounds – MiniRAE 3000) prior to the start of work and periodically as conditions warrant.

If a concentration of 10 parts per million (ppm) (sustained for 5 minutes) of total volatile compounds are detected within the work area on the instrument, relative to an isobutylene standard (used to calibrate the instrument), work will cease immediately, and the workers shall shut down equipment & leave the area immediately. The level of PPE protection will be evaluated prior to continuing work. If a PPE upgrade to Level C is required, it will include: a half face air purifying respirator equipped with OV cartridges or P100/OV cartridges for 10-15 ppm exposure levels. If a full-face air purifying respirator is needed or the ambient VOC concentrations are greater than 15 ppm, work will cease immediately, and the situation will be evaluated prior to continuation of work. Table 1 of this HASP summarizes the action levels relative to the required respiratory protection.

Table 1
C.T. Male Action Levels & Required Respiratory Protection

Action Level	Level of PPE	Type of Respiratory Protection
0-10 ppm	Level D	No respiratory protection
10-15 ppm	Level C	Half-face air purifying respirator
15-50 ppm	Level C	Evaluate work procedures
Greater than 50 ppm	Cease Work	Evaluate work procedures

- Facial hair is not permitted while wearing most respirators.
- Workers required to wear a respirator must have a minimum of OSHA 40 Hour training with current medical monitoring and fit test documentation. Workers must be fit-tested with the type of respirator required.

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5.7 Community Air Monitoring Plan

A Community Air Monitoring Plan (CAMP) including fugitive dust and particulate monitoring will be followed for the project based on the New York State Department of Health Generic Community Air Monitoring Plan and Fugitive Dust and Particulate Monitoring guidance dated May 2010, both of which are included as Attachment A of this HASP. The CAMP will be followed during ground intrusive remedial activities (i.e., soil borings, well installation, soil gas point installation, and other subsurface investigation activities having the potential to disturb soils). The intent of the CAMP is to provide a measure of protection for on-site workers not directly involved with the on-site activities and the downwind community (i.e., off-Site receptors including residences and businesses) from potential airborne contaminant releases as a direct result of the IRM or RI activities. The CAMP is not intended for use in establishing action levels for worker respiratory protection. The CAMP will monitor the air for dust (particulate air monitoring, see Section 5.7.1 of the HASP) and volatile organic compound vapors (VOC air monitoring, see Section 5.7.2 of the HASP) at the upwind and the downwind perimeter of the work area. The action levels specified herein require increased monitoring, corrective actions to abate emissions, and/or work shutdown.

Dust suppression techniques that may be employed if large amounts of dust are created/encountered include applying water to access roads, wetting equipment and excavation faces, spraying water on buckets during excavation and dumping, hauling materials in properly tarped or watertight containers, restricting vehicle/equipment speeds to 10 miles per hour, covering excavated areas and material after excavation activity ceases, and reducing the excavation size and/or number of excavations.

5.7.1 Particulate Air Monitoring

Three (3) real-time particulate monitors will continuously monitor concentrations of particulate matter less than 10 micrometers in size (PM-10) and capable of integrating over a period of 15 minutes (or less) will be utilized. The instruments will be placed inside environmental enclosures at temporary monitoring stations based on the prevailing wind direction each workday, one (1) upwind and one (1) downwind of the designated work areas. The third monitor will be placed at the primary entrance to the adjoining office building to the north.

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Each particulate monitor will be equipped with a telemetry unit capable of transmitting real-time particulate data to the field representative. The particulate monitoring instruments will be capable of displaying and transmitting the short-term exposure limit (STEL) or 15-minute averaging period, which will be compared to the NYSDOH Generic CAMP action levels for particulates, as listed below. The instruments are programmed to alarm at preset action levels. At the end of each day, the readings for each instrument will be downloaded to a computer for electronic storage and retained for future reference and reporting (the downloaded readings data will be a part of the daily CAMP submittal to NYSDEC and NYSDOH).

- 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 the 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, the 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.

In the event of poor weather such as heavy rain, particulate monitoring will not be performed for protection of instrumentation. These weather conditions would limit the effectiveness of the sensitive monitoring equipment and likely suppress particulate generation. Work activities will be halted if fugitive dust migration is visually observed for a sustained period of time during poor weather conditions.

5.7.2 Volatile Organic Compound Air Monitoring

C.T. Male will continuously monitor for VOCs at the upwind and downwind perimeter of the immediate work areas with a MiniRAE 3000 VOC monitor or equal, using a 10.6 eV lamp. The VOC monitors will be placed in the environmental enclosure containing the particulate monitor. The VOC monitors will be equipped

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with a telemetry unit capable of transmitting real-time VOC data to the field representative. The VOC monitoring instrument will be capable of displaying and transmitting the STEL or 15-minute averaging period, which will be compared to the NYSDOH Generic CAMP action levels for VOCs, as listed in the bulleted list below. The VOC STEL readings will be downloaded to a computer for electronic storage and retained for future reference and reporting (the downloaded readings data will be a part of the daily CAMP submittal to NYSDEC and NYSDOH).

- If the ambient air concentration of total organic vapors at the downwind perimeter of the work area or exclusion zone exceeds the upwind concentration by 5 ppm 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. Work activities will then be evaluated to determine the source of the organic vapors and the engineering controls required to reduce/eliminate the organic vapors.
- Particulate monitoring will occur regardless of the upwind/downwind data. If an exceedance is encountered for dust/VOCs at the CAMP location dedicated to monitor the off-site building, then a response to those exceedances will be necessary, consistent with the descriptions above.

In the event of poor weather such as heavy rain, VOC monitoring will not be performed for protection of instrumentation. These weather conditions would limit the effectiveness of the sensitive monitoring equipment and likely suppress VOC

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migration. Work activities will be halted if fugitive dust migration is visually observed for a sustained period of time during poor weather conditions.

5.7.3 Particulate and VOC Monitoring Near Adjacent Building

One real-time particulate monitor paired with a MiniRAE 3000 VOC monitor, or equal, using a 10.6 eV lamp, will continuously monitor concentrations of particulate matter less than PM-10 and for VOCs near the adjacent building to the northwest of the Site. The instruments will be placed inside an environmental enclosure positioned at the northwestern perimeter of the Site, near the main entrance of the adjacent building. The monitors will be capable of integrating readings over a period of 15 minutes (or less) and equipped with telemetry capable of transmitting real-time particulate and VOC data to the field representative.

For particulate monitoring:

- If the adjacent building monitor 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 the adjacent building monitor 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, the adjacent building monitor 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 adjacent building monitor PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.
- Particulate monitoring will occur regardless of the upwind/downwind data. If an exceedance is encountered for dust at the CAMP location dedicated to monitoring the adjacent building, then a response to those exceedances will be necessary, consistent with the descriptions above.

For VOC monitoring:

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- If the ambient air concentration of total organic vapors at the adjacent building monitor exceeds the upwind concentration by 5 ppm 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 adjacent building monitor 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 is below 5 ppm over background for the 15-minute average.
- If the organic vapor level is above 25 ppm at the adjacent building monitor, activities must be shutdown. Work activities will then be evaluated to determine the source of the organic vapors and the engineering controls required to reduce/eliminate the organic vapors.
- VOC monitoring will occur regardless of the upwind/downwind data. If an exceedance is encountered for VOCs at the CAMP location dedicated to monitoring the adjacent building, then a response to those exceedances will be necessary, consistent with the descriptions above.

In the event of poor weather such as heavy rain, particulate monitoring and VOC monitoring will not be performed for protection of instrumentation. These weather conditions would limit the effectiveness of the sensitive monitoring equipment and likely suppress particulate and VOC migration. Work activities will be halted if fugitive dust migration is visually observed for a sustained period of time during poor weather conditions.

5.8 Hazard Identification and Control

The hazard assessment, use of specific protective equipment, and monitoring associated with each field work task of the RI to be conducted at the Site are presented in following subsections.

As per C.T. Male health and safety programs, personnel on Site will need to be in Level D (Hi-Vis reflective safety vest, safety glasses, hard hat, safety shoes, protective

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clothing, and hearing protection-if needed), at a minimum, while in work areas. The potential hazards to personnel during this work are dermal contact, ingestion and inhalation. Level D protection should be sufficient to protect against dermal contact during survey activities.

If a level of safety is required above Level D (e.g., Level C), the Project Manager or Field Services Manager will need to approve the work commencing. Additionally, the NYSDEC and NYSDOH will need to approve the work prior to commencement. If a level of safety is determined to be at Level A or B, C.T. Male will stop work and re-assess the situation.

Roadway Work

Work on the shoulder of the roadways and high traffic areas (i.e., parking lots), may subject personnel to vehicular traffic. When feasible, work will be conducted behind barriers such as work vehicles, cones, or signs and field personnel will wear Class 2 reflective vests. The type of vest may change based upon day or night conditions and traffic speeds.

Biological Hazards

During the Site walk through for the project task, the area will be screened for biological hazards. The most common hazards anticipated are discussed below.

Insects

May encounter, but not limited to, bees, wasps, yellow jackets, spiders, snakes, ticks and mosquitoes, etc. may be a potential hazard on this project, especially so for those individuals sensitized to those bites or stings. Protection methods against insects may be employed, such as the use of protective clothing or insect repellents and training in recognition and identification of harmful insects.

Poisonous Plants

Personnel need to be aware of poisonous plants in the environment. These plants include, but not limited to, poison ivy, poison oak, and poison sumac which are identified by three leaves or five leaves emanating from a stem. The plants contain a resin that causes a delayed reaction on contact. Signs and symptoms are usually

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evident within 24 to 48 hours after exposure. These include burning, stinging, and blisters. Notify the SHSO if these plants are observed. If exposure or contact occurs, wash the affected area, but do not spread the resin to unexposed areas.

Improperly Disposed Sharps

Personnel need to be aware of the potential presence of improperly disposed sharps. These include, but not limited to, discarded needles, razors, broken glass or ceramic, metal scrap pieces, and construction debris (e.g., protruding nails, screws or rebar).

Safely handling discarded needles requires strict attention and proper containment.

Contaminated sharps (needles or broken glass) shall be picked up with a dustpan and broom or with tongs. Large pieces of metal scraps should not be moved by hand. Personnel should not touch contaminated sharps with their hands and must be wearing puncture rated gloves.

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If you encounter a needle / broken glass at a site, follow these procedures to minimize the risk of a needlestick or broken glass injury:

- **No Hand Contact**: Never use bare hands to pick up broken glass. Use mechanical tools like a **brush and dustpan, tongs, or forceps**.
- **Protective Gear**: Wear sturdy, puncture-resistant gloves (heavy leather or cut-resistant with a high puncture rating – ANSI Level 5) and safety glasses.
- **Secure the Area**: Cordon off the area to keep others away until cleanup is finished.

Disposal Containers:

  - **Needles**: Must always go in an FDA-cleared sharps container or a heavy-duty plastic bottle (such as a laundry detergent bottle).
  - **Non-Contaminated Glass**: Can be placed in a sturdy cardboard box with a plastic liner.

- Sharps can be disposed of in regular garbage if placed in a puncture proof container. If large amounts of needles are found, cordon off the area, but do not remove the materials. These may be considered medical waste.

Labeling: Boxes for glass should be clearly marked "Caution: Broken Glass" or "Glass Disposal" so staff are aware of the hazard.

- **Cleaning Tiny Shards**: Unlike needles, glass leaves behind microscopic fragments. Use damp paper towels, a piece of rolled-up tape, or a vacuum with a nozzle attachment to capture these final slivers (as needed).
- **Contamination Rule**: If the glass is contaminated with blood or hazardous chemicals, it must be treated like a needle and placed in a puncture-proof sharps container.

Safe Disposal Supplies

- **Broken Glass Disposal Boxes**: Corrugated cardboard boxes with a 2-mil plastic liner for safe glass collection or similar.

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- **Dustpan and Broom Set (e.g., RubberMaid)**: Standard mechanical tools for safe sweeping without hand exposure.

Potential Hazards and Control

The following table presents generalized hazards potentially involved with the tasks to be completed on this project. Table 2 of the HASP identifies general procedures to follow to prevent or reduce accident, injury or illness. Any worker on-site who identifies a potential hazard must report the condition to the SHSO or designee, and initiate control of the hazardous condition.

Table 2
Potential Hazards and Control

Potential Hazard	Control
Vehicular Traffic	1. Wear Hi-Vis, Class 2 safety vest when vehicular hazards exist. 2. Use cones, flags, barricades, and caution tape to define work area. 3. Use vehicle to block work area. 4. Use vehicle caution lights in high traffic areas within the Site. 5. Contact local police for high traffic situations on public roadways.
Slip, Trip, and Fall Protection	1. Assess work area to determine if there is a potential for falling, tripping, or slippery surfaces (water, mud, or condensation). Additional PPE can be utilized to reduce slip, trip, fall hazards. 2. Make sure work area is neat and tools are staged in one general area. 3. Wear steel or composite toe boots with adequate tread and always watch where the individual is walking. Carry flashlight when walking in poorly lit areas. 4. When walking over work area, be aware of changes in terrain and depressions that may cause a slip, fall or trip. Also be aware of steep slopes and do not go directly down a steep slope, proceed in a zig zag pattern.
Inclement Weather	1. Stop outdoor work during electrical and thunderstorms, high winds, blizzard conditions and other extreme weather conditions such as extreme heat or cold temperatures. 2. If there is lighting or thunder, staff need to stop work for 30 minutes since last occurrence and take cover in a safe location (not in a field or under a tree).

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Table 2 Potential Hazards and Control	
Potential Hazard	**Control**
	3. Take cover indoors or in vehicle. 4. Listen to local forecasts for warnings about specific weather hazards such as tornadoes, hurricanes, and flash floods. 5. Review CT Male inclement weather safety program.
Utility Lines Contact	1. Subcontractor to contact UDigNY or New York 811 to have utility lines marked prior to any underground excavation, trenching or drilling. They must be contacted at least 72 hours prior to work. 2. C.T. Male staff to complete the subsurface exploration checklist prior to the subsurface investigations starting. Follow C.T. Male subsurface exploration program. 3. Conduct on-site utility mark out by a subcontractor, if needed. 4. Refer to Site drawings for utility locations, if available.
Noise	1. Wear hearing protection when exposed to noise levels above 85 decibels, which includes equipment such as a drill rig, excavator, jackhammer, boat motor, woodchipper, chainsaw, or other heavy equipment is operating on-site. 2. Wear hearing protection whenever you need to raise your voice above normal conversational speech due to a loud noise source as this much noise indicates the need for protection. 3. Hearing protection is required when measured sound exceeds 85 decibels (dB) where employees stand or conduct work. 4. Review C.T. Male hearing conservation program.
Electrical Shock	1. Maintain appropriate distance between heavy equipment and overhead utilities; 20-foot minimum clearance from power lines; and 10-foot minimum clearance from shielded power lines. 2. Contact local underground utility locating service prior to penetrating the ground surface.
Sharps Encountered (e.g., needles, glass)	1. **No Hand Contact**: Never use bare hands to pick up broken glass. Use mechanical tools like a brush and dustpan, tongs, or forceps.

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Table 2 Potential Hazards and Control	
Potential Hazard	**Control**
	2. Protective Gear: Wear sturdy, puncture-resistant gloves (heavy leather or cut-resistant with a high puncture rating – ANSI Level 5) and safety glasses. 3. Secure the Area: Cordon off the area to keep others away until cleanup is finished. 4. Needles: Must always go in an FDA-cleared sharps container or a heavy-duty plastic bottle (such as a laundry detergent bottle). 5. Non-Contaminated Glass: Can be placed in a sturdy cardboard box with a plastic liner. 6. Sharps can be disposed of in regular garbage if placed in a puncture proof container. If large amounts of needles are found, cordon off the area, but do not remove the materials. These may be considered medical waste. 7. Labeling: Boxes for glass should be clearly marked "Caution: Broken Glass" or "Glass Disposal" so staff are aware of the hazard. 8. Cleaning Tiny Shards: Unlike needles, glass leaves behind microscopic fragments. Use damp paper towels, a piece of rolled-up tape, or a vacuum with a nozzle attachment to capture these final slivers (as needed). 9. Contamination Rule: If the glass is contaminated with blood or hazardous chemicals, it must be treated like a needle and placed in a puncture-proof sharps container.
Hand and Power Tools	1. Ensure cords to tools are not frayed and are properly grounded. 2. Ensure guards for power tools are in place (such as portable circular saw) as recommended by the manufacturer. 3. Tool cutting edges are kept in proper condition so the tool will operate properly. 4. Worn or bent tools are not to be used. Tool handles must be secure. 5. When not in use, tools are stored in a dry, secure location. 6. Ensure proper PPE use with hand and power tools. Cut or puncture resistant gloves, or work gloves to provide protection may be used. Check with OSHO or FSM prior to use of the power tools.

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Table 2 Potential Hazards and Control	
Potential Hazard	**Control**
	7. If a generator is used with the power tools, ensure there is proper ventilation for the generator.
Physical Injury	1. Wear safety glasses, reflective Hi-vis safety vest and/or shirt always when on-site. Personnel to have hearing protection on them and in use when it is required. 2. Maintain visual contact with any equipment operators and wear hard hats and Hi-vis safety vest when heavy equipment is operating on-site. Be aware of other vehicle traffic while heavy machinery is operating on-site. 3. Avoid loose clothing, long hair, and jewelry when working around rotary equipment. 4. Keep hands and feet away from drilling augers, excavation equipment tracks/tires, and other on-site heavy equipment. 5. Test emergency shut-off switches on equipment prior to daily use. 6. Do not enter manholes or confined spaces. 7. Be aware of openings into manholes and keep area clear of trip hazards. 8. Be aware of outside terrain – steep slopes and slip, trip hazards while working. 9. Be aware of biological hazards on-site such as insects (bees, mosquitoes, and flies), ticks, spiders, and snakes. 10. Be aware of botanical hazards such as poison ivy, poison sumac, and giant hogweed. 11. Be aware of improperly discarded sharps.
Back Injury	1. Use a mechanical lifting device or a lifting aid where appropriate. 2. Ensure the route is free of obstructions. 3. Bend at the knees and use leg muscles when lifting. 4. Use the buddy system if lifting heavy or awkward objects. 5. Do not twist or jerk your body when lifting.
Heat Stress	1. Increase consumption of water and electrolytes while working. 2. Avoid excessive alcohol intake the night before working in heat stress situations. 3. Avoid excessive caffeine intake when working in heat stress situations. 4. Increase number of rest breaks as necessary, and rest in a shaded area.

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Table 2 Potential Hazards and Control	
Potential Hazard	**Control**
	5. Watch for signs and symptoms of heat exhaustion and fatigue. 6. Rest in cool, dry areas. 7. In the event of heat stress or heat stroke, bring the victim to a cool environment and call 911.
Cold Stress	1. Wear cotton, wool or synthetic (polypropylene) undergarments to absorb perspiration from the body. 2. Wear additional layers of light clothing as needed for warmth. The layering effect holds in air, trapping body heat, and some layers could be removed as the temperature rises during the day. 3. Pay close attention to body signals and feelings (hypothermia symptoms), especially to the extremities. Correct any problem indicators by breaking from the work activity and moving to a rest area to warm up and add additional clothing. 4. Increase water intake while working. 5. Avoid excessive alcohol intake the night before working in cold conditions. 6. Increase the number of rest breaks as necessary, and rest in a warm area. 7. In the event of hypothermia or frost bite, bring the victim to a warm environment and call 911.
Fire Control	1. Smoking is not allowed on-site. 2. Keep flammable liquids in closed containers. 3. Isolate flammable and combustible materials from ignition sources. 4. Keep fire extinguisher nearby and use only if deemed safe. 5. Inform FSM or SHSO prior to a chemical being brought on-site.
Media Sampling (water, soil, groundwater, fill, soil gas, etc.)	1. Wear appropriate PPE to avoid skin, eye, and inhalation contact with contaminated media. 2. Stand upwind to minimize possible inhalation exposure, especially when opening monitoring wells or closed containers/vessels. 3. Conduct air monitoring, whenever necessary, to determine level of respiratory protection. 4. If necessary, employ engineering controls to assist in controlling chemical vapors.

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Table 2 Potential Hazards and Control	
Potential Hazard	**Control**
	5. When collecting samples on or near water bodies, wear a life jacket and employ the buddy system. 6. When collecting samples from water bodies, assess water conditions and the water current and ensure that the sampling vessel is stabilized, or the water is safe to enter.
Cleaning Equipment	1. Wear appropriate PPE to avoid skin and eye contact with Alconox or other cleaning materials. 2. Stand upwind to minimize possible inhalation exposure. 3. Properly dispose of spent chemical cleaning solutions and rinse accordingly.
Deer Ticks	1. Wear long pants and long sleeve shirts. Pants could be tucked into the top of socks at boot level. Shirt tucked into pants. 2. Wear insect repellant clothing. See SHSO for appropriate clothing. 3. Use tick repellent, this will need to be cleared with OSHO or SHSO to ensure that new chemicals are not introduced to the Site. 4. Perform personal body checks for the presence of ticks, after field work is complete and before the personnel have left the Site. 5. Notify the OHSO immediately if you have been bitten by a tick or discovered a tick on yourself.
Note: A first aid kit and fire extinguisher will be located in the C.T. Male company vehicle.	

Response actions to personal exposure from on-site contaminants include skin contact, eye contact, inhalation, ingestion, and puncture or laceration. The recommended response actions are presented in Section 11.0 of the HASP.

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5.9 Airborne Infectious Diseases

C.T. Male will follow applicable CDC, OSHA, New York State, and Local authority recommendations for infectious diseases. To address work Site safety regarding infectious disease exposure (including COVID-19), C.T. Male personnel will follow the most recent version of the C.T. Male Associates 'Airborne Infectious Disease Exposure Prevention Plan'. This plan would be followed when an airborne infectious disease is designated by the NYS Health Commissioner as a highly contagious communicable disease that presents a serious risk of harm to public health.

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6.0 TRAINING

The C.T. Male OHSO and SHSO will provide training to specifically address the activities, procedures, monitoring and equipment for the Site operations. It will include area and facility layout, hazards, emergency services (police, hospital, fire, etc.), and review of this HASP. Questions by workers, field personnel, etc. will be addressed at this time.

Workers and personnel conducting and/or supervising the project must have attended and successfully completed a 40 Hour Health and Safety Training Course for Hazardous Waste Operations and an annual 8-hour Refresher Course. Workers must take part in an employer medical surveillance program in accordance with OSHA 1910.120 requirements, including that the workers have had a medical physical within one (1) year prior to the date work begins and that they are physically able to wear a respirator.

Training that is regulated by OSHA and is applicable to C.T. Male work tasks will be completed by personnel prior to being allowed on-site.

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7.0 SITE ACCESS

The IRM and RI activities will be conducted within the Site boundaries. The site is located in an urban area surrounded by various commercial and retail businesses, offices and multi-family residential buildings. The perimeter of the site has been secured with a locked chain link fence.

The Contamination Reduction Zone (decontamination area), and Support Zone (clean area) shall be established outside the work area, as necessary. The work/exclusion, contamination reduction and support zone during the IRM and RI work have been identified and designated as follows:

Work/Exclusion Zone - The location of the work/exclusion zone will be determined in the field prior to the start of work and will vary depending on the work activities conducted. For the most part, the work/exclusion zone is anticipated to be defined with caution tape and cones. Only authorized persons with proper training and protective gear will be allowed to enter the work/exclusion zone.

Only OSHA trained individuals who are qualified to do the work and have read and signed this Site-specific HASP will be allowed within the work/exclusion zone. The SHSO or designee will be responsible for limiting access to unauthorized individuals.

Contamination Reduction Zone – If applicable, this zone will generally be a 30'± by 30'± area containing the decontamination pad, if needed. The size of the work zone may be adjusted based on Site conditions or restraints. The location will be determined prior to the start of work and may vary depending on the area(s) the work is being conducted. This zone is where decontamination of personnel and equipment will take place, as necessary, on the basis of the work being performed, and temporary storage of Investigation Derived Wastes (IDW), if needed.

Support Zone - Area outside of the contamination reduction zone; not including the work/exclusion zone. Unauthorized or untrained individuals must remain in this zone.

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8.0 PERSONAL PROTECTION

8.1 Level of Protection

Based on an evaluation of the potential hazards, the minimum level of protection to be worn by workers during implementation of the IRM and RI activities is defined as Level D protection and will be controlled on-Site by the SHSO or designee.

The minimum level D protective equipment will consist of field clothes, Hi-Vis shirts or vests, nitrile/work gloves, safety glasses, face covering as applicable, and safety boots (steel or composite toe). As appropriate, this level of protection may be modified to include hard hats, ear plugs, protective suits, coveralls, leg chaps, or face shield for additional protection.

If required, level C protective equipment will consist of the items listed for Level D protection with the added protection of a half face air purifying respirator equipped with P100/OV cartridges, chemical resistant clothing, inner and outer chemically resistant gloves, and chemical resistant safety over boots. Prior to field staff donning a respirator, the Project Manager and OSHO will need to approve the use of the respirator, cartridges and staff donning them. Staff that have medical clearance and have been fit tested, should have their full-face or half-face air purifying respirators available. Appropriate combination P100/OV filters or OV cartridges will need to be used with the air purifying respirators. If other contaminants are noted during site activities, a determination of the type of respirator cartridges will be conducted.

Level A or B is not anticipated, but if required, level B protective equipment will consist of the items listed for Level D protection except a self-contained breathing apparatus (SCBA) will be worn dependent on the level of contaminants present in the work zone, and protective suits will be required. When Site conditions warrant the need for level A or B protective equipment, work will cease, and the project will be re-evaluated to determine the necessity for eliminating the condition, employing engineering controls to reduce the potential contaminants of concern. C.T. Male staff are not approved for donning SCBA equipment.

8.2 Safety Equipment

Basic emergency and first aid equipment will be available at an area within the Support Zone clearly marked and available or within the C.T. Male company vehicle.

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This shall include, at a minimum, a first aid kit, fire extinguisher, supply of potable water (if not available on-site or not in an appropriate distance), soap, towels, face covering, or Clorox wipes (or similar). Extra PPE will also be kept in the work area, or within the C.T. Male company vehicle. The SHSO or designee shall be equipped with a cellular phone in case of emergencies.

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9.0 COMMUNICATIONS

The SHSO or designee will be equipped with a cellular phone in case of emergencies. The SHSO or designee shall notify the C.T. Male Project, Director of Human Resources and OSHO as soon as safely possible in the event of an accident, injury or emergency action.

Hand signals for certain work tasks will be employed, as necessary, and the buddy system will be employed, when feasible for IRM and RI activities.

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10.0 DECONTAMINATION PROCEDURES

10.1 Personnel Decontamination Procedures

Decontamination procedures will be carried out by all personnel leaving the Work/Exclusion Zone (except under emergency evacuation). The amount of decontamination performed will be dependent on the level of personal protection currently being worn within the exclusion zone.

1. Do not remove respiratory protection (if applicable) until all steps have been completed.
2. Clean outer protective gloves and outer boots, if worn, with water (preferably with a pressurized washer) over designated wash tubs in the exclusion zone to remove the gross amount of contamination.
3. Deposit equipment used (tools, sampling devices, and containers) at designated drop stations - on plastic drop sheets or in plastic lined containers. If disposable equipment is used, it can be discarded in the designated container.
4. Rinse outer boots if worn and gloves with clean water in designated rinse tubs. Remove outer boots if worn and gloves and deposit in designated area to be determined in the field for use the next day or when necessary. If disposable outer boots are worn, remove and discard in designated container.
5. Remove protective suit, if worn, and discard in designated container. If ear plugs were used, they can be discarded in designated container. Remove respirator at this time, if used; wash and rinse with clean water. P100/OV cartridges, when used, will be replaced daily. Used cartridges will be discarded in the designated waste container. Remove inner gloves and discard in designated container.
6. Remove hard hat & safety glasses, clean with Clorox wipes (or similar) prior to placing into C.T. Male vehicle.

10.2 Equipment and Sample Containers Decontamination

All decontamination will be completed by personnel in protective gear appropriate for the level of protection determined by the SHSO or designee. Manual sampling

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equipment including scoops, hand augers, and shovels which come into contact with the Site's soils or groundwater will be cleaned with a tap water (or filtered water)/detergent wash and a tap water (or filtered water) rinse. The sampling equipment will be decontaminated after each sample is collected at the Contaminant Reduction Zone (Decontamination Station). The sampling equipment wash, and rinse water will be captured in plastic pails or tubs and ultimately transferred to labeled appropriate storage containers(s) (e.g.: DOT 17H approved 55-gallon open top steel drums or frac tank) and staged on-site at a secure location.

Drill rig equipment (i.e., casing, drill rods, bits, core samplers) which comes into contact with the Site's soils or groundwater will be decontaminated with water wash and/or other methods within the Contaminant Reduction Area. Larger equipment (i.e., drill rig) which comes into contact with the Site's soils will be decontaminated with water wash and/or other methods within a decontamination pad. The cleaning will be performed at the completion of each boring location. Equipment decontamination wastes will be transferred to labeled appropriate storage containers and staged on-Site at a secure location.

Exterior surfaces of sample containers will be wiped clean with disposable paper towels in the decontamination zone and transferred to a clean cooler for transportation or shipment to the analytical laboratory. Sample identities will be noted and checked off against the chain-of-custody record. The disposable paper towels will be placed in the designated disposal container and disposed of as solid waste.

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11.0 EMERGENCY RESPONSE PROCEDURES

THE PROJECT EMERGENCY COORDINATORS ARE:

Project Manager (PM)	Aimee Smith 518.786.7551 (O) 518.223.2413 (C)
Field Services Manager (FSM)	Jonathan Dippert 518.786.7563 (O) 518.469.1183 (C)
Office Health and Safety Officer (OHSO)	Nancy Garry 518.786.7541 (O) 518.320.5783 (C)
Site Health and Safety Officer (SHSO)	To be determined based upon work task being completed.

The following standard emergency procedures will be used by on-Site personnel. The Project Manager, Field Services Manager and OHSO shall be notified of any on-Site emergencies, injuries or near misses and be responsible for assuring that the appropriate procedures are followed.

IN THE EVENT OF AN EMERGENCY DIAL 911

11.1 Personal Injury

In the event of an Emergency situation, dial 911. Emergency first aid shall be administered on-Site as deemed necessary and only by a trained individual, if available at the Site. If a trained individual is not available on-Site, decontaminate if feasible, and transport individual to nearest medical facility (Ellis Hospital). If feasible, the injured individual shall not transport themselves to the nearest medical facility. The SHSO or Project Manager will be responsible for completing the incident report in conjunction with the employee.

11.2 Personal Exposure

The recommended response to worker exposure from contaminants on-Site includes the following:

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SKIN CONTACT: Use generous amounts of soap and water. Wash/rinse affected area thoroughly, then provide appropriate medical attention, as necessary.

EYE CONTACT: Wash eyes thoroughly with potable tepid water supply provided on-site. Eyes should be rinsed for at least 15 minutes subsequent to chemical contamination. Provide medical attention, as necessary.

INHALATION: Move worker to fresh air and outside of the work zone and/or, if necessary, decontaminate and transport to hospital (Ellis Hospital). If respirator use is implemented at the time of inhalation, worker must not remove respirator until completely away from the work zone.

INGESTION: Decontaminate, if feasible, and transport to hospital (Ellis Hospital).

PUNCTURE WOUND OR LACERATION: Provide first aid at the Site and if wound needs medical attention, decontaminate, if feasible, and transport to hospital (Ellis Hospital).

If the affected worker is exposed to contaminants on-Site and the injury or accident prevents decontamination of the individual, the emergency responders must be notified of this condition and the exposure must be kept to a minimum.

11.3 Potential or Actual Fire or Explosion

Immediately evacuate area in the event of potential or actual fire or explosion and dial 911. Notify the local Fire and Police Departments, and other appropriate emergency response groups as listed in Section 1.2 of the HASP. Perform off-site decontamination and contain wastes for proper disposal. If a fire or explosion occurs, all on-site personnel must meet in the designated area of the Site (established by the SHSO or designee – prior to work starting and relayed to Site workers) for an accurate head count.

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11.4 Equipment Failure

Should there be any equipment failure, breakdown, etc. the Project Manager, FSM or SHSO shall be contacted immediately. There will be a concerted effort to replace or repair the equipment in a timely manner.

11.5 Spill Response

The SHSO or designee shall initiate a corrective action program with the subcontractors in the event of an accidental release of a hazardous material, suspected hazardous material, or petroleum. The SHSO or designee will act as the Emergency Coordinator with the subcontractors for the purposes of spill prevention; identifying releases; implementing clean up measures; and notification of appropriate personnel.

The corrective action program will be implemented by the Project Manager or SHSO or designee and subcontractor to effectively control and minimize any impact accidental releases may have to the environment.

Effective control measures will include:

- Preliminary assessment of the release.
- Control of the release source.
- Containment of the released material.
- Effective clean-up of the released material.

Potential sources of accidental releases include hydraulic oil spills or petroleum leaks from heavy equipment; cooling oils (potentially PCB containing) for electrical equipment handling and cleaning; and spills from drums and tanks. The SHSO or designee in conjunction with the subcontractor shall respond to an accidental release in the following manner:

- Identify the character, source, amount, and area affected by the release.
- Have subcontractor take all reasonable steps to control the release.
- Notify Project Manager and Field Services Manager.
- C.T. Male Project Manager will notify Site Contact for Albany State Street Limited Partnership.
- Notify the NYSDEC Spill Hotline at 1-800-457-7362 if required.

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- Contain the release with sorbent material which should include speedy-dry, spill socks and sorbent pads.
- Prevent the release from entering sensitive receptors (i.e., catch basins and surface water) using the specified sorbent material or sandbags.
- Coordinate cleanup of the released material.
- Oversee proper handling and storage of contaminated material for disposal.

At no time should personal health or safety be compromised or jeopardized in an attempt to control a release. All health and safety measures as outlined in this HASP should be adhered to.

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12.0 ADDITIONAL WORK PRACTICES

Workers will be expected to adhere to the established safety practices. Work on the project will be conducted according to established protocol and guidelines for the safety and health of all involved. The following will be adhered to:

- Employ the buddy system when possible, and for those work tasks which require it. Establish and maintain communications.
- Minimize contact with potentially contaminated soil, fill, soil gas and groundwater.
- Employ disposable items, when possible, to minimize risks during decontamination and possible cross-contamination during sample handling.
- Smoking, eating, or drinking after entering the work zone and before decontamination will not be allowed.
- Avoid heat and other work stress related to wearing personal protective equipment. Take breaks as necessary and drink plenty of fluids to prevent dehydration.
- Withdrawal from a suspected or actual hazardous situation to reassess procedures is the preferred course of action.
- The removal of facial hair prior to working on-site when a respirator is needed will be required to allow for a proper respiratory face piece fit.
- The Project Manager, OHSO, SHSO, and field personnel shall maintain records recording daily activities, meetings, facts, incidents, data, etc. relating to the project. These records will remain at the project Site or electronically available during the full duration of the project so that replacement personnel may add information while maintaining continuity.

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13.0 AUTHORIZATIONS

Personnel authorized to enter the exclusion zone at the Hamilton Hill Revitalization - Anchor Site at 750 State Street in the City of Schenectady, Schenectady County, New York while operations are being conducted must be certified by the OHSO or SHSO. Authorization will involve completion of appropriate training courses and review and sign off this HASP.

Personnel authorized to perform work on-site are as follows:

Company Representing	Written Name
C.T. Male	Aimee Smith, Jeff Marx, Jon Dippert, Dan Achtyl, Chris Ormsby, Cliff Bondi, Ryan Hubbard, Nancy Garry, Mary McCoy, Jorel Spain, Adam Rogers, Lucas Hufnagel, Patrick Kayayan, Nickolas Janowski, Kolby Mordecki, Rachel Lamar, Mary Loughlin, Eric White, Jenna Ice, David Talbot

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14.0 FIELD TEAM REVIEW

Each field team member shall sign this section after Site specific training is completed and before being permitted to work on-site.

I have read and understood this Site-Specific Health and Safety Plan, and I will comply with the provisions contained therein.

PROJECT: Interim Remedial Measures and Remedial Investigation
Hamilton Hill Revitalization - Anchor Site
750 State Street
City of Schenectady
Schenectady County, New York
BCP Site #C447055

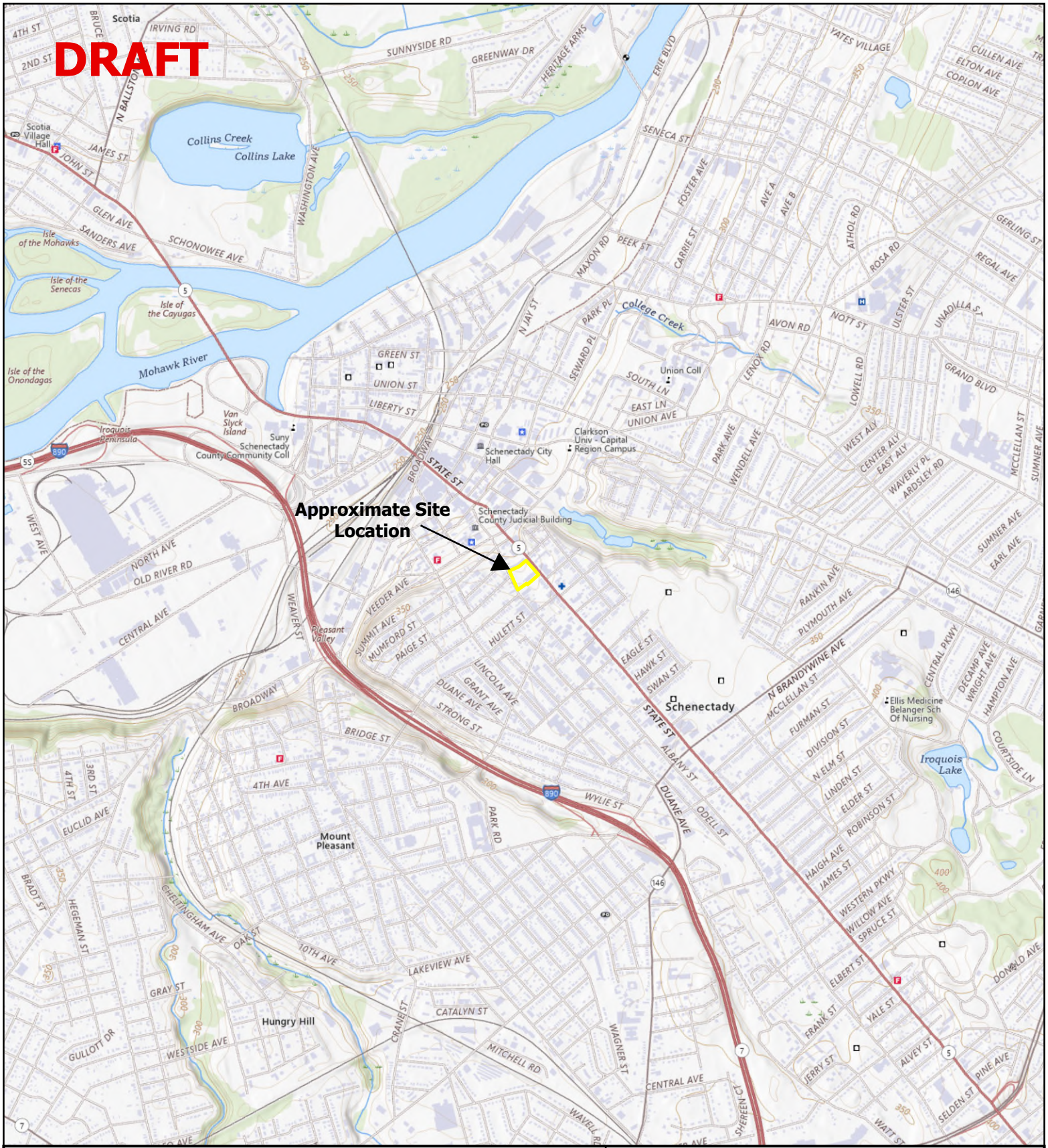
Name: Printed	Signature	Date

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FIGURE 1 OF THE HASP

SITE LOCATION MAP

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N

W E

S

Legend

Approximate Site Location

0 1,000 2,000 4,000 6,000 Feet

1 in =2,000 Feet

Project Number: 23.3588
Data Source: NYSGIS Clearinghouse
Projection: NAD 1983 StatePlane New York East FIPS 3101 (US Feet)
Date: April 6, 2026
File: 233588_Hamilton_Hill_Rehab.aprx
GIS: C Bondi

FIGURE 1
SITE LOCATION MAP
HAMILTON HILL REVITALIZATION - ANCHOR SITE

City of Schenectady **Schenectady County, NY**

C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture, Landscape Architecture & Geology, D.P.C.
50 CENTURY HILL DRIVE, LATHAM, NY 12110
518.786.7400 * FAX 518.786.7299

FIGURE 2 OF THE HASP

MAP SHOWING ROUTE TO ELLIS HOSPITAL

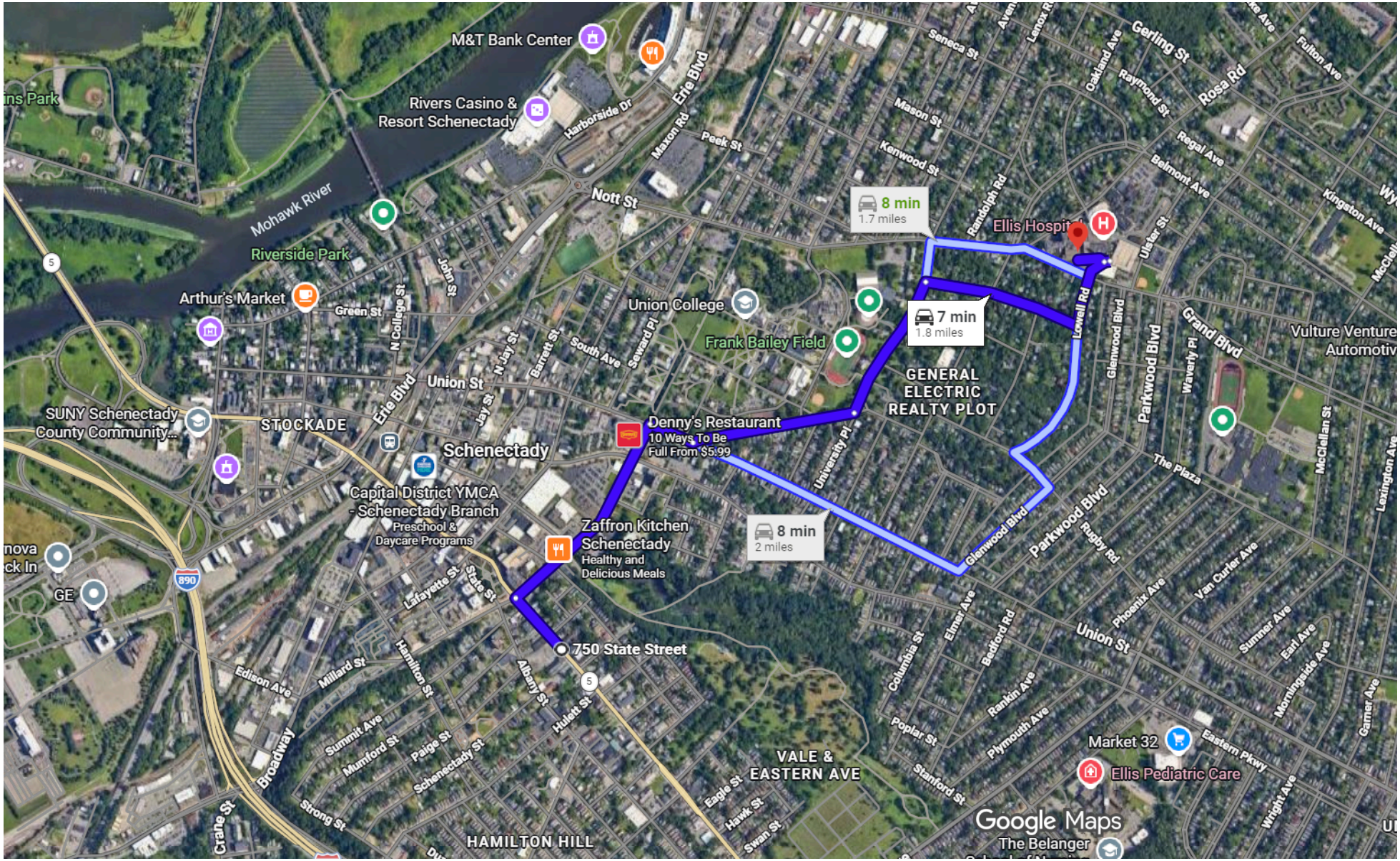
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Figure 2 - Route to Ellis Hospital

Google Maps

750 State St, Schenectady, NY 12307 to Ellis Hospital -Wright Heart Center, 1101 Nott St, Schenectady, NY 12308

Drive 1.8 miles, 7 min



Imagery ©2026 Airbus, CNES / Airbus, Maxar Technologies, Map data ©2026 Google 1000 ft

750 State St

Google Maps

750 State St, Schenectady, NY 12307 to Ellis Hospital -Wright Heart Center, 1101 Nott St, Schenectady, NY 12308

Drive 1.8 miles, 7 min

750 State St
Schenectady, NY 12307

1. Head toward Close St
   34 sec (0.1 mi)
2. Turn right onto Nott Terrace
   2 min (0.4 mi)
3. Turn right onto Union St
   18 sec (469 ft)

Continue on Union Ave to your destination
5 min (1.1 mi)

4. Turn left onto Union Ave
   0.3 mi
5. Turn left onto Lenox Rd
   0.3 mi
6. Turn right onto Avon Rd
   0.3 mi
7. Turn left onto Lowell Rd
   0.1 mi
8. Make a U-turn
   59 ft
9. Turn right
   Destination will be on the right
   276 ft

Ellis Hospital -Wright Heart Center
1101 Nott St, Schenectady, NY 12308

ATTACHMENT A

NYSDOH GENERIC COMMUNITY AIR MONITORING PLAN

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Appendix 1A
New York State Department of Health
Generic Community Air Monitoring Plan

Overview

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 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 DEC/NYSDOH staff.

Continuous monitoring will be required for all ground intrusive 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. APeriodic@ 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, particularly if wind direction changes. 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.

1. 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.

2. 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.

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

4. All 15-minute readings must be recorded and be available for State (DEC and NYSDOH) 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.

1. 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.

2. 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.

3. All readings must be recorded and be available for State (DEC and NYSDOH) and County Health personnel to review.

December 2009

Appendix 1B
Fugitive Dust and Particulate Monitoring

A program for suppressing fugitive dust and particulate matter monitoring at hazardous waste sites is a responsibility on the remedial party performing the work. These procedures must be incorporated into appropriate intrusive work plans. The following fugitive dust suppression and particulate monitoring program should be employed at sites during construction and other intrusive activities which warrant its use:

1. Reasonable fugitive dust suppression techniques must be employed during all site activities which may generate fugitive dust.

2. Particulate monitoring must be employed during the handling of waste or contaminated soil or when activities on site may generate fugitive dust from exposed waste or contaminated soil. Remedial activities may also include the excavation, grading, or placement of clean fill. These control measures should not be considered necessary for these activities.

3. Particulate monitoring must be performed using real-time particulate monitors and shall monitor particulate matter less than ten microns (PM10) with the following minimum performance standards:

(a) Objects to be measured: Dust, mists or aerosols;
(b) Measurement Ranges: 0.001 to 400 mg/m3 (1 to 400,000 :ug/m3);
(c) Precision (2-sigma) at constant temperature: +/- 10 :g/m3 for one second averaging; and +/- 1.5 g/m3 for sixty second averaging;
(d) Accuracy: +/- 5% of reading +/- precision (Referred to gravimetric calibration with SAE fine test dust (mmd= 2 to 3 :m, g= 2.5, as aerosolized);
(e) Resolution: 0.1% of reading or 1g/m3, whichever is larger;
(f) Particle Size Range of Maximum Response: 0.1-10;
(g) Total Number of Data Points in Memory: 10,000;
(h) Logged Data: Each data point with average concentration, time/date and data point number
(i) Run Summary: overall average, maximum concentrations, time/date of maximum, total number of logged points, start time/date, total elapsed time (run duration), STEL concentration and time/date occurrence, averaging (logging) period, calibration factor, and tag number;
(j) Alarm Averaging Time (user selectable): real-time (1-60 seconds) or STEL (15 minutes), alarms required;
(k) Operating Time: 48 hours (fully charged NiCd battery); continuously with charger;
(l) Operating Temperature: -10 to 50^{o} C (14 to 122^{o} F);
(m) Particulate levels will be monitored upwind and immediately downwind at the working site and integrated over a period not to exceed 15 minutes.

4. In order to ensure the validity of the fugitive dust measurements performed, there must be appropriate Quality Assurance/Quality Control (QA/QC). It is the responsibility of the remedial party to adequately supplement QA/QC Plans to include the following critical features: periodic instrument calibration, operator training, daily instrument performance (span) checks, and a record keeping plan.

5. The action level will be established at 150 ug/m3 (15 minutes average). While conservative,

this short-term interval will provide a real-time assessment of on-site air quality to assure both health and safety. If particulate levels are detected in excess of 150 ug/m3, the upwind background level must be confirmed immediately. If the working site particulate measurement is greater than 100 ug/m3 above the background level, additional dust suppression techniques must be implemented to reduce the generation of fugitive dust and corrective action taken to protect site personnel and reduce the potential for contaminant migration. Corrective measures may include increasing the level of personal protection for on-site personnel and implementing additional dust suppression techniques (see paragraph 7). Should the action level of 150 ug/m3 continue to be exceeded work must stop and DER must be notified as provided in the site design or remedial work plan. The notification shall include a description of the control measures implemented to prevent further exceedances.

6. It must be recognized that the generation of dust from waste or contaminated soil that migrates off-site, has the potential for transporting contaminants off-site. There may be situations when dust is being generated and leaving the site and the monitoring equipment does not measure PM10 at or above the action level. Since this situation has the potential to allow for the migration of contaminants off-site, it is unacceptable. While it is not practical to quantify total suspended particulates on a real-time basis, it is appropriate to rely on visual observation. If dust is observed leaving the working site, additional dust suppression techniques must be employed. Activities that have a high dusting potential--such as solidification and treatment involving materials like kiln dust and lime--will require the need for special measures to be considered.

7. The following techniques have been shown to be effective for the controlling of the generation and migration of dust during construction activities:

(a) Applying water on haul roads;
(b) Wetting equipment and excavation faces;
(c) Spraying water on buckets during excavation and dumping;
(d) Hauling materials in properly tarped or watertight containers;
(e) Restricting vehicle speeds to 10 mph;
(f) Covering excavated areas and material after excavation activity ceases; and
(g) Reducing the excavation size and/or number of excavations.

Experience has shown that the chance of exceeding the 150ug/m3 action level is remote when the above-mentioned techniques are used. When techniques involving water application are used, care must be taken not to use excess water, which can result in unacceptably wet conditions. Using atomizing sprays will prevent overly wet conditions, conserve water, and provide an effective means of suppressing the fugitive dust.

8. The evaluation of weather conditions is necessary for proper fugitive dust control. When extreme wind conditions make dust control ineffective, as a last resort remedial actions may need to be suspended. There may be situations that require fugitive dust suppression and particulate monitoring requirements with action levels more stringent than those provided above. Under some circumstances, the contaminant concentration and/or toxicity may require additional monitoring to protect site personnel and the public. Additional integrated sampling and chemical analysis of the dust may also be in order. This must be evaluated when a health and safety plan is developed and when appropriate suppression and monitoring requirements are established for protection of health and the environment.

EXHIBITS

EXHIBIT 1

2003 SUBSURFACE INVESTIGATION REPORT

SUBSURFACE INVESTIGATION

MOHAWK HONDA

728-756 STATE STREET
SCHENECTADY, NEW YORK 12307

NETC PROJECT #02.08164

PREPARED FOR:

HARADEN MOTOR CAR CORP.
756 State Street
Schenectady, New York 12307

PREPARED BY:

NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES CORP.
1476 NYS Route 50 - P.O. Box 2167
Ballston Spa, New York 12020
(518) 884-8545

DATED:

March 18, 2003

"..... providing integrated environmental and geotechnical services ....."

GEO-ENVIRONMENTAL CONSULTING & PROPERTY MANAGEMENT SERVICES - SITE ASSESSMENTS - GEOTECHNICAL DRILLING & DPT PROBE SERVICES - TANK CLOSURES - EXCAVATION SERVICES - SOIL & GROUNDWATER REMEDIATION - EXPERT TESTIMONY - WASTE BROKERAGE SERVICES

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1.0 INTRODUCTION

The following information outlines the results of a limited site investigation (SI) performed at 728 - 756 State Street, Schenectady, New York (hereinafter termed "the property"). The SI has been prepared at the request of Mr. Jeff Haraden of the Haraden Motor Car Corporation (dba Mohawk Honda). The work performed during the SI has been based on Northeastern Environmental Technologies Corporation's (NETC) technical workplan dated January 7, 20003. The focus of this SI will be to further evaluate the disposition of underground storage tank (UST) infrastructure identified as a result of a recently completed Phase 1 Environmental Site Assessment (ESA) . The development of the SI data is intended to determine if UST infrastructure exist at the property as well as determine if the historical use of USTs constitute a significant threat to the public health or the environment, necessitating further remediation.

1.1 General Information

The property, approximately ± 3.2 acres in size, is composed of six contiguous commercial parcels of land located in an urban portion of the City of Schenectady, New York (see **Figure 1, Appendix A**). Three commercial structures totaling ± 78,100 sq. ft. exist at the property. Areas of the property not occupied by the structural improvements are improved by asphalt or concrete parking surfaces. Two structures are operated for automotive sales and vehicular repair purposes. A third structure is a vacant office building, most recently used for retail and office space. The results of the Phase 1 ESA identified the historical use of (7) USTs at the property. Mohawk Honda representatives substantiated the removal of (1) 2000 gallon gasoline UST in 1992. A second UST has been reported by Mohawk Honda as closed in place. The disposition of the remaining (5) UST's has been the focus of this SI.

2.0 METHODOLOGIES

The following is a more detailed accounting of the field and analytical methods used to complete the SI work.

2.1 EM-61 Survey

On January 23 and 24, 2003 NETC performed a remote sensing field survey at the subject property. A high resolution, time domain electromagnetic (TDEM) metal detector was used to evaluate the presence of buried metallic structures. The TDEM survey was performed to identify, where possible, subsurface anomalies that may be associated with underground storage tank (UST) infrastructure. Nine rectangular reference grids (i.e., Grids A - I) were established on site in advance of the work using conventional field survey measuring equipment (see **Figure 2**, **Appendix A**). Terrain Conductivity (TC) measurements (mV) were recorded continuously (i.e., 0.6 ft.) in each reference grid using a Geonics TDEM metal detector (EM61). Grids D and F were based on random survey lines established at the property on an as needed basis to

compensate for areas occupied by structural improvements, utility lines and / or parked cars. The EM61 detects near surface ferrous and nonferrous metals at depths typically up to ± 6.0 - 10.0 feet below grade. Metals are identified within the instrument as the electromagnetic field for metallic objects takes longer to decay than that for the surrounding native soil. The data generated during the EM61 survey was numerically manipulated and graphically plotted in the field to illustrate the TC anomalies identified in each reference grid. Metallic anomalies identified during the EM61 survey were flagged in the field using conventional marker paint.

2.2 Soil Boring Survey

During January 30 and 31, 2003, eleven (11) soil borings were advanced in select areas of the property using direct push techniques (DPT). The specific DPT locations evaluated during this SI were based on the previously conducted EM -61 survey results and are illustrated on **Figure 3** (See **Appendix A**). The soil borings were installed to depths ranging from ± 3.0 to 20.0 feet to facilitate the acquisition of near surface soil samples. Each soil boring was completed in a manner to provide a geological log of the subsurface conditions and provide necessary data on the soil and / or groundwater condition. The DPT soil borings were installed utilizing NETC's truck mounted Geoprobe 540U sampling system following standard methods / techniques. NETC performed all aspects of the soil boring program and was responsible for detailed logging of all samples.

Three DPT soil borings GP-2, GP-10, and GP-11 were converted into permanent monitoring wells. The monitoring wells installed during this investigation are composed of two basic components; the well screen and riser of blank. The well screen is the intake portion of the monitoring well. The basic purpose of the riser is to provide storage and a connection to the surface from the well screen. Each monitoring well installed during the SI is constructed of 1-inch, threaded, flush joint, schedule 40 PVC pipe with 5-10 feet of 0.010 inch slotted well screen. The wells were constructed to a total depth of 12-20 feet and installed in such a manner as to screen (i.e., straddle) the upper most groundwater formation. The annular space around the well screen and ± 2.0 feet above has been filled with sand pack (0.010 grade). A bentonite seal has been installed above the sand pack. A PVC stick up was left in place at each well location.

NETC personnel have performed all aspects of the drilling, sampling and monitoring well installation program. NETC personnel have also establishing elevation control at each monitoring well using an assumed elevation datum (i.e., 100 ft.) established at the property for this SI. Copies of the individual soil boring and monitoring well logs are included as **Appendices B** and **C**, respectively.

2.2.1 Soil Sampling Program

A series of macro core soil samples were completed at soil borings GP-1 to GP-11 following continuous soil sampling methods. The objective of the soil boring services has been to develop a general understanding of the near surface geology and identify the presence of near surface petroleum contamination. The sampling depths for the soil borings represents the depth at which groundwater and / or drilling refusal was encountered. All sampling equipment was pre-cleaned prior to use. All soil samples were logged on site as they were extracted, labeled and retained for additional field volatile organic compound (VOC) analysis. New unused clear polyethylene terephthlate macro core sample liners (PETG) were used for all soil sampling work. All soil samples collected were examined and described using the Burmister and Unified Soil Classification System.

2.2.2 Soil Gas Analysis

Headspace soil gas measurements were recorded on all soil samples obtained during the test drilling services using a properly calibrated photoionization detector (PID- PhotoVac Model 2020). Photoionization uses ultraviolet light to ionize many trace compounds (especially organic) and the model 2020 employs this principal to measure the concentration of trace gasses. In the model 2020, a chamber adjacent to the ultraviolet light source contains a pair of electrodes. When a positive potential is applied to one electrode, the field created drives any ions in the chamber to the collector electrode where current is measured. Measured current is proportional to the concentration of organic's sampled by the instrument's probe. Useful range of the instrument is from 0.1 to 2,000 ppm. Direct VOC soil gas measurements were obtained from the headspace of each soil sample collected. VOC measurements were recorded on a ± 2.0 ft. Interval.

The results of the PID testing work were used to determine the presence and vertical extent of VOC soil contamination as well as to short list soil samples for additional chemical analysis. Soil samples (i.e., GP-4 [S-2], and GP-10 [S-3]) were submitted to Hudson Environmental Service (HES) for chemical analysis via STARS Method 8021 and 8270. The samples selected for analysis represents soils samples with elevated VOC soil gas concentrations. Formal chain of custody documentation were maintained throughout the shipment of the NETC samples to the laboratory.

2.3 Decontamination Procedures

Prior to drilling the first boring, the equipment was cleaned to remove possible contaminants encountered during drilling at previous jobs. All drilling equipment underwent the initial cleaning procedure. While working at the property, the drilling equipment was decontaminated between soil borings to prevent cross-contamination. The cleaning process involved the use of a alconox wash and a high pressure water rinse. All waters resultant from the decontamination procedure have been containerized on the property in 55 gallon 17H salvage drums.

2.4 Groundwater Sampling Procedures

On January 30 and 31, 2003 groundwater samples were collected from temporary soil borings GP-3, GP-5 and GP-8 and monitoring wells GP-2, GP-10 and GP-11. The monitoring wells were sampled with new unused bottom filled, check value PVC bailers using monofilament to lower and raise the bailer. Groundwater samples collected at soil borings GP-2, 10 and 11 were obtained using new polyethylene tubing and the Geoprobe 540U vacuum volume groundwater sampling system. All sample containers and preservatives were provided by HES. All samples were collected in such a manner as to minimize agitation and other disturbing conditions, which may cause physio-chemical changes and bring about losses due to volatilization, adsorption, redox changes or degradation. All sampling equipment was new and dedicated to each monitoring well.

Each of the groundwater samples were submitted to HES for chemical analysis via EPA Method 502.2. Formal chain of custody documentation was maintained throughout the shipment of the NETC sample to the laboratory. Observations were also made and recorded regarding weather and surrounding air/water/soil conditions, non-aqueous components of well water (e.g. "floaters," surface sheen's) and any other pertinent field conditions.

3.0 FINDINGS

3.1 Geology

The field results obtained from the soil boring work identify the unconsolidated deposits as brown medium to fine sand, and some silt. Buried cultural fill and asphalt was identified in the majority of the soil borings advanced at the property. The cultural fill layer is attributed to the demolition of commercial structure that have existed at the property. A shallow groundwater table was encountered in each of the soil borings at a depth of ± 8.0 feet below grade.

Background (i.e., 0.0 ppm) VOC soil gas concentrations were documented in the soil samples collected at soil borings GP-1, 2, 3, 5, 6, 7, 8 and 9. Conversely, visual or olfactory evidence of petroleum contamination was identified in the soil samples collected at soil borings GP-4, GP-10 and GP-11. VOC soil gas concentrations recorded at soil borings GP-4, 10 and 11 range from 41.7 to 314 parts per million (ppm). The most ostensible soil contamination was found in GP-4 in the 4.0 - 8.0 foot soil horizon. The areal and vertical extent of soil impacts is not fully defined.

3.2 Hydrogeology

Groundwater elevations established at the property on February 5, 2003 range from 79.26 ft. (GP-10) to 92.73 ft. (GP-2). No measurable light non aqueous phase liquid (LNAPL) contamination was recorded in the network of monitoring wells. A petroleum odor and a petroleum sheen was detected in groundwater samples collected at GP 10 and 11. The apparent flow direction in the shallow groundwater table is to the north northeast (see **Figure 4, Appendix A**). A groundwater gradient of 5.61×10^{-2} ft/ft has been established within the field of monitoring wells. An apparent average groundwater velocity (i.e., bulk motion of groundwater; a/k/a advection, convection or linear groundwater velocity $V_{GW} = KI/\theta_E$) of 1.99×10^{-4} ft/day, has been computed for the subject area assuming an average hydraulic conductivity (K) of 0.03195 gpd/ft^2 and an effective porosity of 40%. This assessment of the sites hydrogeologic characteristics should be considered a generalization only. The V_{GW} estimation has not considered partitioning effects (sorption), biodegradation and / or, hydrodynamic dispersion, all of which will influence the transport of dissolved contaminants. Seasonal variations in groundwater table have not been incorporated in this assessment. A specific accounting of the field data assimilated during this SI is included as **Table 1**.

TABLE 1
GROUNDWATER MONITORING DATA

WELL	DTW feet	NAPL feet	GW ELE feet
GP-2	6.23	0.00	92.73
GP-10	12.37	0.00	79.26
GP-11	11.05	0.00	88.225

Notes: All elevations are in feet. NAPL= Non-Aqueous Phase Liquids.
DTW= Depth to Water GW ELE. = Groundwater Elevation

3.3 EM-61 Results

The EM-61 survey identified several areas of elevated terrain conductivity. The anomalies located in survey grids A, B, D, E, G, and H (see **Figure 5, Appendix A**) are consistent in shape and size with small capacity UST infrastructure. The remaining metallic anomalies identified during the EM-61 survey are attributed to cultural interference (i.e., fence lines, curbs, parked cars, buried utilities, structural improvements, etc.) factors. Surface excavation services performed at the anomaly in Gird G has confirmed the presence of one UST. The anomaly located in the western portion of Grid E has been tentatively identified as the UST previously closed in place by the Haraden Motor Car Corporation. Additional invasive testing services are suggested at this time to confirm or dispute the presence of UST infrastructure at the property. A complete illustration of the EM-61 data generated during the survey work has been included in **Appendix D** for consideration.

4.0 LABORATORY RESULTS

4.1 Soil Quality Results

To further corroborate the results of the field soil gas services two soil samples, (i.e., GP-4 [S-2] and GP-10 [S-3]) were submitted to HES for laboratory analysis of the chemical parameters inherent to the STARS Method 8021 & 8270 testing criteria. The soil sample locations were selected in areas exhibiting elevated VOC soil gas readings. The laboratory testing services have confirmed the presence of VOC contamination in both soil samples. No SVOC contamination were reported in either soil sample. The VOC petroleum compounds Benzene, Ethylbenzene, m-Xylene / p-Xylene, o-Xylene were reported above the DEC's soil quality guidance levels (TAGM#4046) in GP-4 [S-2]. Total VOC's in GP-4 [S-2] were above the 10,000 ppb threshold established in the DEC's TAGM #4046. The VOC petroleum compounds reported in GP-10 [S-3] were reported below DEC's soil quality guidance levels (TAGM#4046). In addition HES has identified other non-target petroleum based compounds (i.e., out side the STARS Method 8021 and 8270 testing criteria) in both soil samples. HES identified the non-target petroleum contaminants as indicative of a gasoline contaminant at GP-4 [S-2] and a fuel oil contaminant at GP-10 [S-3]. A summary of soil quality data is included as Table 2.

TABLE 2
HES SOIL QUALITY DATA

PARAMETER Sample ID Depth	Soil Sample Description GP-3 S-2 4 - 8'	 GP-10 S-3 8 - 12'	DEC Rec. Soil Cleanup Objective
MTBE	<54	39	1,000
Benzene	**465**	<6.2	60
Toluene	1,360	<6.2	1,500
Ethylbenzene	**5,572**	25	5,500
M-Xylene / p-Xylene	**17,285**	142	1,200
o-Xylene	**1,526**	30	1,200
Isopropylbenzene	825	<6.2	----*
n-Propylbenzene	1,227	<6.2	----*
1,3,5-Trimethylbenzene	2,960	75	----*
tert-Butylbenzene	928	26	----*
1,2,4-Trimethylbenzene	9,408	188	----*
sec-Butylbenzene	351	54	----*
p-Isopropyltoluene	1,955	<6.2	----*
n-Butylbenzene	<54	<6.2	----*
Non-Target Peaks	Positive	Positive	----
Total VOC's	**43,762**	579	10,000*

NOTES: C.U. = Concentration Units ug/kg
DEC= NYSDEC-TAGM-Determination of soil cleanup objectives and cleanup levels. 1994.
*= as perTAGM#4046;Total VOC<10,000ppb; Total SVOC<500,000ppb; Individual SVOC<50,000ppb.

A copy of the HES laboratory report is included in **Appendix E** for consideration.

4.2 Groundwater Quality Results

Groundwater samples collected from GP-2, GP-3, GP-5 and GP-8 have been reported by HES as unaffected by the chemical parameters inherent to EPA Method 502.2. MTBE, Isopropylbenzene in GP-10 and Ehtylbenzene, o-Xylene, Isopropylbenzene, n-Propylbenzene, sec-Butylbenzene, p-Isopropyltoluene and Naphthalene in GP-11 were detected at concentrations below the DEC's 6NYCRR Part 703 Water Quality Standards. Concentrations of sec-Butylbenzene in GP-10 and Benzene, m-Xylene / p-Xylene, 1,3,5-Trimethylbenzene, and 1,2,4-Trimethylbenzene in the GP-11 groundwater sample were reported slightly above the DEC's 6NYCRR Part 703 Water Quality Standards. Similar non-target petroleum compounds outside the EPA 502.2 testing criteria were reported in the GP-10 groundwater sample. HES has tentatively identified the non target petroleum compounds as polycyclic aromatics. **Table 3** represents a summary of HES groundwater quality data.

TABLE 3
GROUNDWATER QUALITY DATA
EPA Method 502.2

PARAMETER / Sample ID	Groundwater Sample GP-10	Groundwater Sample GP-11	DEC
MTBE	1.4	ND	10
Benzene	ND	2.2	1
Ethylbenzene	ND	2.4	5
M-Xylene / p-Xylene	ND	20	5
o-Xylene	ND	1.2	5
Isopropylbenzene	2.3	2.7	5
n-Propylbenzene	ND	2	5
1,3,5-Trimethylbenzene	ND	5.1	5
1,2,4-Trimethylbenzene	ND	15	5
sec-Butylbenzene	35	3.1	5
p-Isopropyltoluene	ND	2.6	5
Naphthalene	ND	8.8	10
Non-Target Peaks	Positive	Positive	-----
Total VOC's	38.7	65.1	-----

NOTES: Concentration Units ug/l
DEC= Groundwater Quality Standards & Guidelines (6NYCRR Part 703)
ND= Non-Detect
*= Principal Organic Compound Standard for Groundwater is 5ppb

Copies of the HES groundwater laboratory reports are included in **Appendix F** for consideration.

5.0 DISCUSSION

The completed SI has identified nine suspect metallic anomalies at the property. One anomaly located in Grid G was confirmed to represent an inactive UST. The size of the UST is presently estimated to be 1000 gallons. Similarly one buried anomaly located in Grid E was verbally identified by the representatives of the Haraden Motor Car Corporation as a UST which was previously closed in place.

The results of the soil borings advanced in the vicinity of the suspect UST anomalies have not identified the presence of petroleum contamination in Grids B, G and I. Soil and groundwater contamination has been confirmed in Grid E and Grid H. The most ostensible area of petroleum contamination is located in the center of the Mohawk Honda Parking area (Grid E) in the vicinity of two suspect UST's. The soil and groundwater result from this areas suggest a gasoline release. The second areas of petroleum contamination is located on the northeast side of 730 State Street (Grid H). The soil and groundwater data from Grid H suggest a fuel oil release. The areal and vertical extent to which petroleum contamination exists in these areas has not been fully defined.

6.0 RECOMMENDATIONS

Additional site investigation services are recommended at this time to further characterize the property conditions identified during this SI. The outstanding issues which should be addressed in future SI work include establishing if metallic anomalies identified at the property represent inactive UST infrastructure as well as establishing the areal and vertical extent of the petroleum contamination identified. The chemical testing methods recommended at this time include the DEC's STARS 8021 and 8270 testing criteria.

All UST infrastructure found to exist at the property should be removed in accordance with the DEC Petroleum Bulk Storage Regulation 6NYCRR PART 613.9. The necessity to remediate historic petroleum contamination documented at the property should be in part based on input from the government. It is the opinion of this firm that the DEC should be notified of the property conditions pursuant to the DEC's regulatory reporting requirements outlined in PBS regulation 6NYCRR PART 613.8. A work plan may need to be submitted to the DEC for its approval.

Based on the SI information developed thus far, a focused soil removal program is considered a viable method to remove, were possible, the gross near surface petroleum contaminated unconsolidated deposits identified at the property. A source removal program of this nature is a prudent method for the protection of the shallow groundwater system. NETC's opinion on this matter and any remediation, should take into account, on the urban location of the property, the use of municipal water, and the lack of sensitive receptors in the immediate area.

7.0 LIMITATIONS STATEMENT

The findings and opinions offered are based on a limited subsurface investigation; no warranties are offered or implied. NETC opinions regarding the significance of the property soil and groundwater conditions are based on historical regulatory directives and similar opinions previously issued by the DEC for situations of a similar nature.

No attempt has been at this time to pursue this matter with the government. NETC is prepared to forward a copy of this report to the DEC on behalf of the Haraden Motor Car Corporation, if necessary. As with any investigation of a limited scope should additional information become available modification to this report may be appropriate. If you have any questions regarding this matter please contact our offices at (518) 884-8545. The NETC organization and I remain available to assist you and your organization with this and related matters, as necessary.

APPENDIX A

FIGURES

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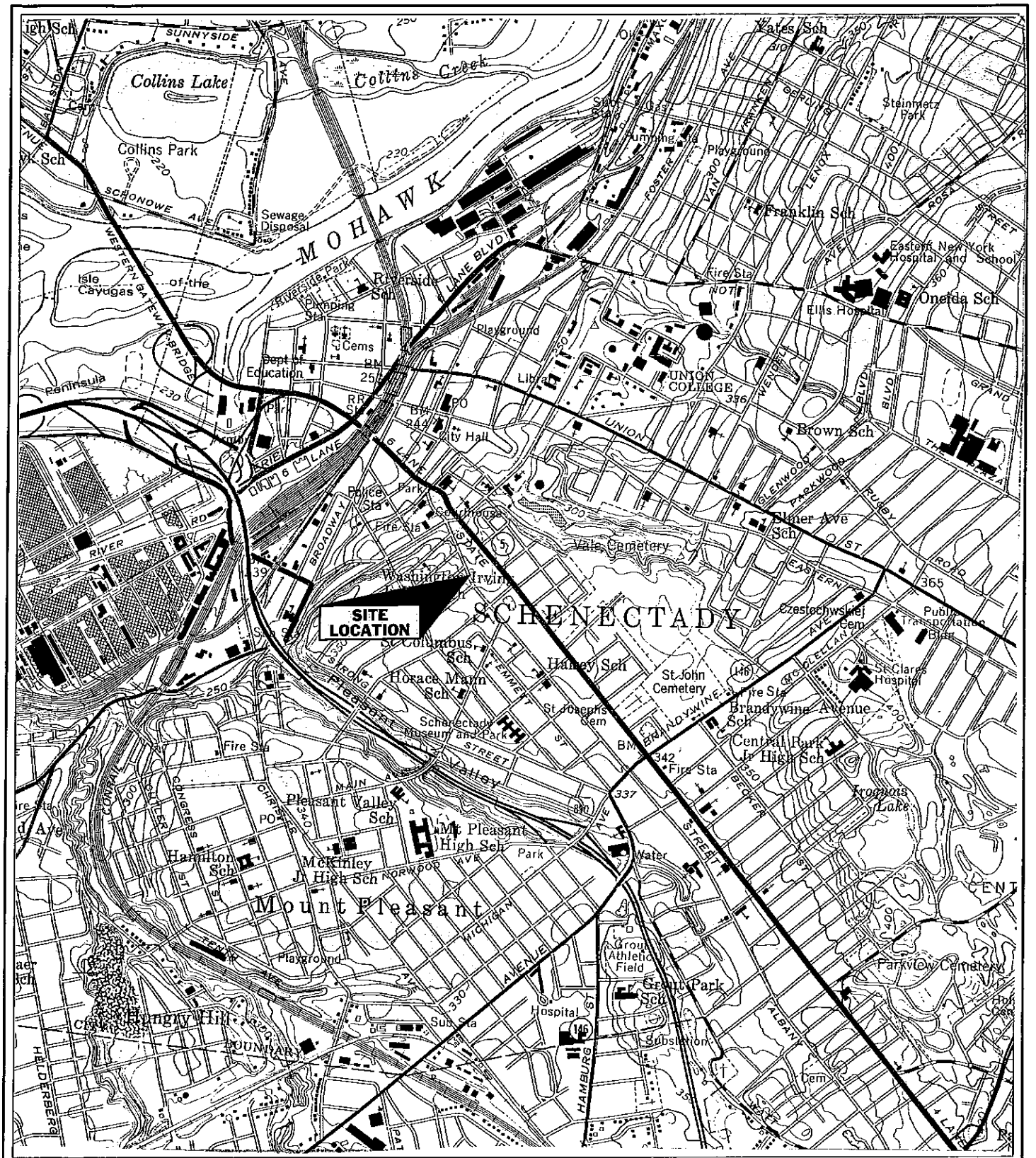
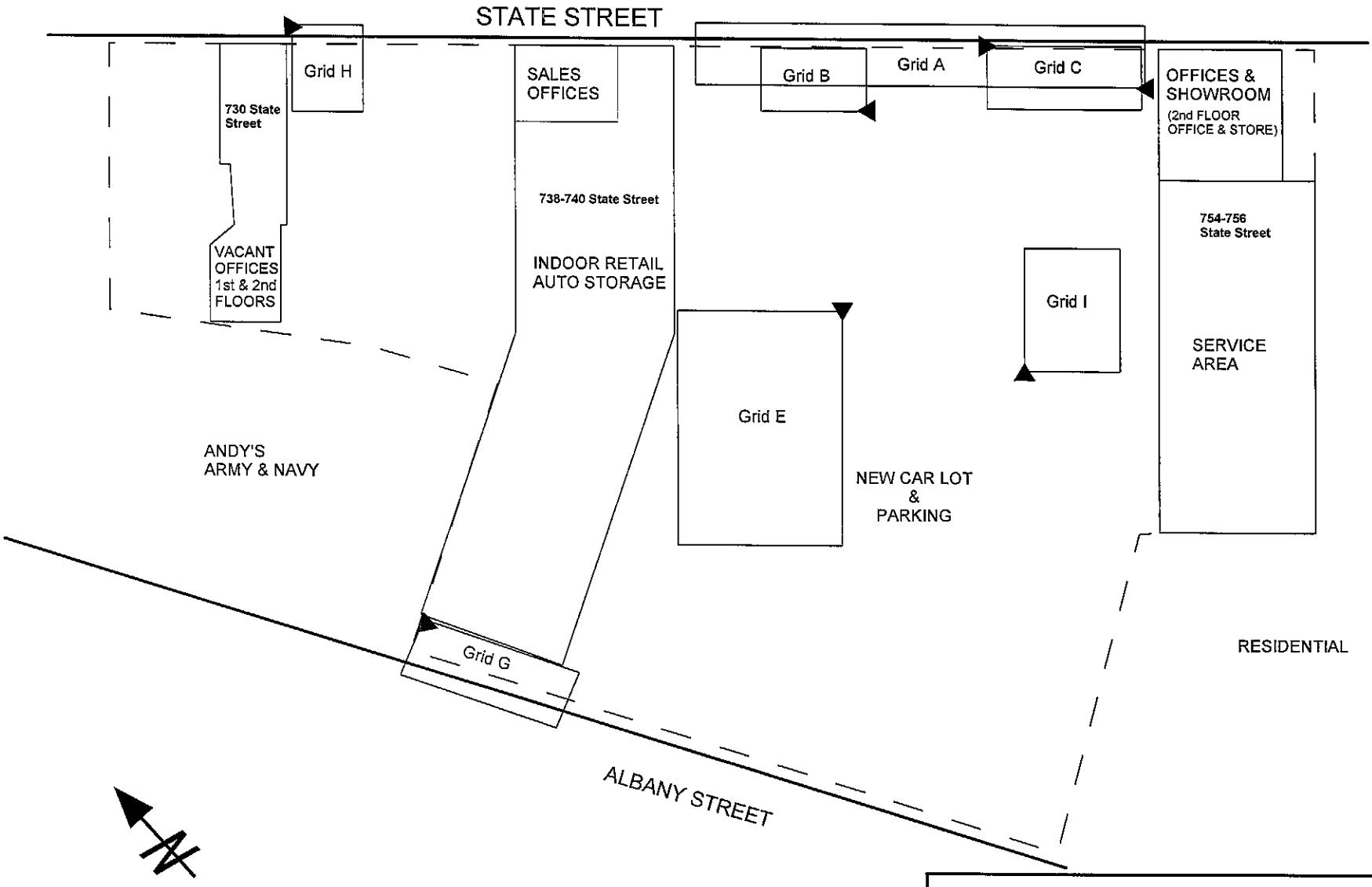


FIGURE 1: Location Map **PROJECT:** Mohawk Honda 728-756 State Street Schenectady, NY		
Project # 02.08164	SCALE 1"= 2000'	Date: 08/14/02

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GEO-ENVIRONMENTAL CONSULTING & PROPERTY MANAGEMENT SERVICES * SITE ASSESSMENTS * GEOTECHNICAL DRILLING & DPT PROBE SERVICES * TANK CLOSURES * EXCAVATION SERVICES * SOIL & GROUNDWATER REMEDIATION * EXPERT TESTIMONY * OSHA FIELD CERTIFIED



LEGEND

EM-61 Grid Location and Direction

NOTES:

Site map based on 1990 Sanborn Map.
EM-61 Grid locations are aproximated

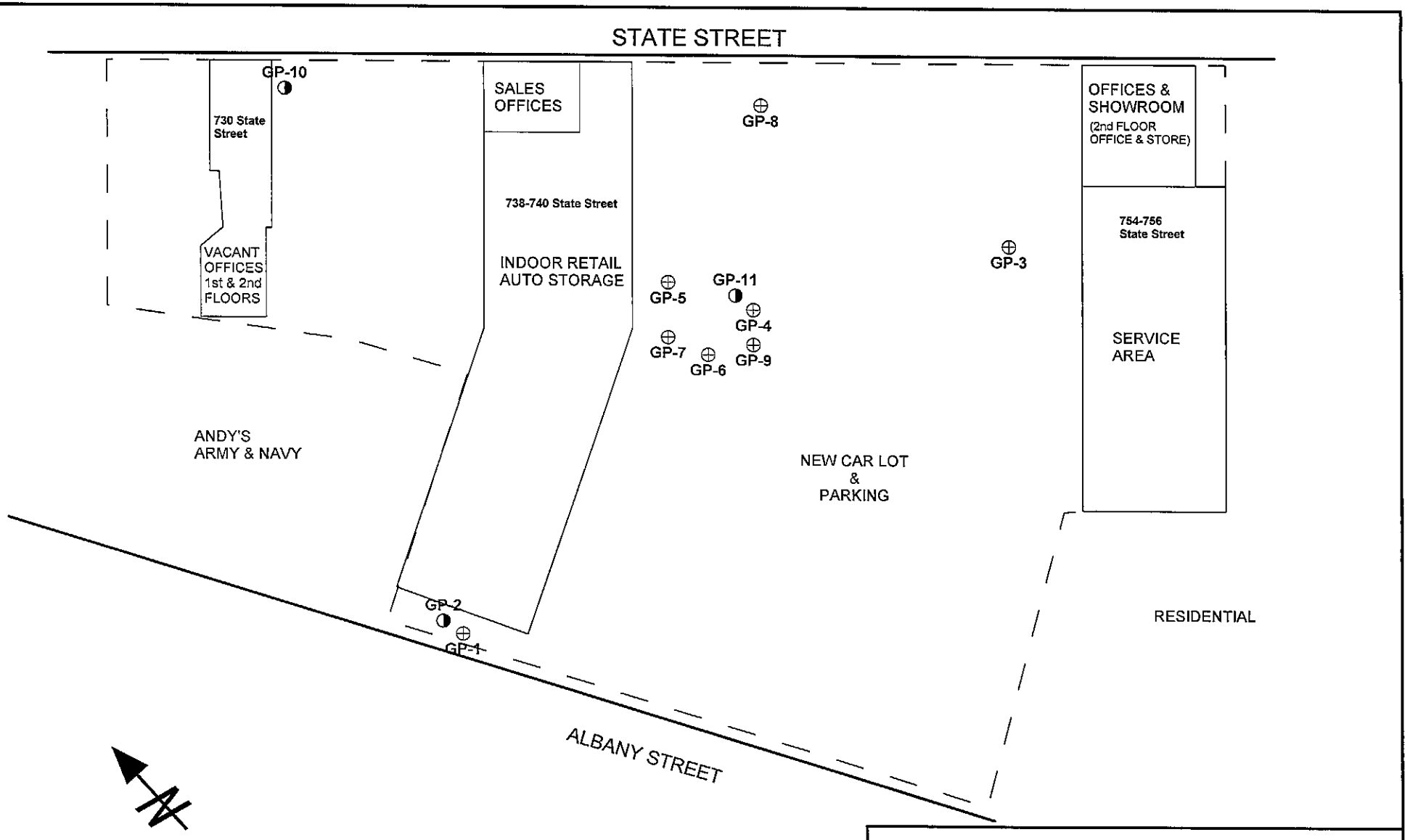
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Phone: (518) 884-8545 Fax: (518) 884-9710 e-mail: jwink@attglobal.net

FIGURE 2: EM-61 Grid Location Map

PROJECT: Mohawk Honda
728-756 State Street Schenectady, New York

Project # 02.08164	Scale: 1"=60.0'	Date 1/30/03

common/netc projects/sites/mohawk honda/phase 2/maps/EM-61 Grids



LEGEND

◑ DPT Boring & Monitoring Well Location (GP-2)

⊕ DPT Boring Location (GP-4)

NOTES:

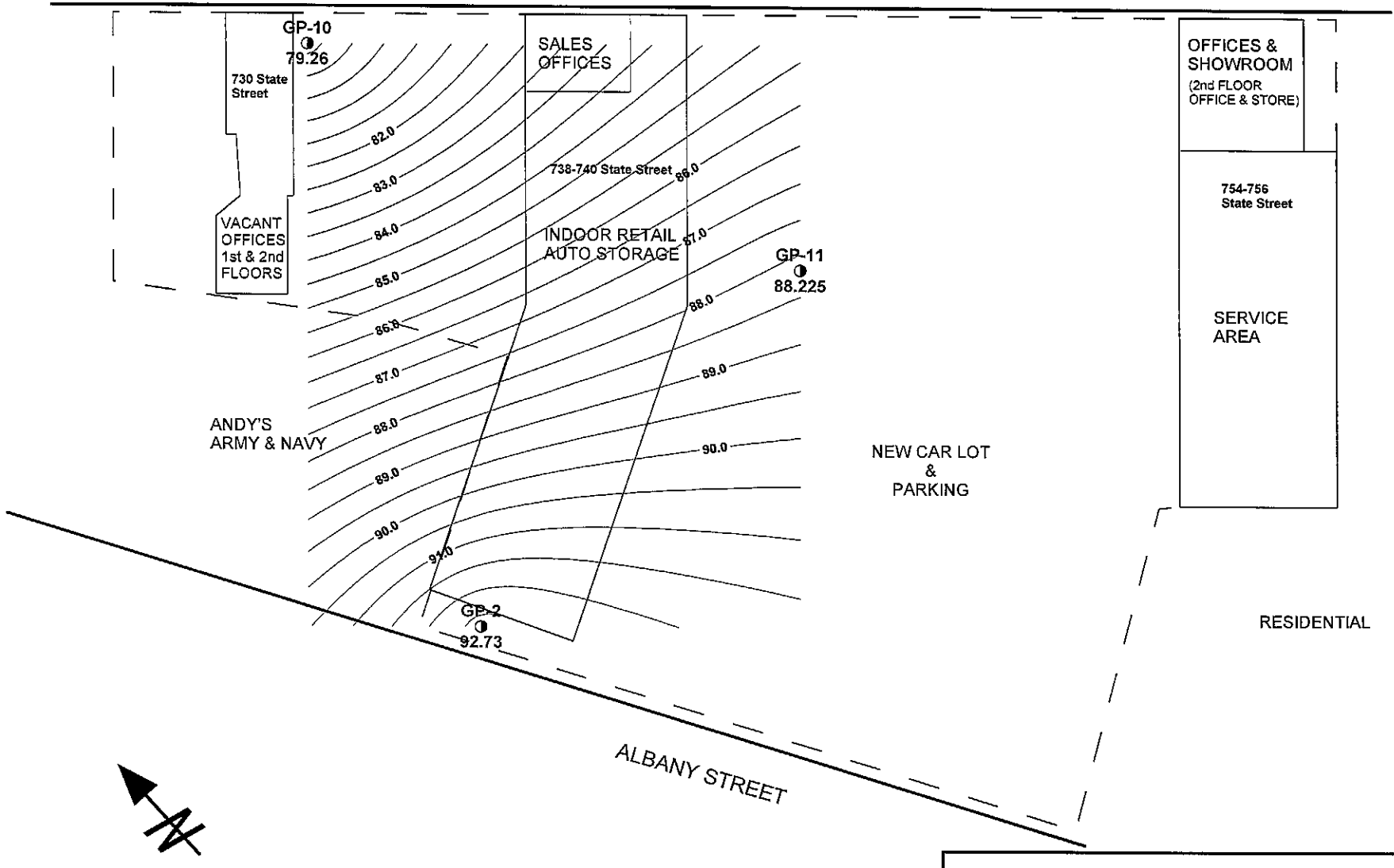
Site map based on 1990 Sanborn Map.
DPT well locations are aproximated with in +/-10.0 feet.
DPT Boring Locations are not to scale.

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FIGURE 3: DPT Boring & Monitoring Well Location Map
PROJECT: Mohawk Honda
728-756 State Street Schenectady, New York

Project # 02.08164	Scale: 1"=60.0'	Date 1/30/03

common/neta projects/sites/mohawk honda/phase 2/maps/boringlocmap



LEGEND

◑ 1" PVC DPT Well Location
GP-2

NOTES:

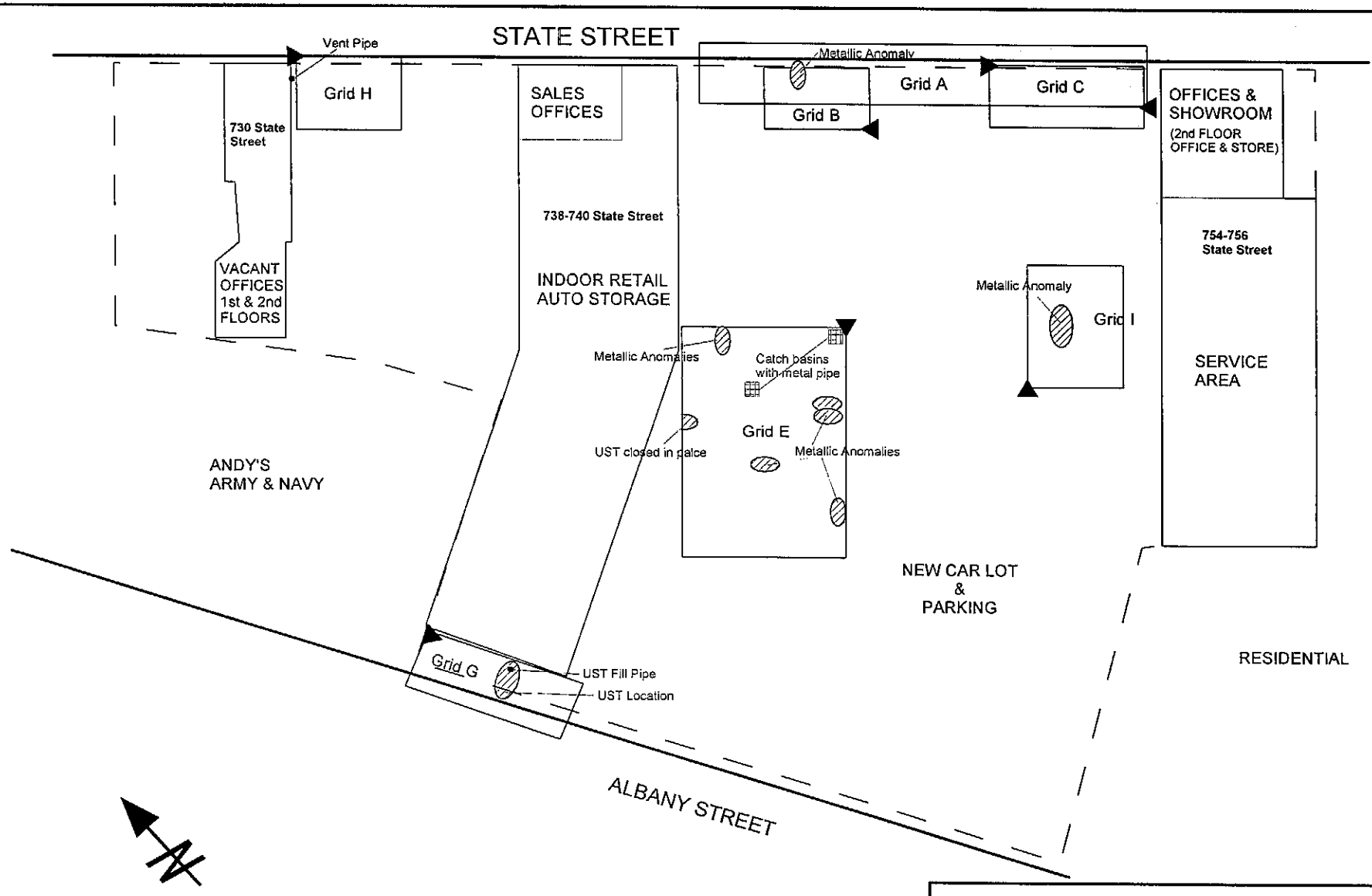
Site map based on 1990 Sanborn Map.
DPT well locations are aproximated with in +/-10.0 feet

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FIGURE 4: Groundwater Contour Map 2-5-03
PROJECT: Mohawk Honda
728-756 State Street Schenectady, New York

Project # 02.08164	Scale: 1"=60.0'	Date 1/30/03

common/netc projects/sites/mohawk honda/phase 2/maps/gwcont2-5-03



LEGEND

EM-61 Grid Location and Direction

NOTES:

Site map based on 1990 Sanborn Map.
EM-61 Grid locations are aproximately.
Metallic anomaly Location are aprroximated.

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FIGURE 5: EM-61 Anomaly Location Map

PROJECT: Mohawk Honda
728-756 State Street Schenectady, New York

Project # 02.08164	Scale: 1"=60.0'	Date 1/30/03

common/netc projects/sites/mohawk honda/phase 2/maps/EM-61 Anomaly

APPENDIX B

DPT SOIL BORING LOGS

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NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG

Boring No. GP-1

PROJECT:	Mohawk Honda					**SHEET NO.**	1 of 1
CLIENT:	Haraden Motor Car Corp.					**JOB NO.**	02.08164
DRILLING CONTRACTOR:	Northeastern Environmental Technologies Corporation					**M.P. ELEV.**	-----
PURPOSE:	Subsurface Investigation					**GR. ELEV.**	-----
DRILLING METHOD:	Direct Push		**Soil Sample**	**GW Sample**	**Sample Method**	**DATUM**	-----
DRILL RIG:	Geoprobe 540U	**TYPE**	Macro	----	----	**DATE START**	Jan. 30, 2003
GROUND WATER LEVEL:	Dry	**DIAM.**	2.0"	----	----	**DATE FINISH**	Jan. 30, 2003
MEASURING PT.:	Ground	**Sample**	Yes	No	No	**DRILLER**	R. Earl
DATE:	Jan. 30,2003	**Screen**	-----	----	----	**INSPECTOR**	T. Scott

Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS
1.0				Aspalt - Br Bk mfS s, $ l, c-fG	R=1.3'
2.0	S-1	Bkg	SM	Brown Black medium to fine SAND, some silt, little course to fine gravel	No Odor, Dry
3.0	S-2	Bkg	SM	Br mfS s,$ (+/- 2.0 ft)	R=0.8'
4.0					No Odor, Dry
5.0				Refusal 3.5 feet (concrete and shale in shoe)	
6.0					
7.0					
8.0					
9.0					
10.0					
11.0					
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

Groundwater sample not collected

Soil boring Completed @ 3.5 feet

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NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG

Boring No. GP-2

PROJECT: Mohawk Honda	**SHEET NO.** 1 of 1
CLIENT: Haraden Motor Car Corp.	**JOB NO.** 02.08164
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corporation	**M.P. ELEV.** 98.96 ft
PURPOSE: Subsurface Investigation	**GR. ELEV.** 98.77 ft
DRILLING METHOD: Direct Push	**DATUM** 100.00 ft
DRILL RIG: Geoprobe 540U	**DATE START** Jan. 30, 2003
GROUND WATER LEVEL: Wet+/-8.0'	**DATE FINISH** Jan. 30, 2003
MEASURING PT.: Ground	**DRILLER** R. Earl
DATE: Jan. 30,2003	**INSPECTOR** T. Scott

	Soil Sample	GW Sample	Sample Method
TYPE	Macro	Bailer	Sch40PVC
DIAM.	2.0"	0.375	1.0"
Sample	Yes	Yes	Yes
Screen	-----	----	5.0'

Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS
1.0	S-1	Bkg	SM	Augered first foot, Asphalt/frost	
2.0				Br m-fS s,$	R=2.6'
3.0				Brown medium to fine Sand, some silt	No Odor
4.0					Dry
5.0	S-2	Bkg	SM	Same as above	R=3.0'
6.0					No Odor
7.0					Dry/Wet
8.0			SM	Br c-fS s, $ (WET) (+/- 8.5 ft.)	
9.0	S-3	Bkg		same as above	R=3.8'
10.0			SM	Br fS a $ (+/- 9.0 ft.)	No Odor
11.0					Wet
12.0					
13.0				End of Boring 12.0'	
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

Collected a Groundwater sample @ 10.0 feet

Soil Boring Completed @ 12.0 feet

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NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG

Boring No. GP-3

PROJECT:	Mohawk Honda					**SHEET NO.**	1 of 1
CLIENT:	Haraden Motor Car Corp.					**JOB NO.**	02.08164
DRILLING CONTRACTOR:	Northeastern Environmental Technologies Corporation					**M.P. ELEV.**	-----
PURPOSE:	Subsurface Investigation					**GR. ELEV.**	-----
DRILLING METHOD:	Direct Push		**Soil Sample**	**GW Sample**	**Sample Method**	**DATUM**	-----
DRILL RIG:	Geoprobe 540U	**TYPE**	Macro	----	Temp. Well	**DATE START**	Jan. 30, 2003
GROUND WATER LEVEL:	Wet+/-13.0'	**DIAM.**	2.0"	----	0.375	**DATE FINISH**	Jan. 30, 2003
MEASURING PT.:	Ground	**Sample**	Yes	Yes	Yes	**DRILLER**	R. Earl
DATE:	Jan. 30,2003	**Screen**	-----	----	5.0'	**INSPECTOR**	T. Scott

Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS
1.0	S-1	Bkg	SM	Augered first foot, Asphalt	
2.0				Br m-fS s, $	R=2.5'
3.0				Brown medium to fine Sand, some silt	No Odor
4.0					Dry
5.0	S-2	Bkg	SM	Br m-fS s, $ occ. conc. fgmts (+/- 4.0 ft.)	R=3.6'
6.0					No Odor
7.0					Dry
8.0				Bottom Brick Fragments	
9.0	S-3	Bkg	SM	Br m-fS s,$ occ. brick fgmts (+/- 8.0 ft.)	R=3.0'
10.0					No Odor
11.0					Dry
12.0					
13.0	S-4	Bkg	SM	Br m-fS s,$; occ metal fgmts (WET) (+/- 12.0 ft.)	R=3.6'
14.0					No Odor
15.0					Wet
16.0					
17.0				End of Boring 16.0'	
18.0					
19.0					
20.0					

Collected a Groundwater sample @ 12.0 feet

Soil Boring Completed @ 16.0 feet

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NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG

Boring No. GP-4

PROJECT:	Mohawk Honda				**SHEET NO.**	1 of 1
CLIENT:	Haraden Motor Car Corp.				**JOB NO.**	02.08164
DRILLING CONTRACTOR:	Northeastern Environmental Technologies Corporation				**M.P. ELEV.**	-----
PURPOSE:	Subsurface Investigation				**GR. ELEV.**	-----
DRILLING METHOD:	Direct Push		**Soil Sample**	**GW Sample**	**Sample Method**	**DATUM**	-----
DRILL RIG:	Geoprobe 540U	**TYPE**	Macro	----	----	**DATE START**	Jan. 30, 2003
GROUND WATER LEVEL:	Dry	**DIAM.**	2.0"	----	----	**DATE FINISH**	Jan. 30, 2003
MEASURING PT.:	Ground	**Sample**	Yes	No	No	**DRILLER**	R. Earl
DATE:	Jan. 30,2003	**Screen**	-----	----	----	**INSPECTOR**	T. Scott

Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS
1.0	Cuttings	Bkg		Concrete - Top 0.2' Cuttings Bk Br c-fS s,$	R=2.5'
2.0	S-1	Bkg	SM	Br c-fS s,$	No Odor
3.0				Brown course to fine Sand, some silt.	Dry
4.0				+/- 3.5' conc, Fragments	
5.0				Gr Dk Gr c-fS s,$ (+/- 4.0 ft.)	R=3.0'
6.0	S-2	314.0	SM		Strg. Odor
7.0					Dry
8.0					
9.0				End of Boring - Refusal 8.5'	
10.0					
11.0					
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

Groundwater sample not collected

Soil boring Completed @ 8.5 feet

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NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG

Boring No. GP-5

PROJECT: Mohawk Honda	**SHEET NO.** 1 of 1
CLIENT: Haraden Motor Car Corp.	**JOB NO.** 02.08164
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corporation	**M.P. ELEV.** -----
PURPOSE: Subsurface Investigation	**GR. ELEV.** -----
DRILLING METHOD: Direct Push	**DATUM** -----
DRILL RIG: Geoprobe 540U	**DATE START** Jan. 30, 2003
GROUND WATER LEVEL: +/- 9.0	**DATE FINISH** Jan. 30, 2003
MEASURING PT.: Ground	**DRILLER** R. Earl
DATE: Jan. 30,2003	**INSPECTOR** T. Scott

	Soil Sample	GW Sample	Sample Method
TYPE	Macro	Tubing	Sch40PVC
DIAM.	2.0"	0.375"	1.0"
Sample	Yes	Yes	Yes
Screen	-----	----	5.0'

Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS
1.0	S-1	Bkg	SW	Asphalt - Augered to 4.0 ft refusal - moved augered to 4.0 ft	R=Cuttings
2.0				Dk Br c-fS s $; occ seam wh powder	No Odor
3.0				Dark brown coarse to fine SAND some, Silt; occasional seam white powder	Dry
4.0					
5.0	S-2	Bkg	SW	Br f-cS t, $ (+/- 4.0 ft.)	R=3.2'
6.0					No Odor
7.0					Dry
8.0					
9.0	S-3A	Bkg	SM	Bk m-fS a $; occ lyr Dk Gr Conc. (+/- 8.0 ft.)	R=3.6'
10.0					No Odor
11.0	S-3B	Bkg	SM	Br DkBr c-fS s,$ (+/- 10.0 ft.)	Dry
12.0					
13.0	S-4	Bkg		Br c-fS s,$ occ. Bk Stains (+/- 4.0 ft.)	R=4.0'
14.0					No Odor
15.0					Wet
16.0					
17.0				End of Boring 16.0'	
18.0					
19.0					
20.0					

Collected a Ground Water sample @ 14.0 feet

Soil Boring Completed @ 16.0 feet

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NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG

Boring No. GP-6

PROJECT:	Mohawk Honda				**SHEET NO.**	1 of 1
CLIENT:	Haraden Motor Car Corp.				**JOB NO.**	02.08164
DRILLING CONTRACTOR:	Northeastern Environmental Technologies Corporation				**M.P. ELEV.**	-----
PURPOSE:	Subsurface Investigation				**GR. ELEV.**	-----
DRILLING METHOD:	Direct Push		**Soil Sample**	**GW Sample**	**Sample Method**	**DATUM**	-----
DRILL RIG:	Geoprobe 540U	**TYPE**	Macro	----	----	**DATE START**	Jan. 30, 2003
GROUND WATER LEVEL:	Dry	**DIAM.**	2.0"	----	----	**DATE FINISH**	Jan. 30, 2003
MEASURING PT.:	Ground	**Sample**	Yes	No	No	**DRILLER**	R. Earl
DATE:	Jan. 30,2003	**Screen**	-----	----	----	**INSPECTOR**	T. Scott

Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS
1.0	S-1	Bkg	SM	Asphalt - 'Br DkBr c-fS s,$	R=Cuttings
2.0				Brown to dark brown course to fine Sand, some silt.	No Odor
3.0					Dry
4.0				End of Boring - Refusal 3.0' (Conc. Possible)	
5.0					
6.0					
7.0					
8.0					
9.0					
10.0					
11.0					
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

Groundwater sample not collected

Soil Boring Completed @ 3.0 feet

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NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG

Boring No. GP-7

PROJECT: Mohawk Honda	**SHEET NO.** 1 of 1
CLIENT: Haraden Motor Car Corp.	**JOB NO.** 02.08164
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corporation	**M.P. ELEV.** -----
PURPOSE: Subsurface Investigation	**GR. ELEV.** -----
DRILLING METHOD: Direct Push	**DATUM** -----
DRILL RIG: Geoprobe 540U	**DATE START** Jan. 30, 2003
GROUND WATER LEVEL: +/- 12'	**DATE FINISH** Jan. 30, 2003
MEASURING PT.: Ground	**DRILLER** R. Earl
DATE: Jan. 30,2003	**INSPECTOR** T. Scott

	Soil Sample	GW Sample	Sample Method
TYPE	Macro	Tube	Sch40PVC
DIAM.	2.0"	0.375"	1.0"
Sample	Yes	Yes	Yes
Screen	-----	----	5.0'

Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS
1.0	S-1	Bkg	SM	Br c-fS s,$	R=Cuttings
2.0				Brown course to fine Sand, some silt.	No Odor
3.0					Dry
4.0					
5.0	S-2	Bkg	SP	Br c-fS s,$ a c-fG (+/- 4.0 ft.)	R=3.5'
6.0					No Odor
7.0					Dry
8.0					
9.0	S-3	Bkg	SW	Br c-fS t, $ (+/- 8.0 ft.)	R=3.5'
10.0					No Odor
11.0					Wet at +/- 11.5'
12.0					
13.0	S-4	Bkg	SM	Br fS a f$ (+/- 12.0 ft.)	R=3.0'
14.0					No Odor
15.0					Wet
16.0					
17.0				End of Boring 16.0'	
18.0					
19.0				5' screen 20' of Tubing	
20.0					

Collected a Groundwater sample @ 14.0 feet

Soil Boring Completed @ 16.0 feet

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NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG

Boring No. GP-8

PROJECT:	Mohawk Honda				**SHEET NO.**	1 of 1
CLIENT:	Haraden Motor Car Corp.				**JOB NO.**	02.08164
DRILLING CONTRACTOR:	Northeastern Environmental Technologies Corporation				**M.P. ELEV.**	-----
PURPOSE:	Subsurface Investigation				**GR. ELEV.**	-----
DRILLING METHOD:	Direct Push		**Soil Sample**	**GW Sample**	**Sample Method**	**DATUM**	-----
DRILL RIG:	Geoprobe 540U	**TYPE**	Macro	Tube	Sch40PVC	**DATE START**	Jan. 30, 2003
GROUND WATER LEVEL:	+/- 8.0'	**DIAM.**	2.0"	0.375"	1.0"	**DATE FINISH**	Jan. 30, 2003
MEASURING PT.:	Ground	**Sample**	Yes	Yes	Yes	**DRILLER**	R. Earl
DATE:	Jan. 30,2003	**Screen**	-----	----	5.0'	**INSPECTOR**	T. Scott

Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS
1.0	S-1	Bkg	SM	Br m-fS s,$	R=Cuttings
2.0				Brown medium to fine Sand, some silt	No Odor
3.0					Dry
4.0					
5.0	S-2	Bkg	SM	Br m-fS s,$ occ. brk fgmts t, fG (+/- 4.0 ft.)	R=3.3'
6.0					NoOdor
7.0					Dry
8.0					Wet Bottom 0.5'
9.0	S-3	Bkg	SM	Br fS a $ (+/- 8.0 ft.)	R=3.1'
10.0					No Odor
11.0					Wet
12.0					
13.0				End of Boring 12.0'	
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

Collected Groundwater sample @ 10.0 feet

Soil Boring Completed @ 12.0 feet

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NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG

Boring No. GP-9

PROJECT:	Mohawk Honda				**SHEET NO.**	1 of 1
CLIENT:	Haraden Motor Car Corp.				**JOB NO.**	02.08164
DRILLING CONTRACTOR:	Northeastern Environmental Technologies Corporation				**M.P. ELEV.**	-----
PURPOSE:	Subsurface Investigation				**GR. ELEV.**	-----
DRILLING METHOD:	Direct Push		**Soil Sample**	**GW Sample**	**Sample Method**	**DATUM**	-----
DRILL RIG:	Geoprobe 540U	**TYPE**	Macro	Tube	Sch40PVC	**DATE START**	Jan. 30, 2003
GROUND WATER LEVEL:	+/- 8.0'	**DIAM.**	2.0"	0.375"	1.0"	**DATE FINISH**	Jan. 30, 2003
MEASURING PT.:	Ground	**Sample**	Yes	Yes	Yes	**DRILLER**	R. Earl
DATE:	Jan. 30,2003	**Screen**	-----	----	5.0'	**INSPECTOR**	T. Scott

Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS
1.0	S-1	Bkg	SM	Asphalt - Augered 4.0 ft	R=Cuttings
2.0				Gr m-fS s,$ occ. conc	No Odor
3.0				Gray medium to fine Sand, some silt occasional concrete	Dry
4.0					
5.0	S-2	Bkg	SM	Br m-fS a $ (+/- 4.0 ft.)	R=3.2'
6.0					NoOdor
7.0					Dry
8.0					
9.0	S-3	Bkg	SM	Same as above	R=3.5'
10.0					No Odor
11.0					Wet
12.0					
13.0	S-4	Bkg	SM	Same as above	R=3.8'
14.0					No Odor
15.0					Wet
16.0					
17.0				End of Boring 16.0'	
18.0					
19.0					
20.0					

Collected Groundwater sample @ 13.0 feet

Soil Boring Completed @ 16.0 feet

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NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG

Boring No. GP-10

PROJECT:	Mohawk Honda
CLIENT:	Haraden Motor Car Corp.
DRILLING CONTRACTOR:	Northeastern Environmental Technologies Corporation
PURPOSE:	Subsurface Investigation
DRILLING METHOD:	Direct Push
DRILL RIG:	Geoprobe 540U
GROUND WATER LEVEL:	+/- 8.0'
MEASURING PT.:	Ground
DATE:	Jan. 30,2003

	Soil Sample	GW Sample	Sample Method
TYPE	Macro	Bailer	Sch 40
DIAM.	2.0"	----	1.0'
Sample	Yes	Yes	Yes
Screen	-----	----	5.0'

SHEET NO.	1 of 1
JOB NO.	02.08164
M.P. ELEV.	91.63 ft
GR. ELEV.	91.52 ft
DATUM	100.00 ft
DATE START	Jan. 30, 2003
DATE FINISH	Jan. 30, 2003
DRILLER	R. Earl
INSPECTOR	T. Scott

Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS
1.0	S-1	Bkg	SM	Asphalt - Augered 4.0 ft	R=Cuttings
2.0				Br m-fS s,$	No Odor
3.0				Brown medium to fine Sand some silt	Dry
4.0					
5.0	S-2	Bkg	SM	Br fS a $ occ brk a. conc fgmts (+/- 4.0 ft.)	R=3.2'
6.0					NoOdor
7.0					Dry
8.0					Wet Bottom 0.5'
9.0	S-3	55	SM	Br fS a $ (+/- 8.0 ft.)	R=1.8'
10.0					Strg Odor
11.0					Wet - Sheen
12.0				Bk fS a $ (+/- 11.0 ft.)	
13.0	S-4	60	SM	Same as above	R=3.8'
14.0					Odor
15.0					Wet
16.0					
17.0				End of Boring 16.0'	
18.0					
19.0					
20.0					

Collected Groundwater sample @ 14.0 feet

Soil Boring Completed @ 16.0 feet

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NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG

Boring No. GP-11

PROJECT:	Mohawk Honda
CLIENT:	Haraden Motor Car Corp.
DRILLING CONTRACTOR:	Northeastern Environmental Technologies Corporation
PURPOSE:	Subsurface Investigation
DRILLING METHOD:	Direct Push
DRILL RIG:	Geoprobe 540U
GROUND WATER LEVEL:	+/- 8.0'
MEASURING PT.:	Ground
DATE:	Jan. 30,2003

	Soil Sample	GW Sample	Sample Method
TYPE	Macro	Bailer	Sch 40
DIAM.	2.0"	----	1.0'
Sample	Yes	Yes	Yes
Screen	-----	----	10.0'

SHEET NO.	1 of 1
JOB NO.	02.08164
M.P. ELEV.	99.275 ft
GR. ELEV.	99.075 ft
DATUM	100.00 ft
DATE START	Jan. 31, 2003
DATE FINISH	Jan. 31, 2003
DRILLER	R. Earl
INSPECTOR	T. Scott

Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS
1.0				Asphalt	R=Cuttings
2.0				Dk Gr c-fS t, $	No Odor
3.0		NM	SM	Dark Gray coarse to fine SAND trace Silt	Dry
4.0					
5.0				Same as above	R=Cuttings
6.0					Slight Odor
7.0		NM	SM		Dry
8.0					
9.0				Same as above (+/- 8.0 ft)	R=2.8'
10.0					Strong Odor
11.0	S-1	NM	SM		Dry
12.0					
13.0				Br Gr c-fS t, $ (+/- 12.0 ft)	R=3.8'
14.0					Strong Odor
15.0	S-2	50.4	SM		Damp
16.0					
17.0				Same as above	R=3.4'
18.0					Strong Odor
19.0	S-3	41.7	SM		Wet
20.0					

Augered 8.0 ft

Collected Groundwater sample @ 18.0 feet

Soil Boring Completed @ 20.0 feet

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APPENDIX C

WELL COMPLETION LOGS

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NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

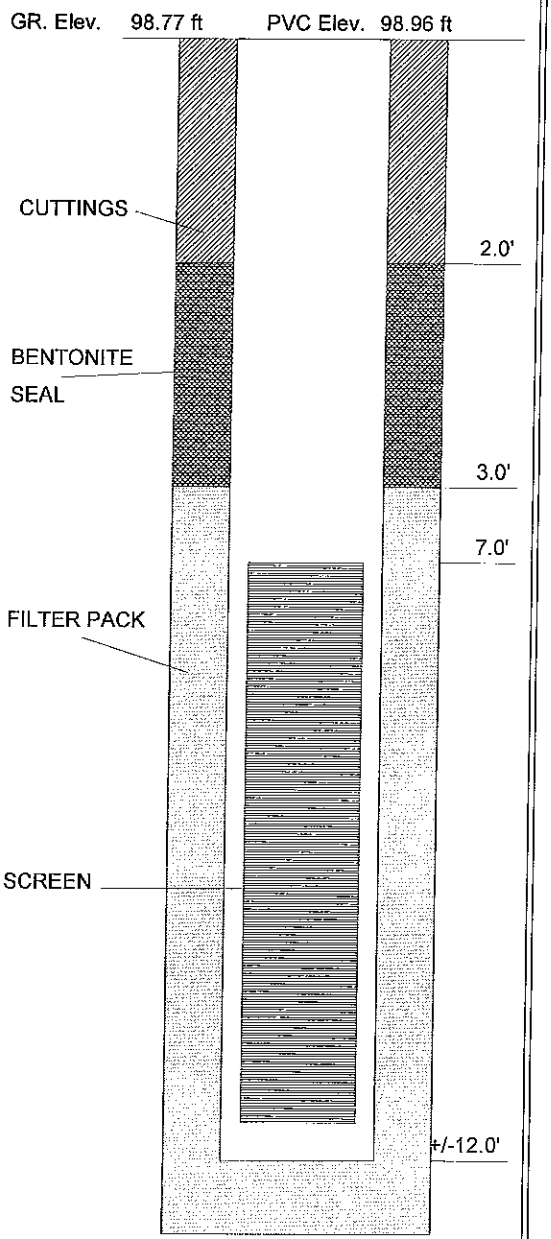
MONITORING WELL COMPLETION LOG

WELL NO. GP-2

PROJECT: Mohawk Honda
CLIENT: Haraden Motor Car Corp.
PROJECT NO. 02.08164

DATE DRILLED: January 30, 2003
DATE DEVELOPED: January 30, 2003

WELL CONSTRUCTION DETAIL



NOT TO SCALE

INSPECTOR: T. Scott
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corp.

TYPE OF WELL: Monitoring Well
STATIC WATER LEVEL: 6.23 ft — **DATE:** February 5, 2003
MEASURING POINT: Top of PVC
TOTAL DEPTH OF WELL: +/- 12.0 ft
TOTAL DEPTH OF BORING: 12.0 ft

DRILLING METHOD:
TYPE: Direct Push — **DIAMETER:** 2.0"
CASING: MACRO

SAMPLING METHOD:
TYPE: MACRO — **DIAMETER:** 2.0"
WEIGHT: NA — **FALL:** NA
INTERVAL: Every 4.0 ft

RISER PIPE LEFT IN PLACE:
MATERIAL Sch 40PVC — **DIAMETER:** 1.0"
LENGTH: +/- 7.0 ft — **JOINT TYPE** Flush Thread

SCREEN:
MATERIAL Sch 40PVC — **DIAMETER:** 1.0"
SLOT SIZE: Slot 10 (0.010) — **INTERVAL:** +/- 7.0 - 12.0'
STRATEGIC UNIT SCREENED: Sand and Silt

FILTER PACK:
TYPE: Sand
GRADE: #1
AMOUNT: 25lbs — **INTERVAL:** 3.0 - 12.0'

SEAL (S):
TYPE: Bentonite — **INTERVAL:** 2.0 - 3.0'
TYPE: Cuttings — **INTERVAL:** 0 - 2.0'
TYPE: — **INTERVAL:**

NOTES:

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NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

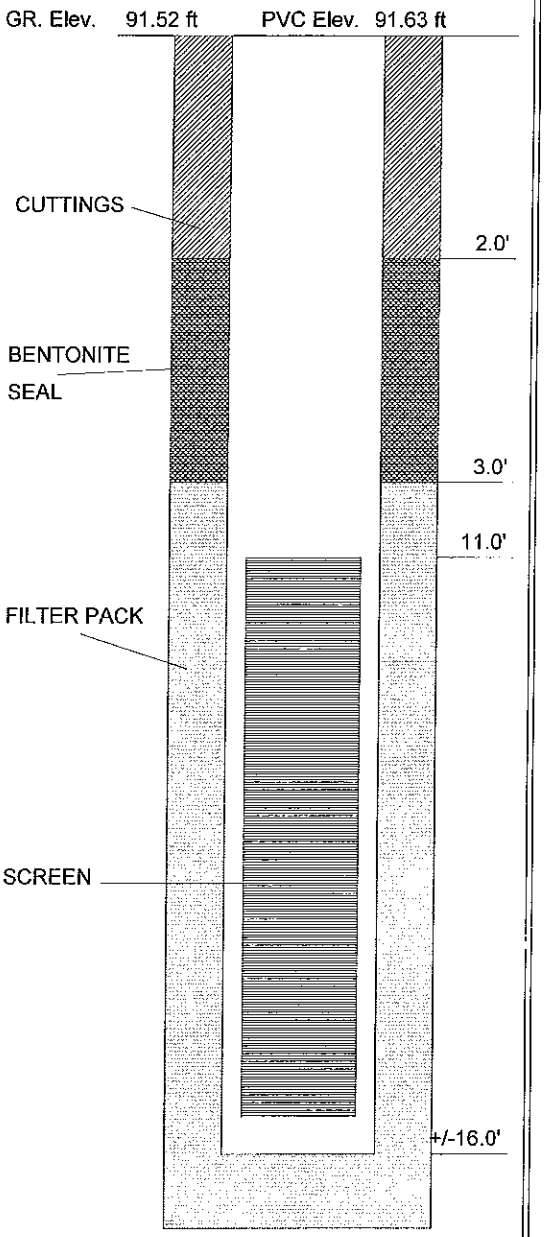
MONITORING WELL COMPLETION LOG

WELL NO. GP-10

PROJECT: Mohawk Honda
CLIENT: Haraden Motor Car Corp.
PROJECT NO. 02.08164

DATE DRILLED: January 30, 2003
DATE DEVELOPED: January 30, 2003

WELL CONSTRUCTION DETAIL



NOT TO SCALE

INSPECTOR: T. Scott
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corp.

TYPE OF WELL: Monitoring Well
STATIC WATER LEVEL: 12.37 ft **DATE:** February 5, 2003
MEASURING POINT: Top of PVC
TOTAL DEPTH OF WELL: +/- 16.0 ft
TOTAL DEPTH OF BORING: 16.0 ft

DRILLING METHOD:
TYPE: Direct Push **DIAMETER:** 2.0"
CASING: MACRO

SAMPLING METHOD:
TYPE: MACRO **DIAMETER:** 2.0"
WEIGHT: NA **FALL:** NA
INTERVAL: Every 4.0 ft

RISER PIPE LEFT IN PLACE:
MATERIAL Sch 40PVC **DIAMETER:** 1.0"
LENGTH: +/- 11.0 ft **JOINT TYPE** Flush Thread

SCREEN:
MATERIAL Sch 40PVC **DIAMETER:** 1.0"
SLOT SIZE: Slot 10 (0.010) **INTERVAL:** +/- 11.0 - 16.0'
STRATEGIC UNIT SCREENED: Sand and Silt

FILTER PACK:
TYPE: Sand
GRADE: #1
AMOUNT: 25lbs **INTERVAL:** 3.0 - 16.0'

SEAL (S):
TYPE: Bentonite **INTERVAL:** 2.0 - 3.0'
TYPE: Cuttings **INTERVAL:** 0 - 2.0'
TYPE: **INTERVAL:**

NOTES:

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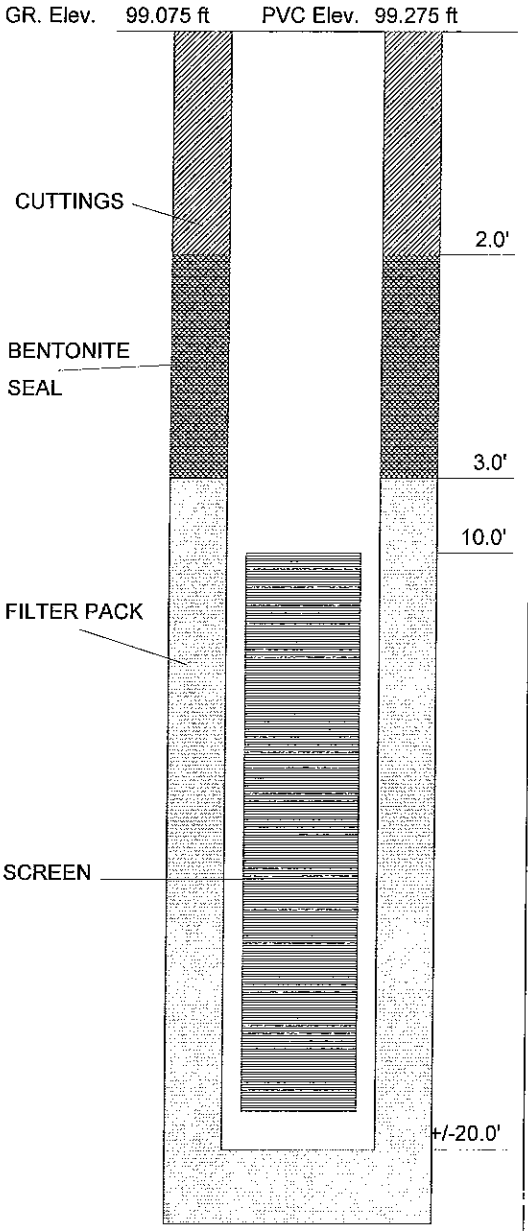
MONITORING WELL COMPLETION LOG

WELL NO. GP-11

PROJECT: Mohawk Honda
CLIENT: Haraden Motor Car Corp.
PROJECT NO. 02.08164

DATE DRILLED: January 31, 2003
DATE DEVELOPED: January 31, 2003

WELL CONSTRUCTION DETAIL



NOT TO SCALE

INSPECTOR: T. Scott
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corp.

TYPE OF WELL: Monitoring Well
STATIC WATER LEVEL: 11.05 ft **DATE:** February 5, 2003
MEASURING POINT: Top of PVC
TOTAL DEPTH OF WELL: +/- 20.0 ft
TOTAL DEPTH OF BORING: 20.0 ft

DRILLING METHOD:
TYPE: Direct Push **DIAMETER:** 2.0"
CASING: MACRO

SAMPLING METHOD:
TYPE: MACRO **DIAMETER:** 2.0"
WEIGHT: NA **FALL:** NA
INTERVAL: Every 4.0 ft

RISER PIPE LEFT IN PLACE:
MATERIAL Sch 40PVC **DIAMETER:** 1.0"
LENGTH: +/- 10.0 ft **JOINT TYPE** Flush Thread

SCREEN:
MATERIAL Sch 40PVC **DIAMETER:** 1.0"
SLOT SIZE: Slot 10 (0.010) **INTERVAL:** +/- 10.0 - 20.0'
STRATEGIC UNIT SCREENED: Sand and Silt

FILTER PACK:
TYPE: Sand
GRADE: #1
AMOUNT: 25lbs **INTERVAL:** 3.0 - 20.0'

SEAL (S):
TYPE: Bentonite **INTERVAL:** 2.0 - 3.0'
TYPE: Cuttings **INTERVAL:** 0 - 2.0'
TYPE: **INTERVAL:**

NOTES:

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APPENDIX D

EM-61 SURVEY RESULTS

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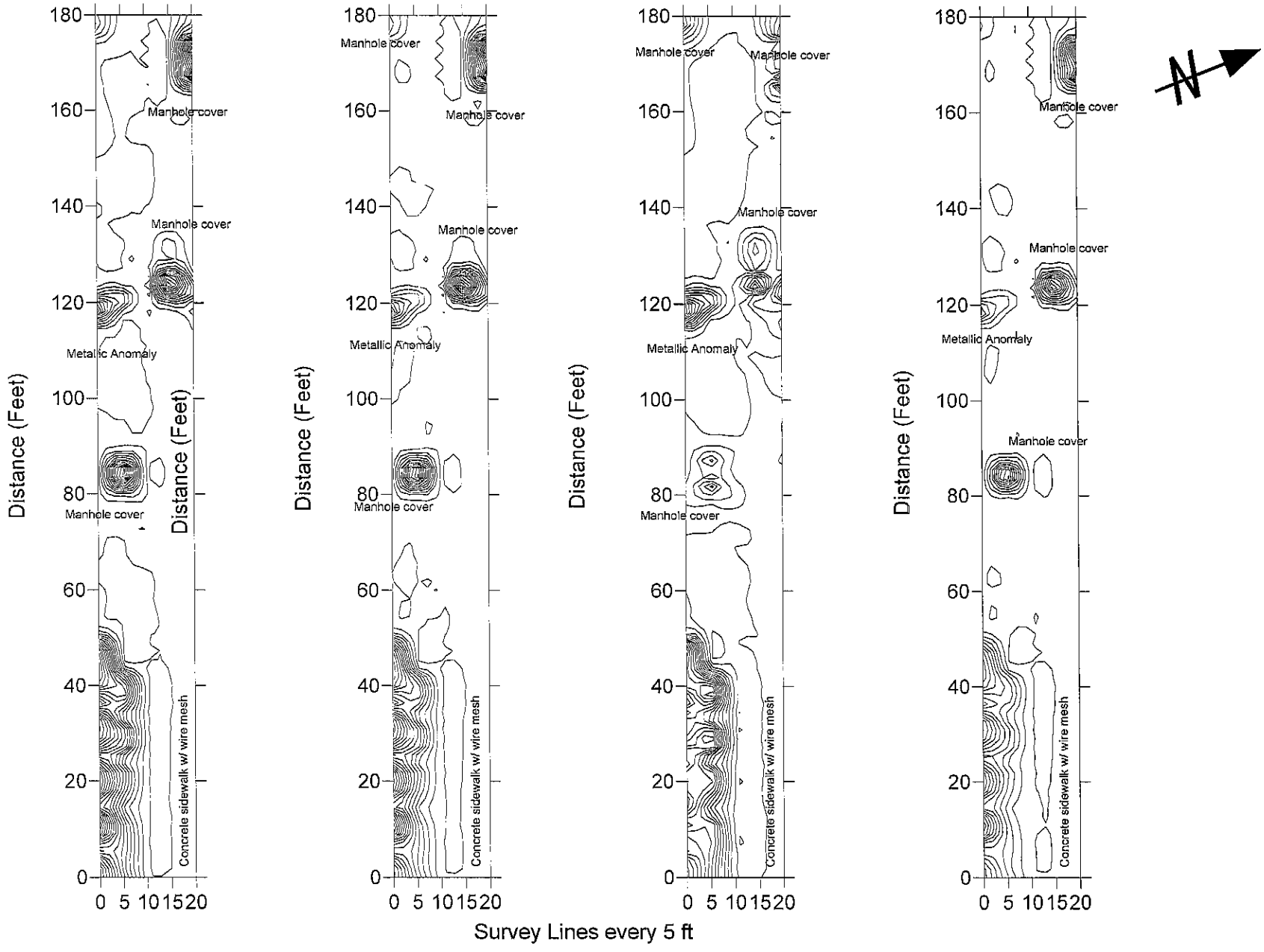
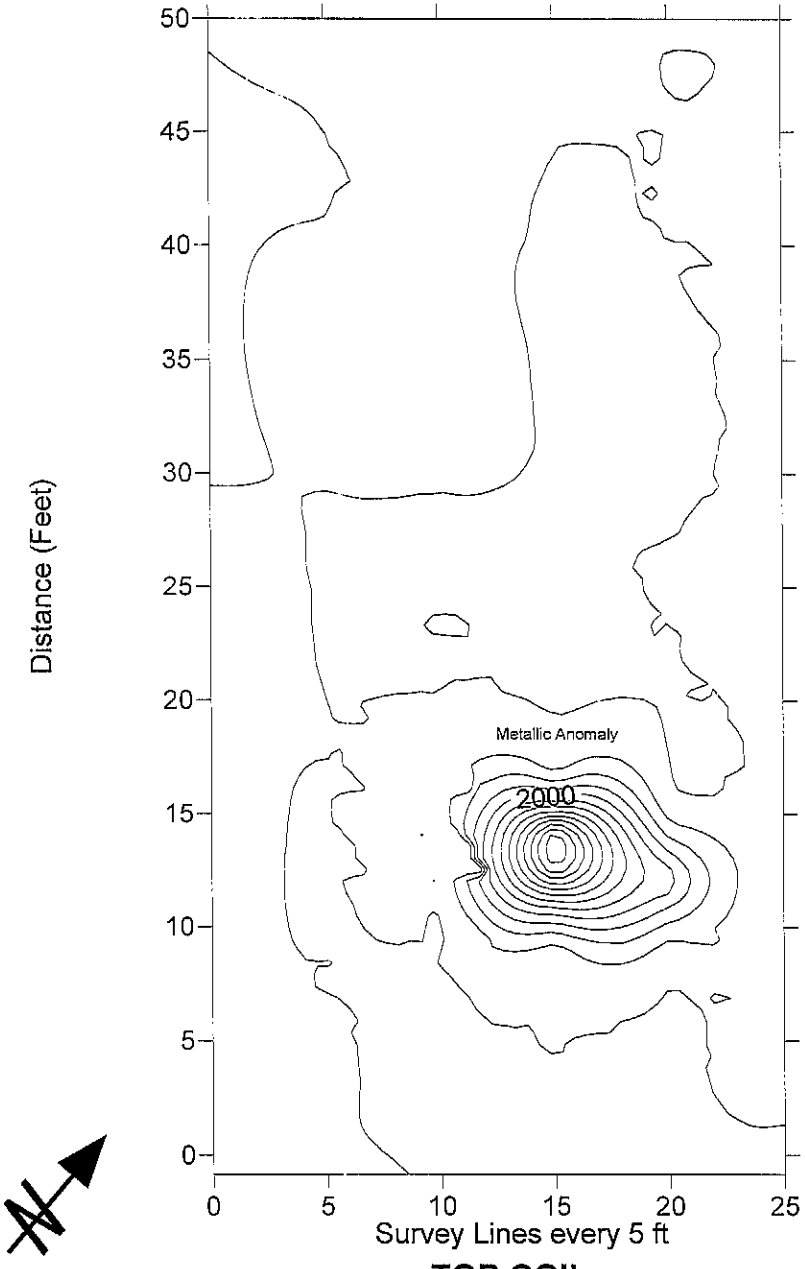
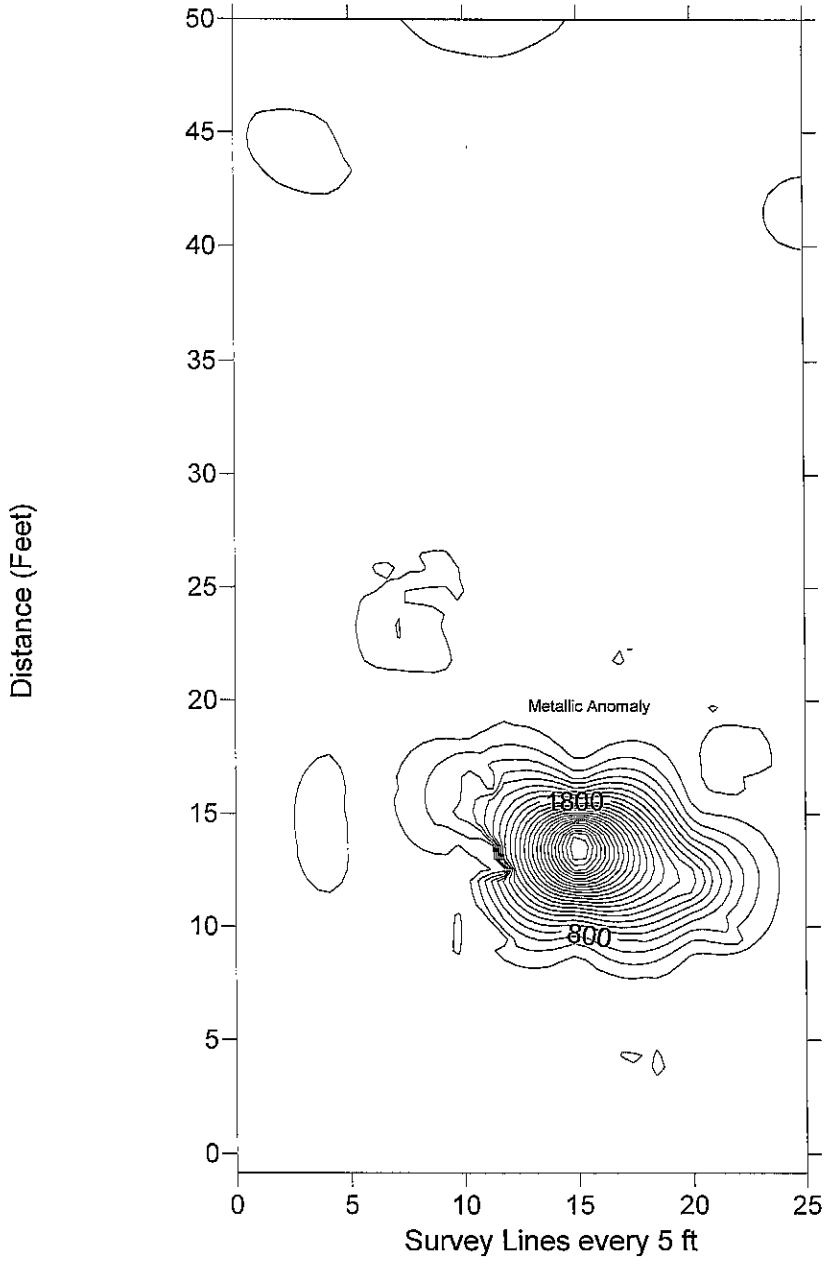


Figure: **EM-61 GRID A** **Top and Bottom Coil** **Differential and Differential "N"**	Location: **Mohawk Honda** **728-756 State St. & 725-727 Albany St.** **Schenectady, N.Y.**	**NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES CORP.**
Date: January 23, 2003	Scale: Map not Scaled	Project #: 02.08164

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TOP COIL



BOTTOM COIL

Figure: **EM-61 GRID B**
Top and Bottom Coil

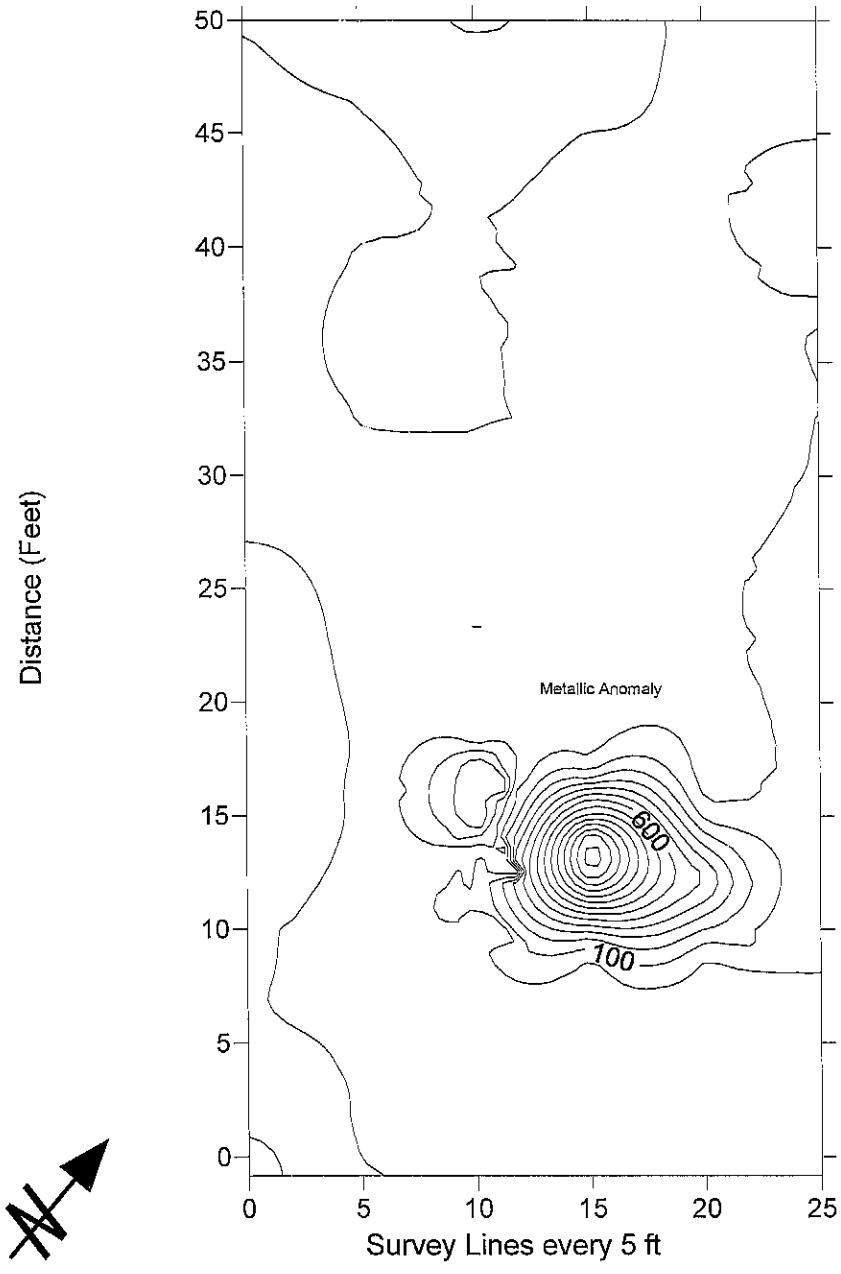
Location: **Mohawk Honda**
728-756 State St. & 725-727 Albany St.
Schenectady, N.Y.

Date: January 23, 2003

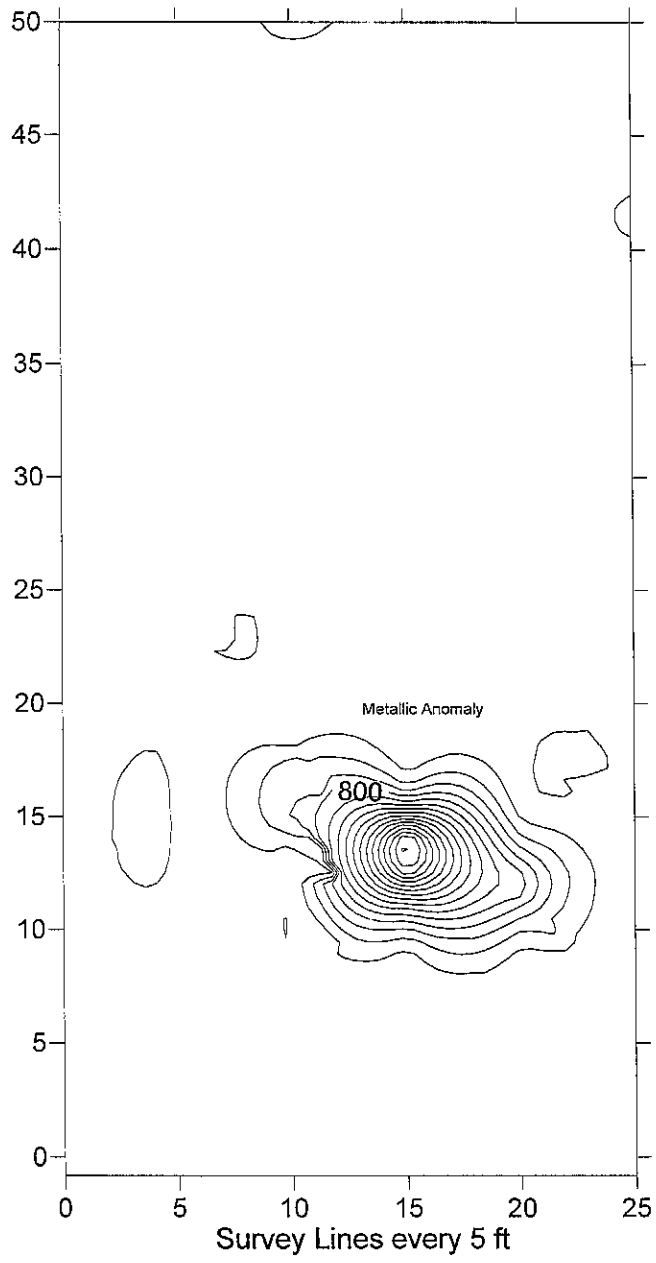
Scale: Map not Scaled

Project #: 02.08164

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DIFFERENTIAL



DIFFERENTIAL "N"

Figure:
EM-61 GRID B
Differential and Differential "N"

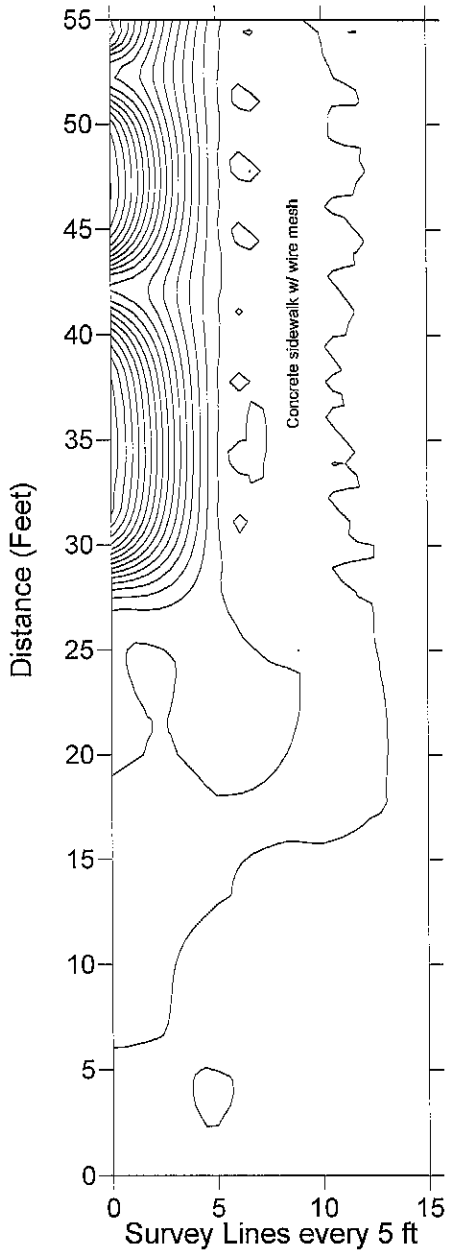
Location: **Mohawk Honda**
728-756 State St. & 725-727 Albany St.
Schenectady, N.Y.

Date: January 23, 2003

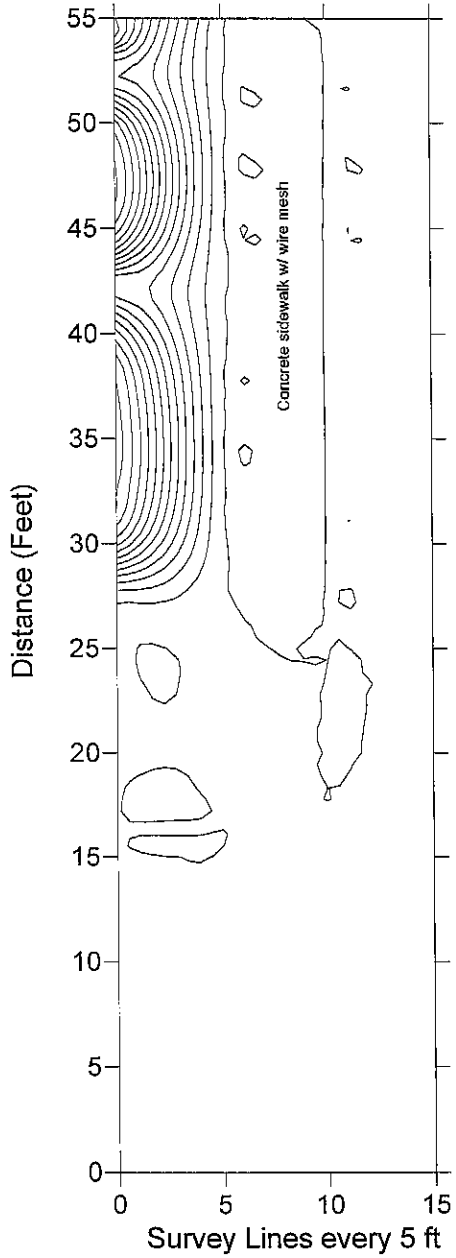
Scale: Map not Scaled

Project #: 02.08164

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TOP COIL



BOTTOM COIL

Figure: **EM-61 GRID C Top and Bottom Coil**

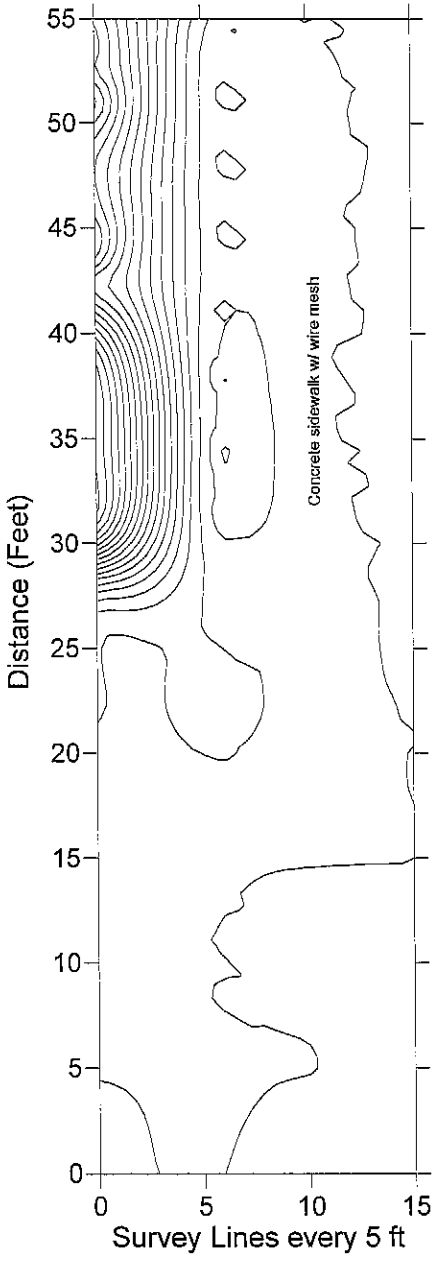
Location: **Mohawk Honda 728-756 State St. & 725-727 Albany St. Schenectady, N.Y.**

Date: January 23, 2003

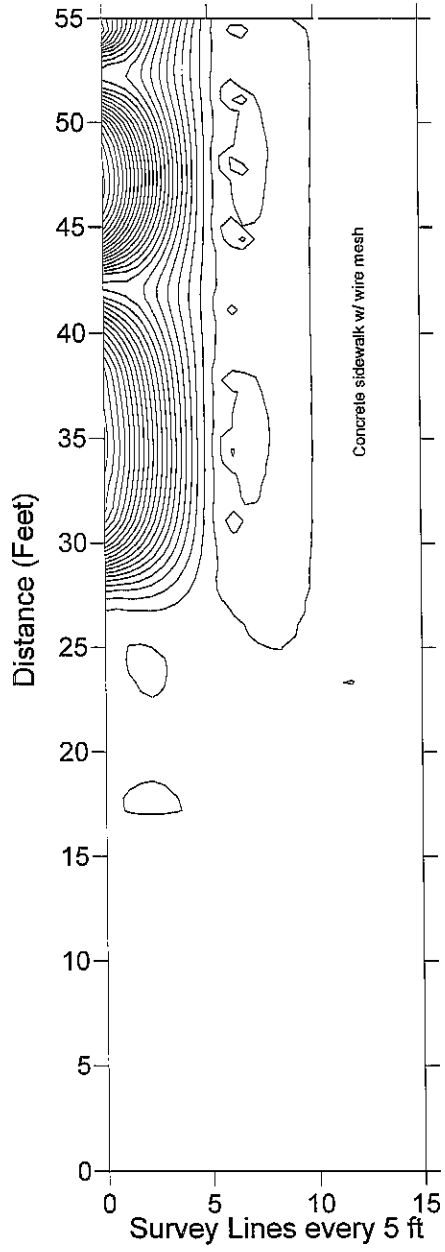
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Project #: 02.08164

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DIFFERENTIAL



DIFFERENTIAL "N"

Figure:
EM-61 GRID C
Differential and Differential "N"

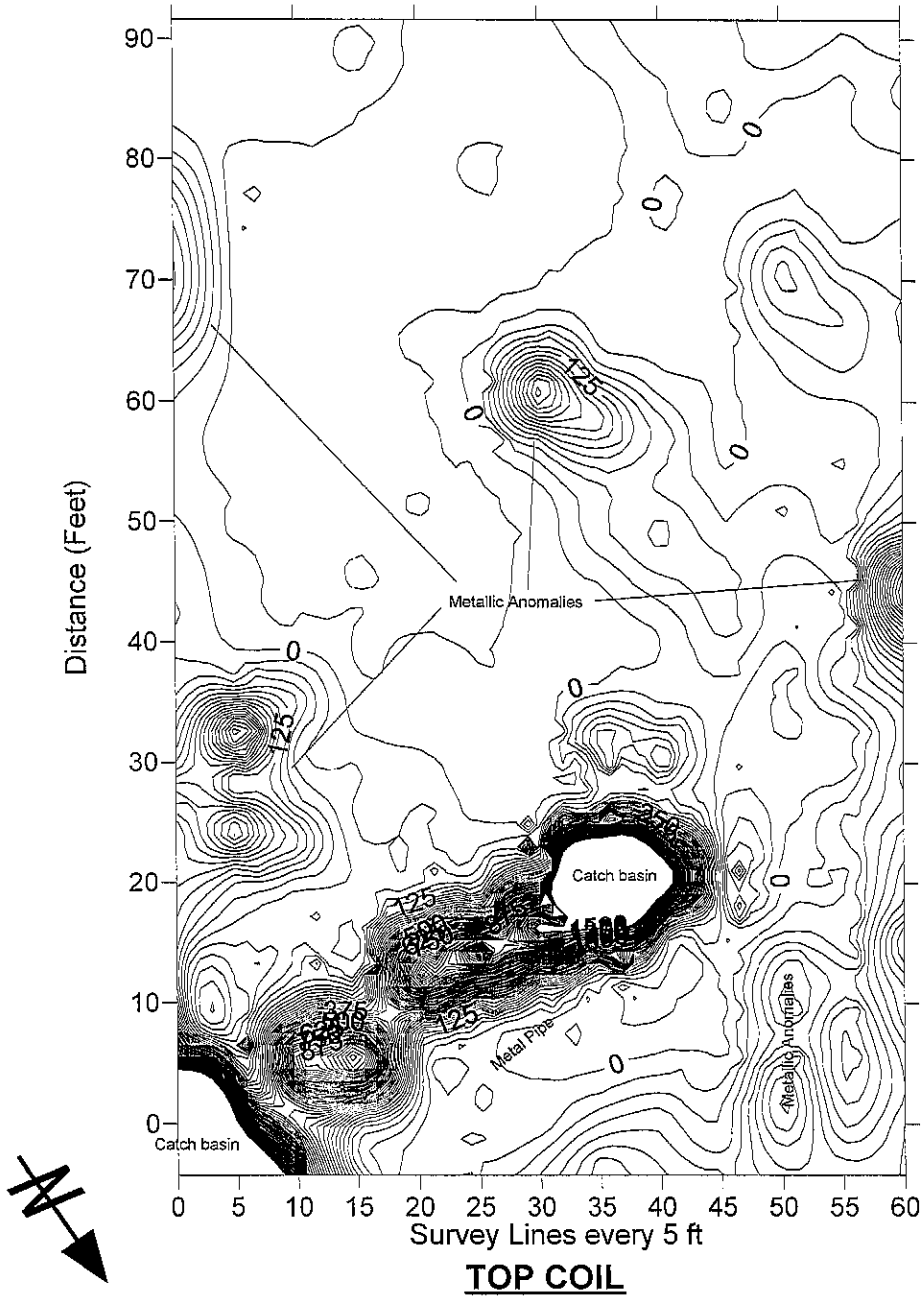
Location: **Mohawk Honda**
728-756 State St. & 725-727 Albany St.
Schenectady, N.Y.

Date: January 23, 2003

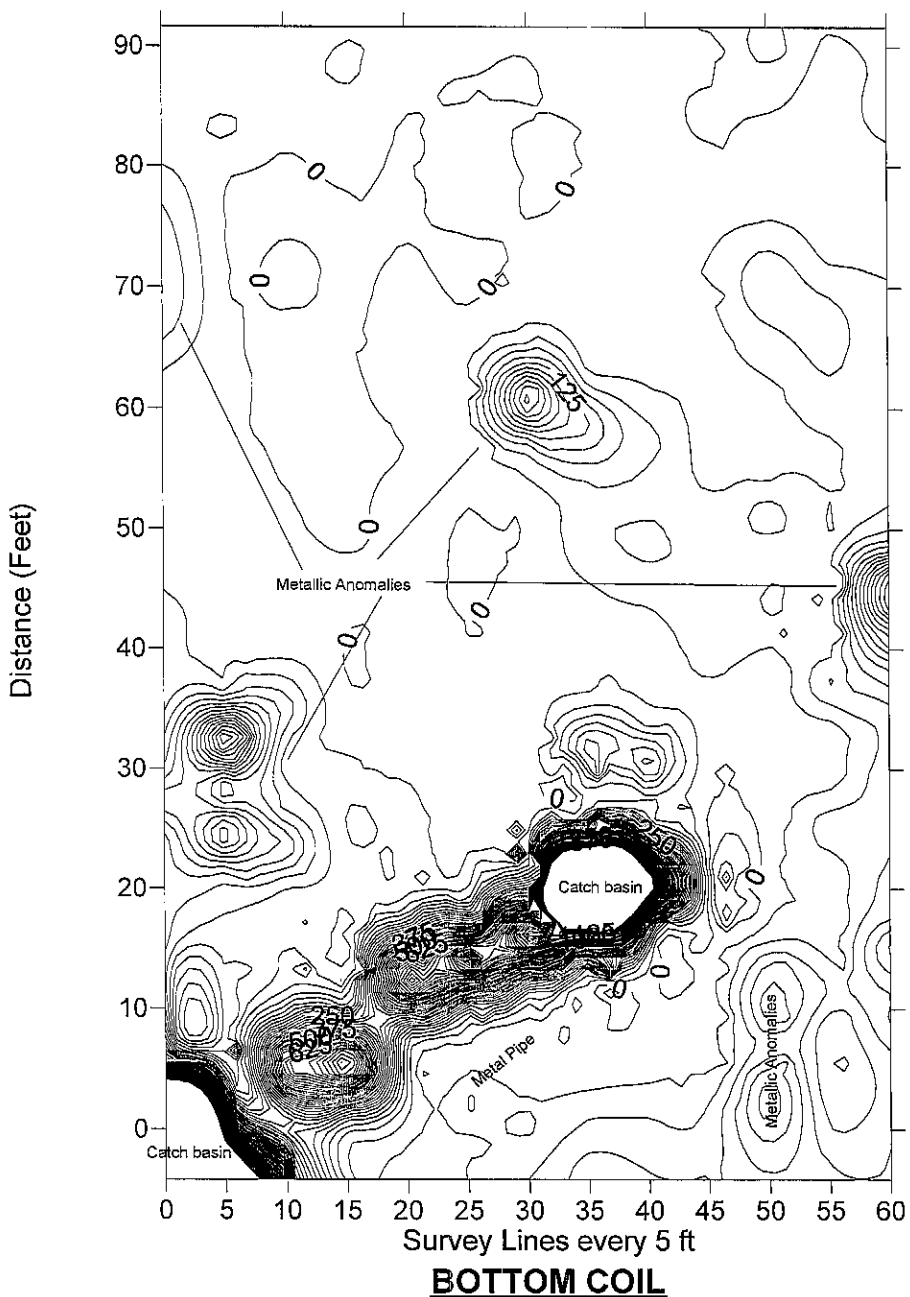
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Project #: 02.08164

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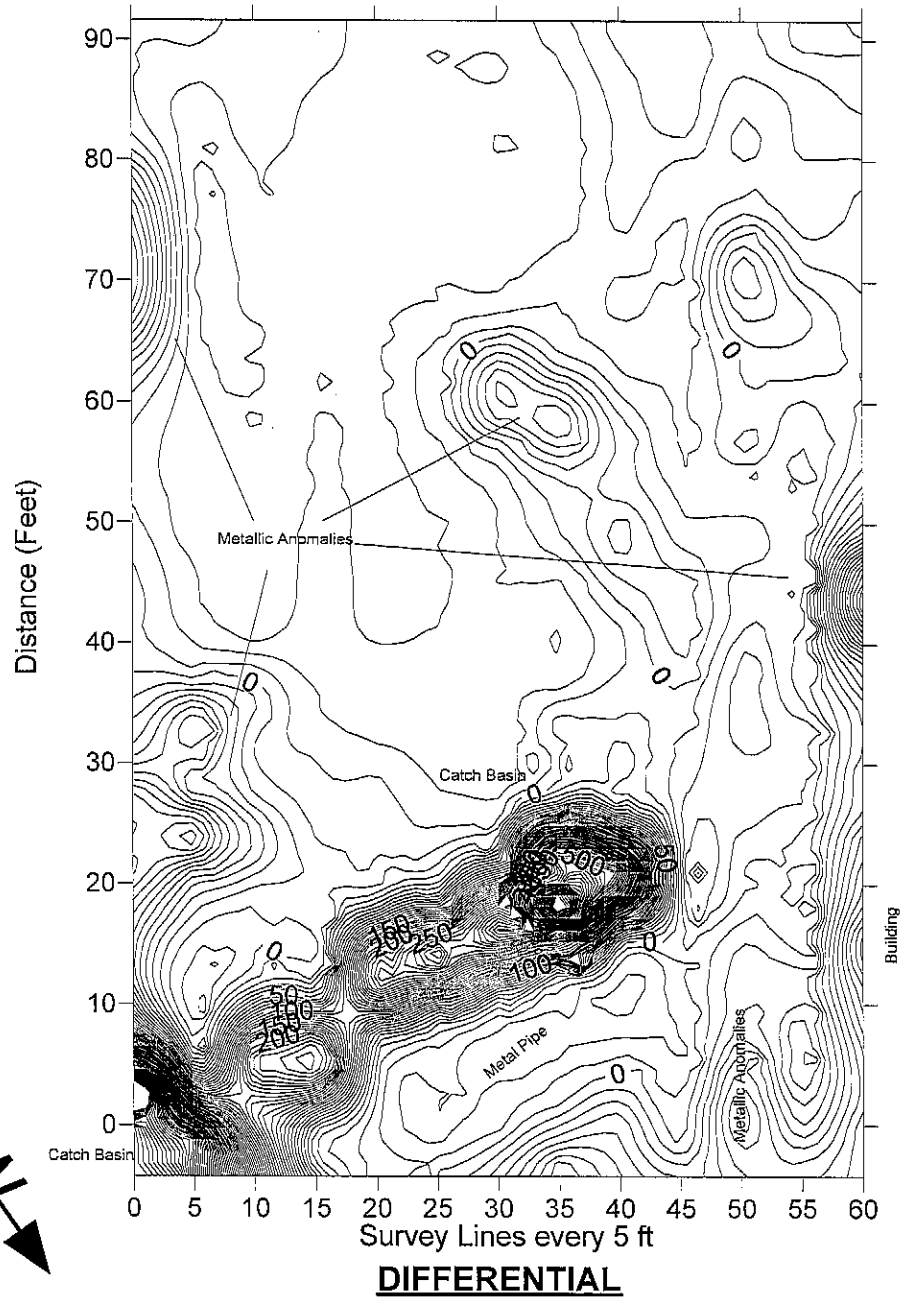
TOP COIL



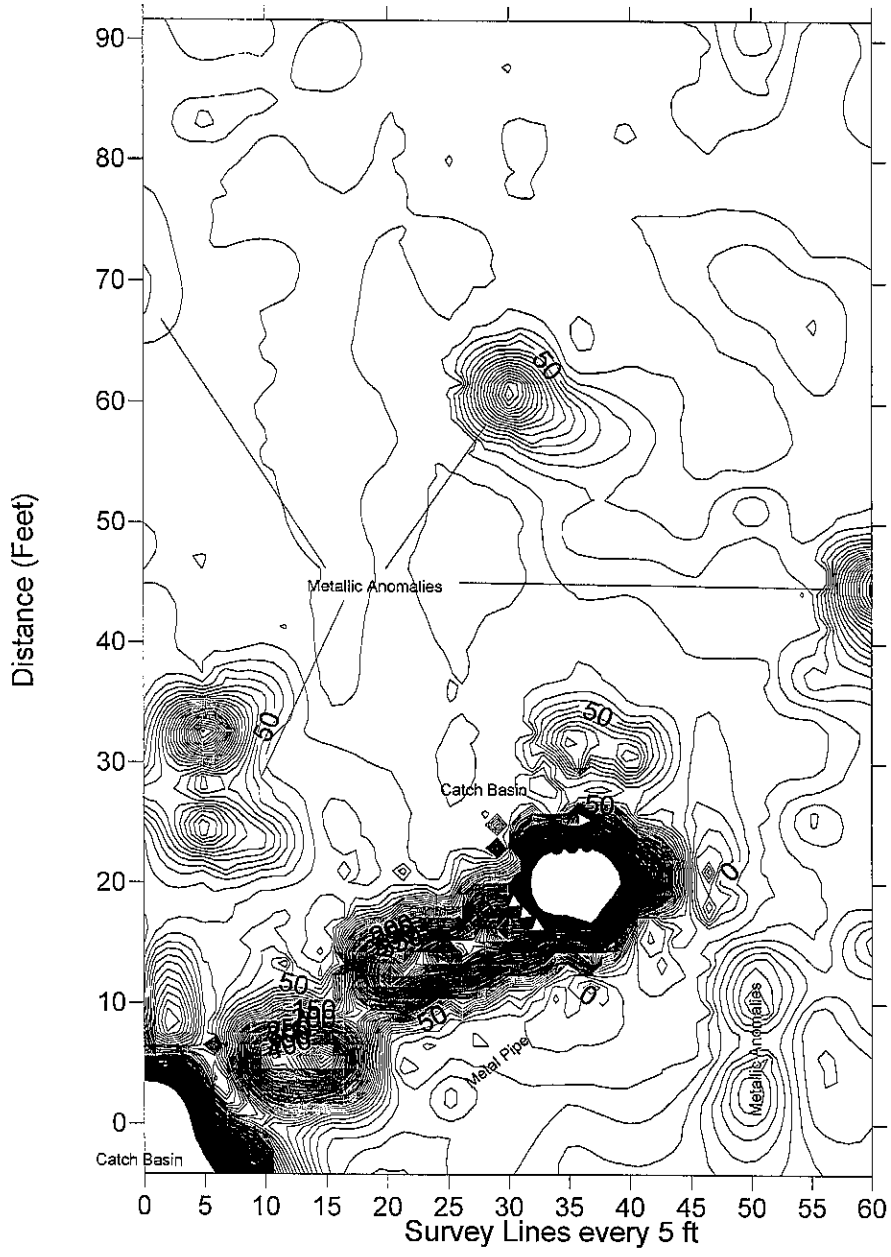
BOTTOM COIL

Figure: **EM-61 GRID E Top and Bottom Coil**	Location: **Mohawk Honda 728-756 State St. & 725-727 Albany St. Schenectady, N.Y.**	
Date: January 23, 2003	Scale: Map not Scaled	Project #: 02.08164

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DIFFERENTIAL

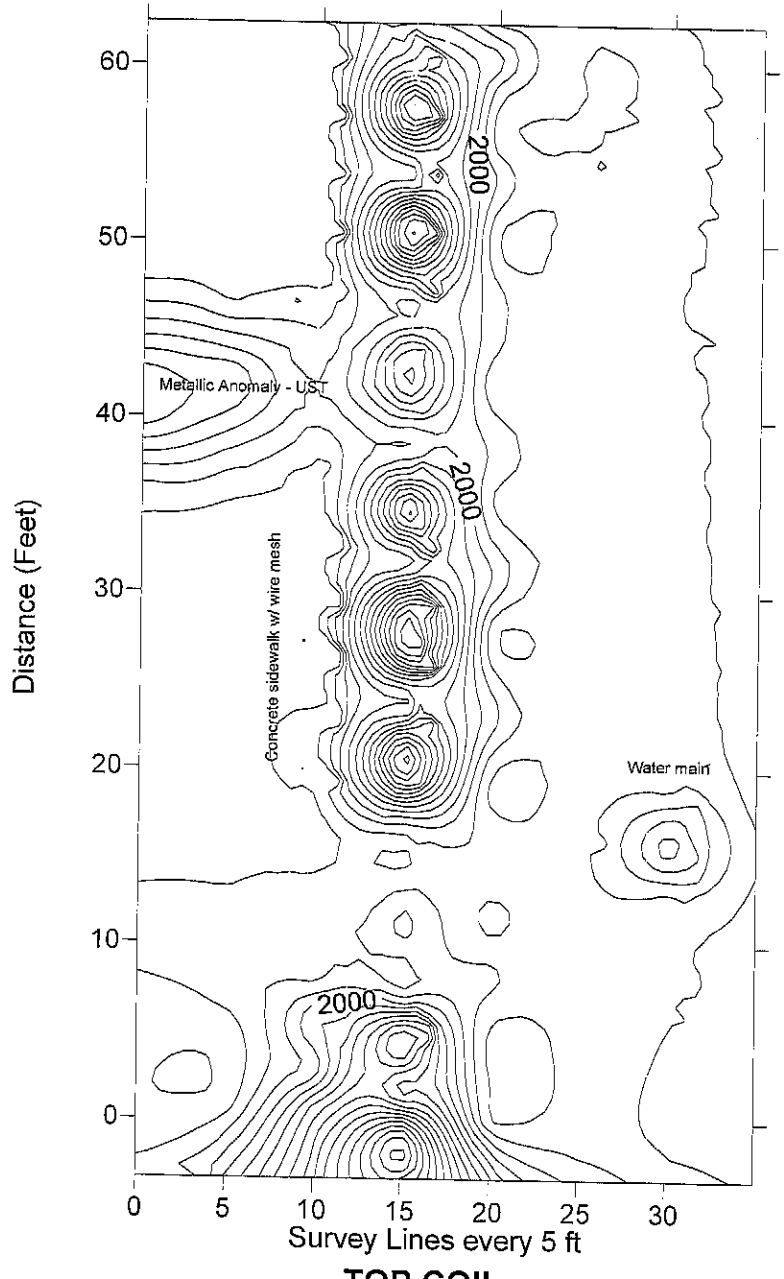


DIFFERENTIAL "N"

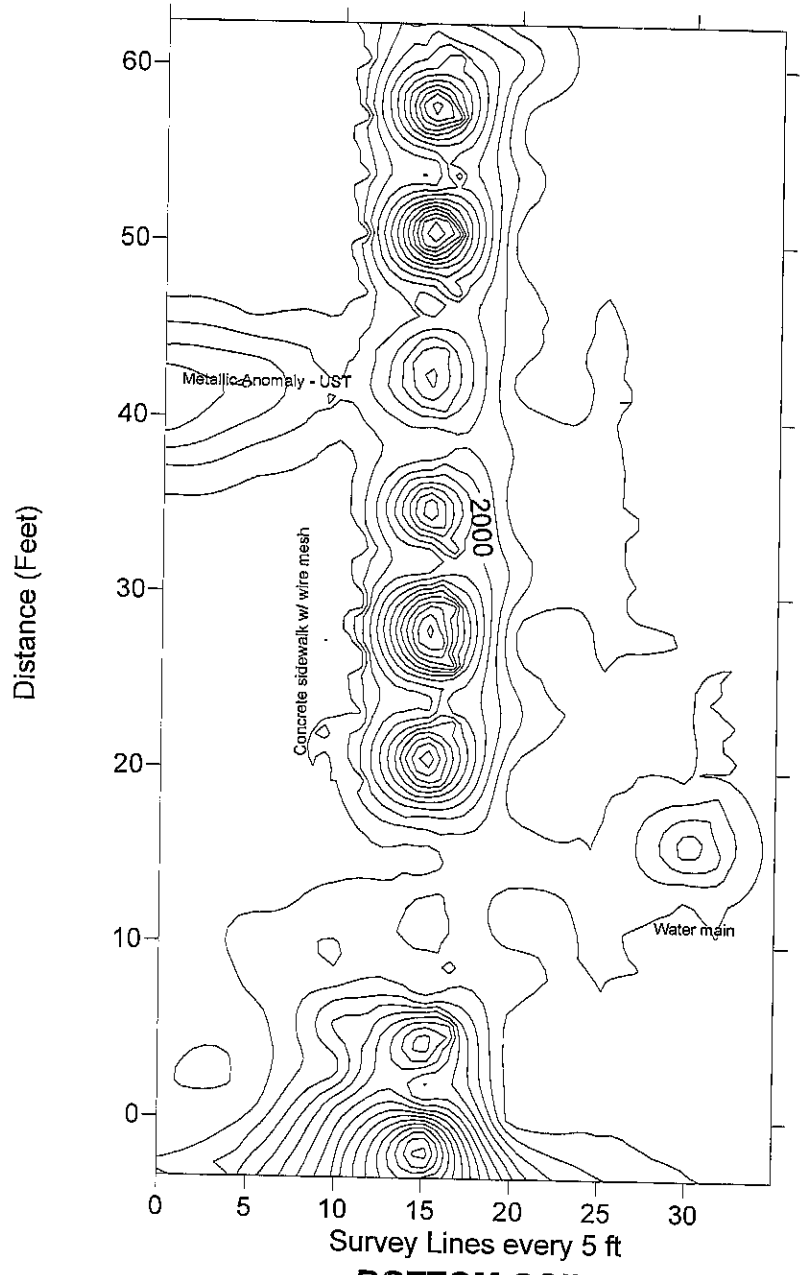
Figure: **EM-61 GRID E Differential and Differential "N"**	Location: **Mohawk Honda 728-756 State St. & 725-727 Albany St. Schenectady, N.Y.**	
Date: January 23, 2003	Scale: Map not Scaled	Project #: 02.08164

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TOP COIL



BOTTOM COIL

Figure: **EM-61 GRID G**
Top and Bottom Coil

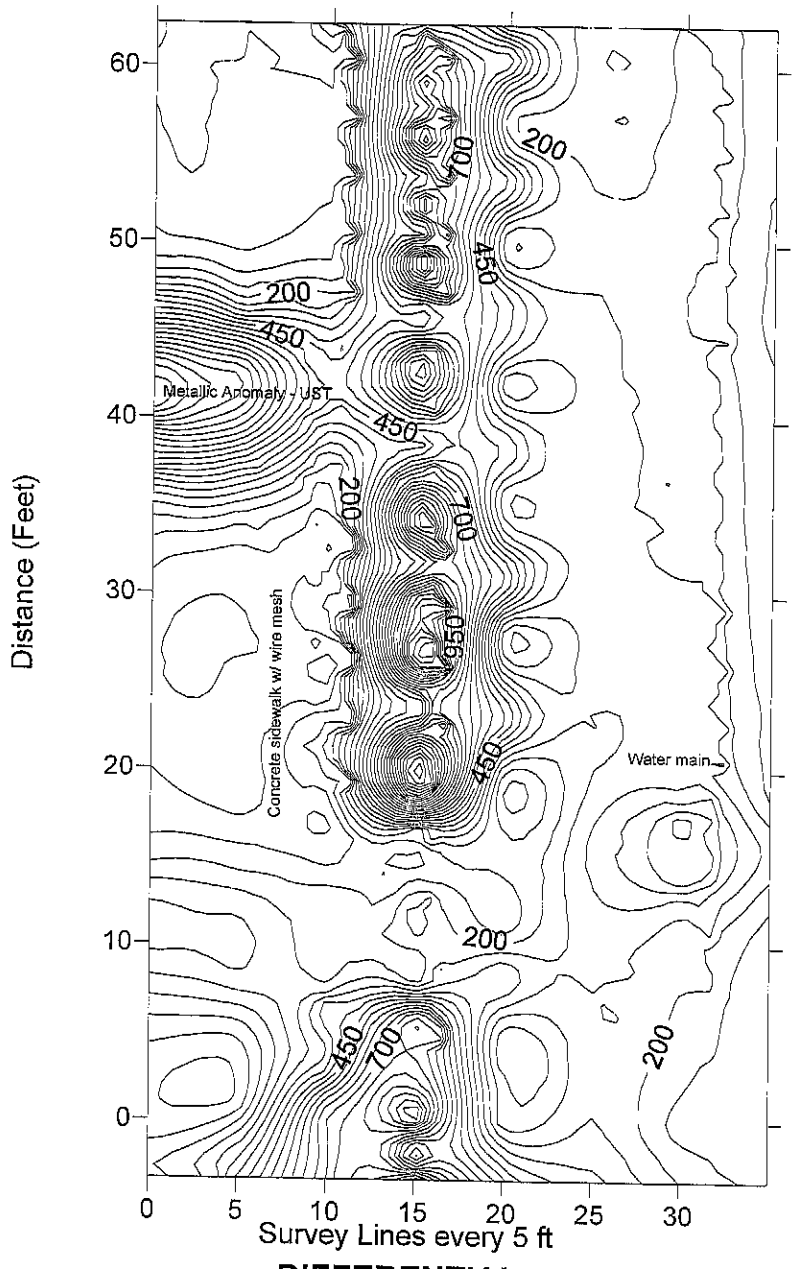
Location: **Mohawk Honda**
728-756 State St. & 725-727 Albany St.
Schenectady, N.Y.

Date: January 23, 2003

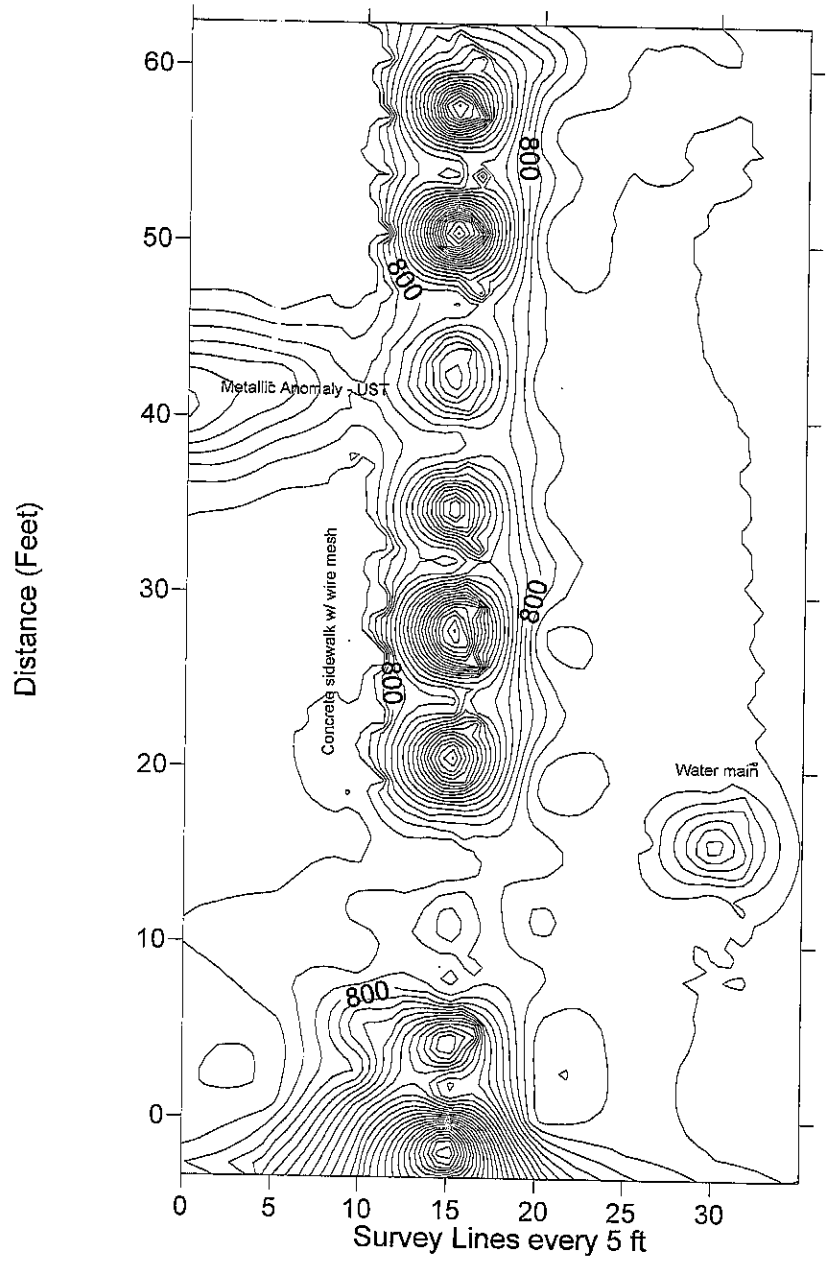
Scale: Map not Scaled

Project #: 02.08164

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DIFFERENTIAL



DIFFERENTIAL "N"

Figure:
EM-61 GRID G
Differential and Differential "N"

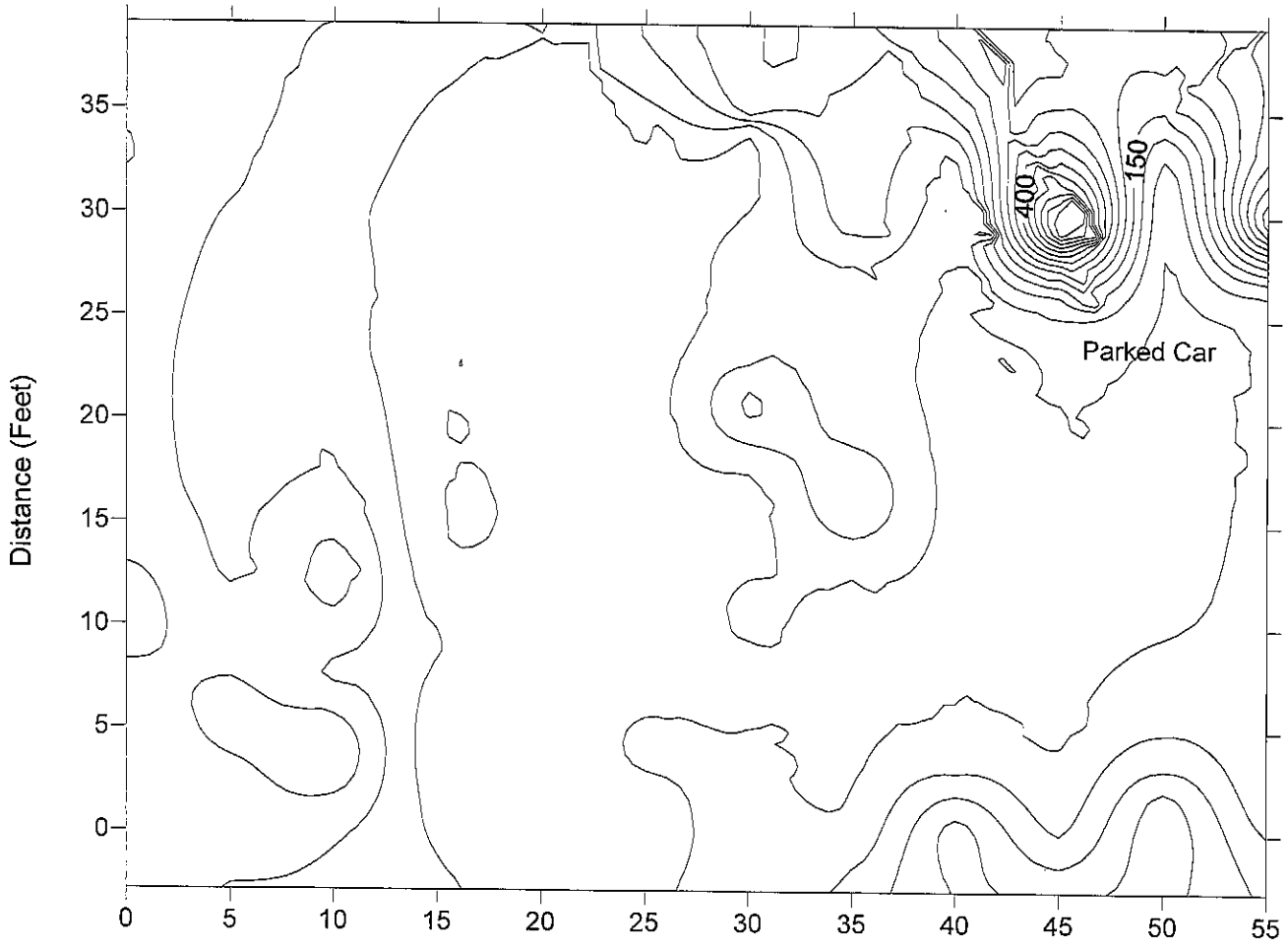
Location: **Mohawk Honda**
728-756 State St. & 725-727 Albany St.
Schenectady, N.Y.

Date: January 23, 2003

Scale: Map not Scaled

Project #: 02.08164

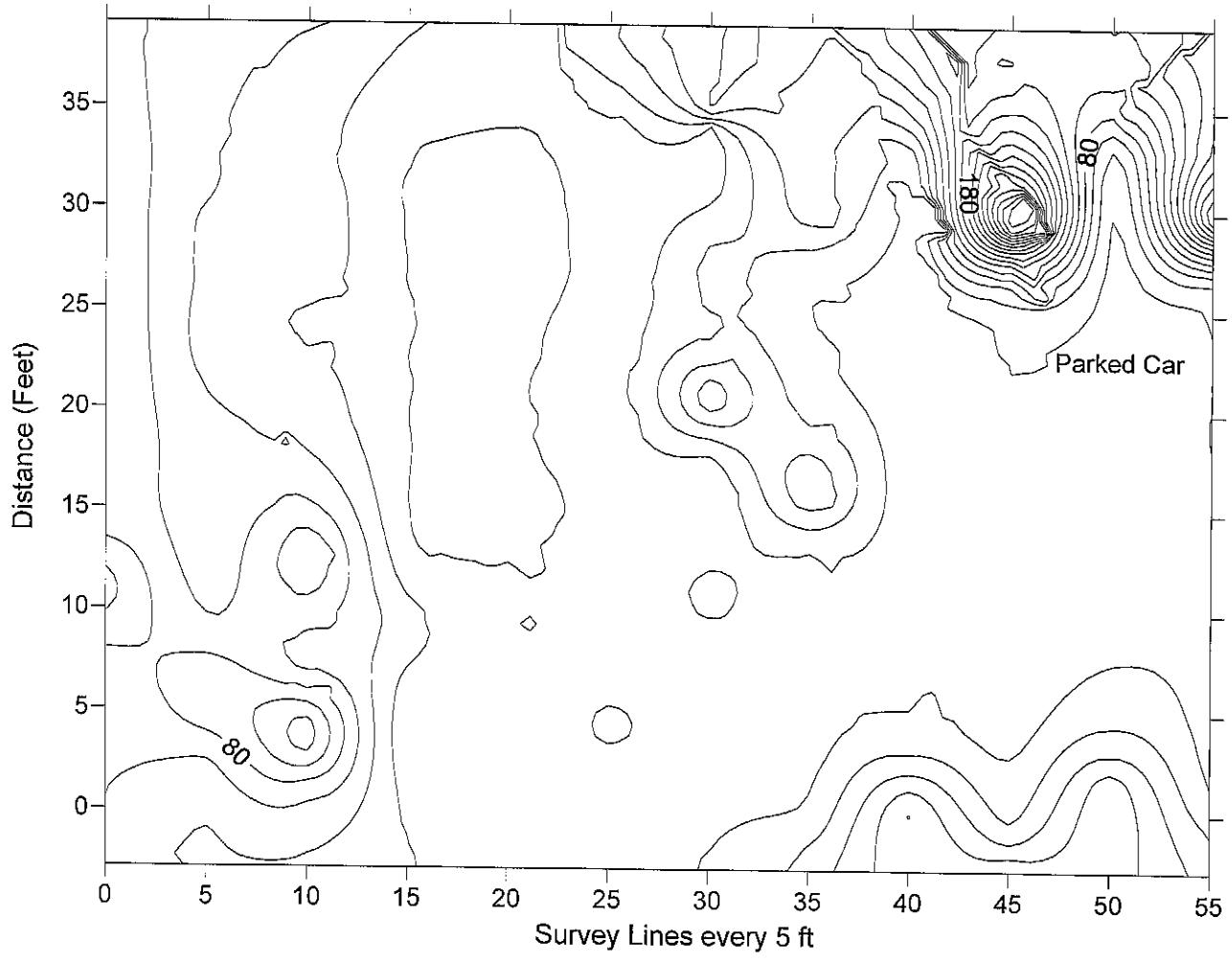
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TOP COIL

Figure: **EM-61 GRID H Top Coil**	Location: **Mohawk Honda 728-756 State St. & 725-727 Albany St. Schenectady, N.Y.**	
Date: January 23, 2003	Scale: Map not Scaled	Project #: 02.08164

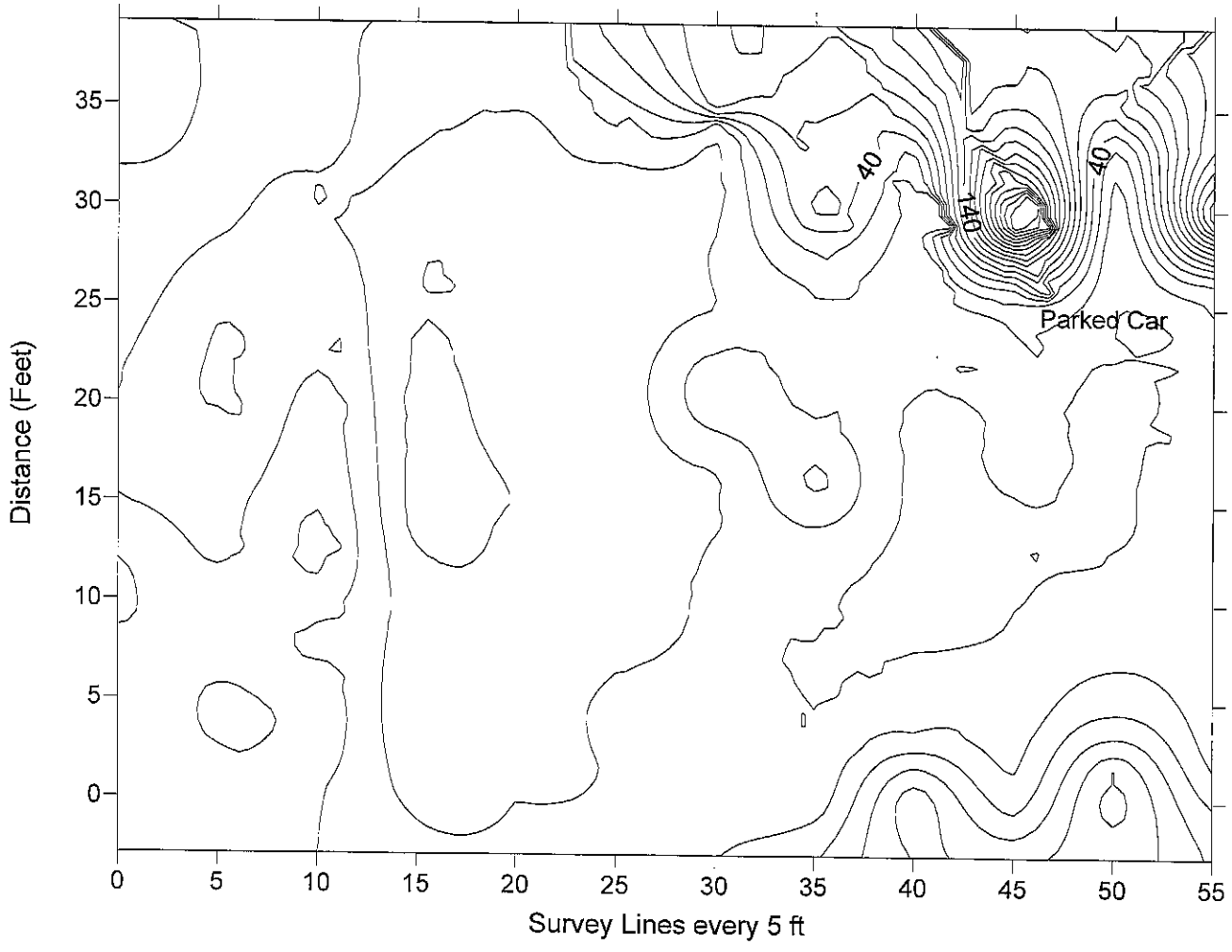
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BOTTOM COIL

Figure: **EM-61 GRID H Bottom Coil**	Location: **Mohawk Honda 728-756 State St. & 725-727 Albany St. Schenectady, N.Y.**	
Date: January 23, 2003	Scale: Map not Scaled	Project #: 02.08164

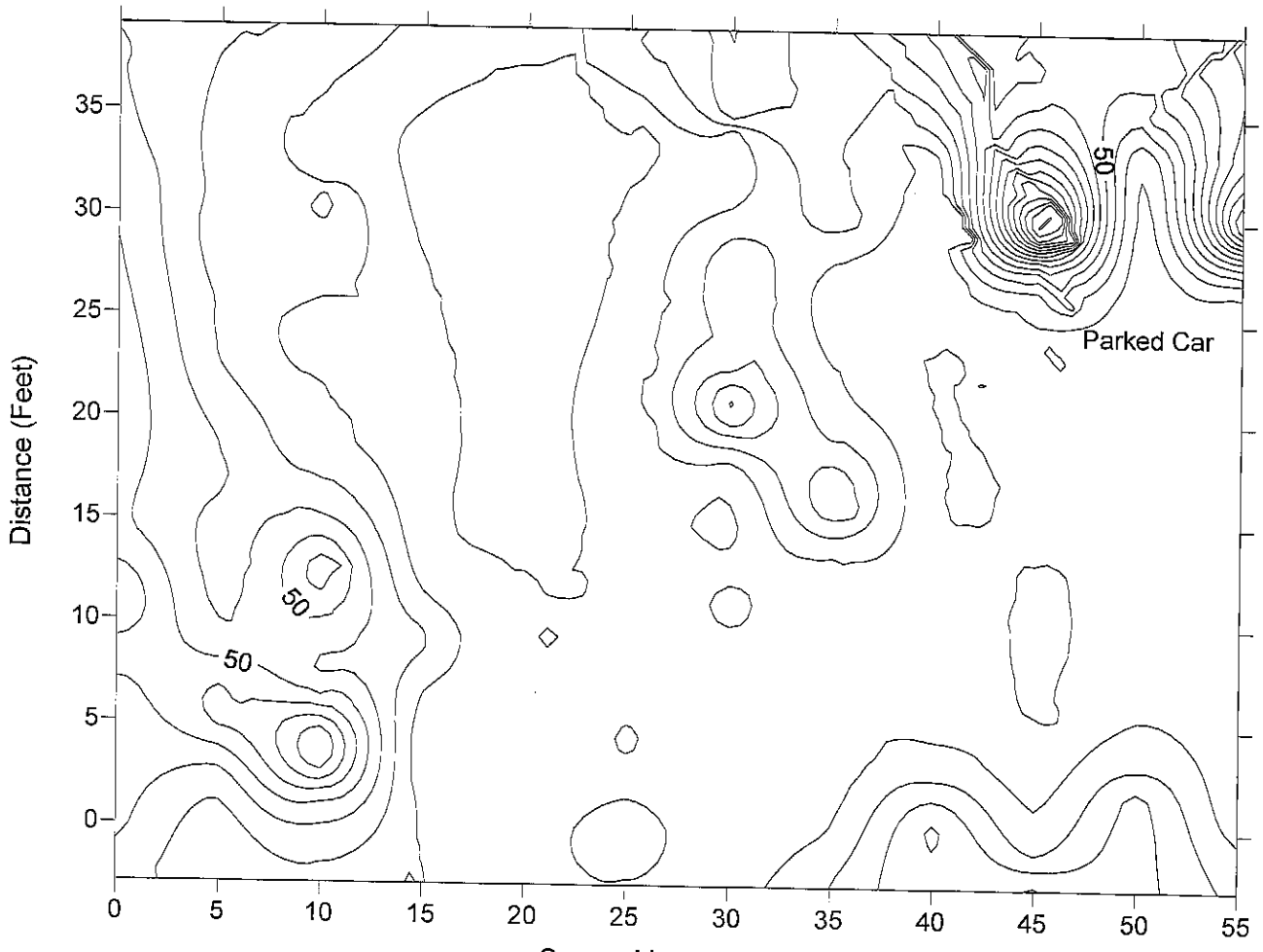
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DIFFERENTIAL

Figure: **EM-61 GRID H Differential**	Location: **Mohawk Honda 728-756 State St. & 725-727 Albany St. Schenectady, N.Y.**	
Date: January 23, 2003	Scale: Map not Scaled	Project #: 02.08164

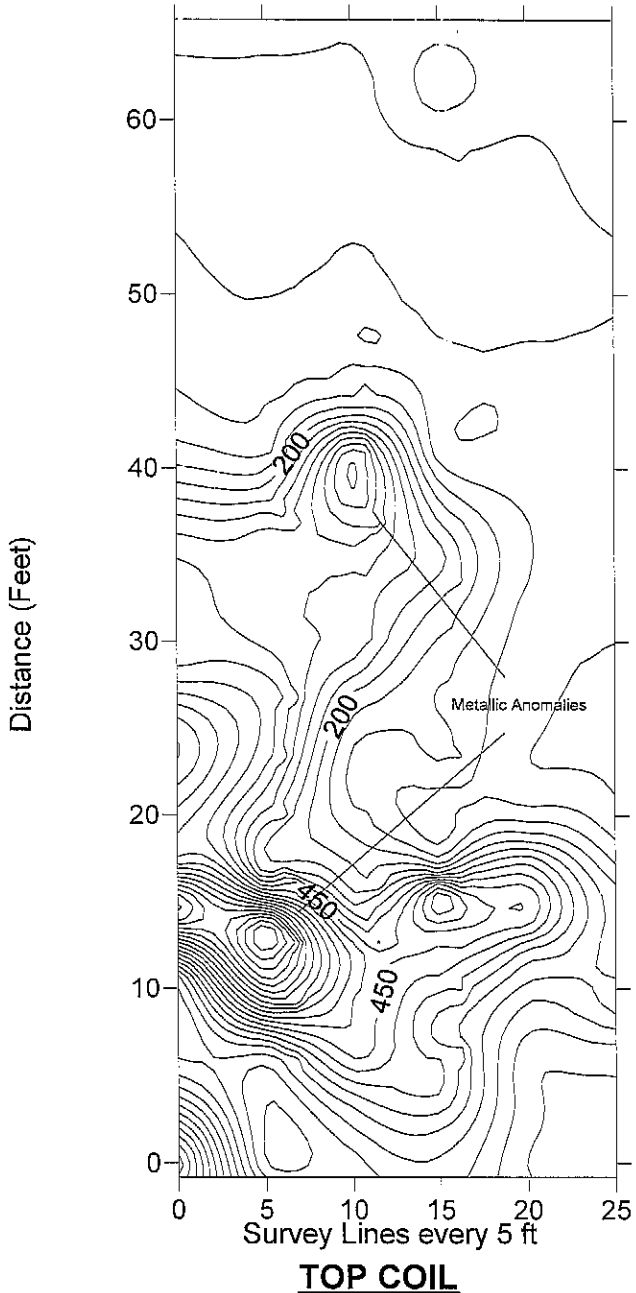
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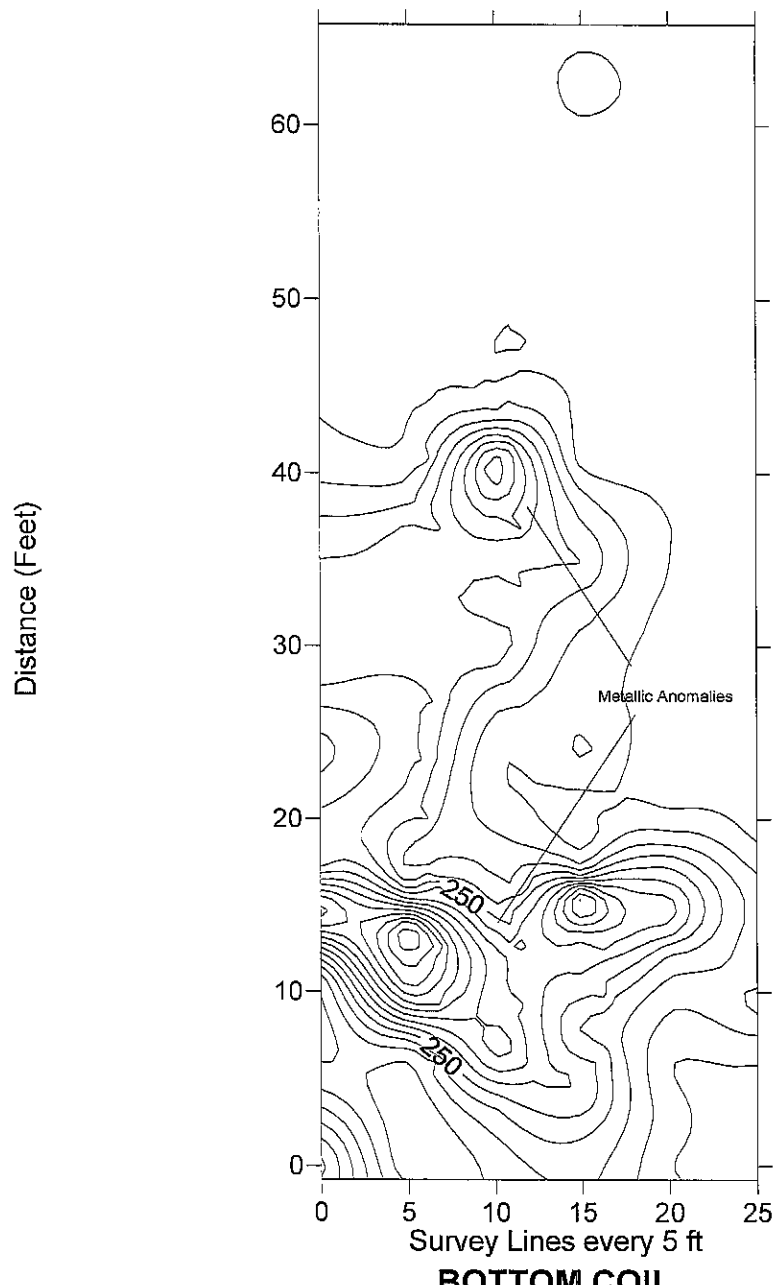
DIFFERENTIAL "N"

Figure: **EM-61 GRID H Differential "N"**	Location: **Mohawk Honda 728-756 State St. & 725-727 Albany St. Schenectady, N.Y.**	
Date: January 23, 2003	Scale: Map not Scaled	Project #: 02.08164

NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES CORP.
1476 Route 50, P.O. Box 2167, Ballston Spa, NY 12020
Phone: (518) 884-8545 Fax: (518) 884-9710 e-mail: jwink@attglobal.net



TOP COIL



BOTTOM COIL

Figure: **EM-61 GRID I**
Top and Bottom Coil

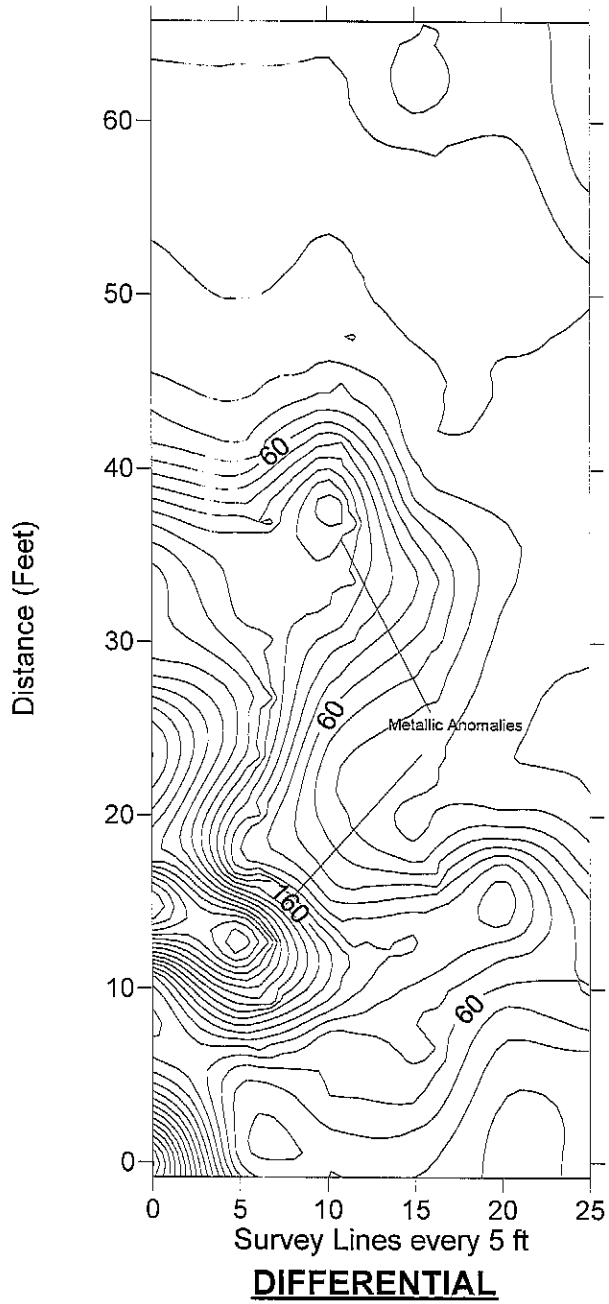
Location: **Mohawk Honda**
728-756 State St. & 725-727 Albany St.
Schenectady, N.Y.

Date: January 23, 2003

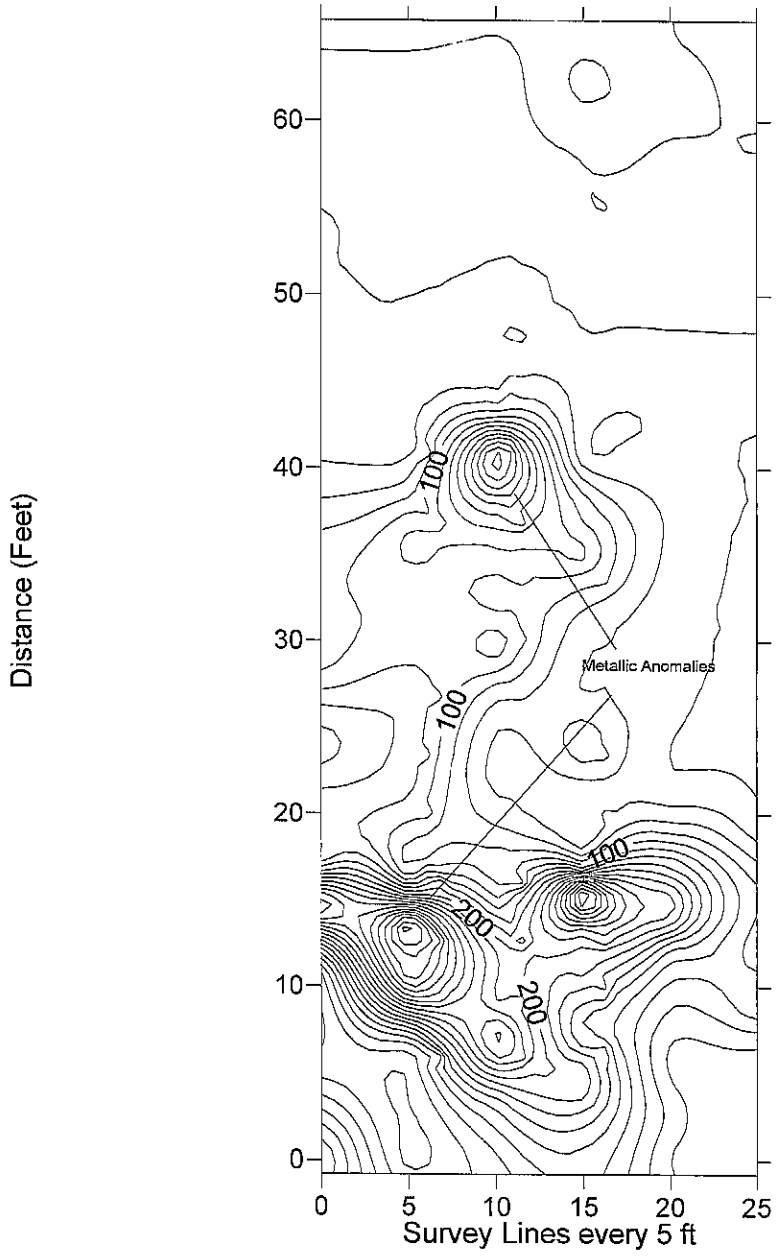
Scale: Map not Scaled

Project #: 02.08164

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DIFFERENTIAL



DIFFERENTIAL "N"

Figure:
EM-61 GRID I
Differential and Differential "N"

Location: **Mohawk Honda**
728-756 State St. & 725-727 Albany St.
Schenectady, N.Y.

Date: January 23, 2003

Scale: Map not Scaled

Project #: 02.08164

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APPENDIX E

SOIL QUALITY RESULTS

NORTHEASTERN
ENVIRONMENTAL
TECHNOLOGIES CORP.
1476 Route 50, P.O. Box 2167, Ballston Spa, NY 12020
Phone: (518) 884-8545 Fax: (518) 884-9710 e-mail: jwink@attglobal.net

SOIL ANALYTICAL DATA (STARS 8021 / 8270)

MOHAWK HONDA

728 - 756 State Street Schenectady, New York

Sampled on November 22, 2002

PARAMETER	SOIL SAMPLE DESCRIPTION		DEC
	GP-4 / S-2 (4 - 8 ft.)	GP-10 / S-3 (8 - 12 ft.)	
MTBE	<54	39	1000
Benzene	**465.0**	<6.2	60
Toluene	1,360.0	<6.2	1500
Ethylbenzene	**5,572.0**	25	5500
m-Xylene / p-Xylene	**17,185.0**	142	1200
o-Xylene	**1,526.0**	30	1200
Isopropylbenzene	825.0	<6.2	-----*
n-Propylbenzene	1,227.0	<6.2	-----*
1,3,5- Trimethylbenzene	2,960.0	75	-----*
tert-Butylbenzene	928.0	26	-----*
1,2,4- Trimethylbenzene	9,408.0	188	-----*
sec-Butylbenzene	351.0	54	-----*
p-Isopropyltoluene	1,955.0	<6.2	-----*
n-Butylbenzene	<54	<6.2	-----*
Total VOC's	**43,762.0**	**579.0**	10000*
Naphthalene	<3,587	<4,074	13000
Acenaphthene	<3,587	<4,074	50,000*
Fluorene	<3,587	<4,074	50,000*
Phenanthrene	<3,587	<4,074	50,000*
Anthracene	<3,587	<4,074	50,000*
Fluoranthene	<3,587	<4,074	50,000*
Pyrene	<3,587	<4,074	50,000*
Benzo(a)anthracene	<3,587	<4,074	224 or MDL
Chrysene	<3,587	<4,074	400
Benzo(b)fluoranthene	<3,587	<4,074	1100
Benzo(k)fluoranthene	<3,587	<4,074	1100
Benzo(a)pyrene	<3,587	<4,074	61 or MDL
Indeno(1,2,3-cd)pyrene	<3,587	<4,074	3200
Dibenz(a,h)anthrancene	<3,587	<4,074	14 or MDL
Benzo(g,h,i)perylene	<3,587	<4,074	50,000*
Total SVOCs	-----	-----	500,000
Non-target peaks	**Positive**	**Positive**	-----
Total VOC & SVOC	**43,762.0**	**579.0**	-----

Notes: All concentrations are in ug/kg or ppb (parts per billion)

DEC = NYSDEC - TAGM - Determination of Soil Cleanup Objectives and Cleanup Levels, 1994.

*= as per TAGM #4046; Total VOC <= 10ppm; Total SVOC <= 500ppm; Individual SVOC <= 50ppm

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Northeastern Environmental Technologies, Corp.
SAMPLE DESCRIPTION: GP-4/S-2'
MATRIX: Soil
LOCATION: Mohawk Honda
H.E.S.#: 030204J07

DATE SAMPLED: 01/30/03
TIME SAMPLED: 12:20 pm
DATE SAMPLE RECD: 02/04/03
TYPE SAMPLE: Grab
SAMPLER: T.Scott/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	SW846-8260B	<54	ug/kg	02/11/03
Benzene	SW846-8260B	465	ug/kg	02/11/03
Toluene	SW846-8260B	1,360	ug/kg	02/11/03
Ethylbenzene	SW846-8260B	5,572	ug/kg	02/11/03
m-Xylene\p-Xylene	SW846-8260B	17,185	ug/kg	02/11/03
o-Xylene	SW846-8260B	1,526	ug/kg	02/11/03
Isopropylbenzene	SW846-8260B	825	ug/kg	02/11/03
n-Propylbenzene	SW846-8260B	1,227	ug/kg	02/11/03
1,3,5-Trimethylbenzene	SW846-8260B	2,960	ug/kg	02/11/03
tert,Butylbenzene	SW846-8260B	928	ug/kg	02/11/03
1,2,4-Trimethylbenzene	SW846-8260B	9,408	ug/kg	02/11/03
sec-Butylbenzene	SW846-8260B	351	ug/kg	02/11/03
p-Isopropyltoluene	SW846-8260B	1,955	ug/kg	02/11/03
n-Butylbenzene	SW846-8260B	<54	ug/kg	02/11/03
Naphthalene	SW846-8270C	<3,587	ug/kg	02/11/03
Acenaphthene	SW846-8270C	<3,587	ug/kg	02/11/03
Fluorene	SW846-8270C	<3,587	ug/kg	02/11/03
Phenanthrene	SW846-8270C	<3,587	ug/kg	02/11/03
Anthracene	SW846-8270C	<3,587	ug/kg	02/11/03
Fluoranthene	SW846-8270C	<3,587	ug/kg	02/11/03
Pyrene	SW846-8270C	<3,587	ug/kg	02/11/03
Benzo (a) anthracene	SW846-8270C	<3,587	ug/kg	02/11/03
Chrysene	SW846-8270C	<3,587	ug/kg	02/11/03
Benzo (b) fluoranthene	SW846-8270C	<3,587	ug/kg	02/11/03
Benzo (k) fluoranthene	SW846-8270C	<3,587	ug/kg	02/11/03
Benzo (a) pyrene	SW846-8270C	<3,587	ug/kg	02/11/03
Indeno (1,2,3-CD) pyrene	SW846-8270C	<3,587	ug/kg	02/11/03
Dibenz (a,h) anthracene	SW846-8270C	<3,587	ug/kg	02/11/03
Benzo (g,h,i) perylene	SW846-8270C	<3,587	ug/kg	02/11/03
Non-Target Peaks		Positive		
Total Solids	EPA 160.3	92	%	02/17/03

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Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Northeastern Environmental Technologies, Corp.
SAMPLE DESCRIPTION: GP-10/S-3'
MATRIX: Soil
LOCATION: Mohawk Honda
H.E.S.#: 030204J08

DATE SAMPLED: 01/30/03
TIME SAMPLED: 9:15 pm
DATE SAMPLE RECD: 02/04/03
TYPE SAMPLE: Grab
SAMPLER: T.Scott/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	SW846-8260B	39	ug/kg	02/11/03
Benzene	SW846-8260B	<6.2	ug/kg	02/11/03
Toluene	SW846-8260B	<6.2	ug/kg	02/11/03
Ethylbenzene	SW846-8260B	25	ug/kg	02/11/03
m-Xylene\p-Xylene	SW846-8260B	142	ug/kg	02/11/03
o-Xylene	SW846-8260B	30	ug/kg	02/11/03
Isopropylbenzene	SW846-8260B	<6.2	ug/kg	02/11/03
n-Propylbenzene	SW846-8260B	<6.2	ug/kg	02/11/03
1,3,5-Trimethylbenzene	SW846-8260B	75	ug/kg	02/11/03
tert,Butylbenzene	SW846-8260B	26	ug/kg	02/11/03
1,2,4-Trimethylbenzene	SW846-8260B	188	ug/kg	02/11/03
sec-Butylbenzene	SW846-8260B	54	ug/kg	02/11/03
p-Isopropyltoluene	SW846-8260B	<6.2	ug/kg	02/11/03
n-Butylbenzene	SW846-8260B	<6.2	ug/kg	02/11/03
Naphthalene	SW846-8270C	<4,074	ug/kg	02/11/03
Acenaphthene	SW846-8270C	<4,074	ug/kg	02/11/03
Fluorene	SW846-8270C	<4,074	ug/kg	02/11/03
Phenanthrene	SW846-8270C	<4,074	ug/kg	02/11/03
Anthracene	SW846-8270C	<4,074	ug/kg	02/11/03
Fluoranthene	SW846-8270C	<4,074	ug/kg	02/11/03
Pyrene	SW846-8270C	<4,074	ug/kg	02/11/03
Benzo (a) anthracene	SW846-8270C	<4,074	ug/kg	02/11/03
Chrysene	SW846-8270C	<4,074	ug/kg	02/11/03
Benzo (b) fluoranthene	SW846-8270C	<4,074	ug/kg	02/11/03
Benzo (k) fluoranthene	SW846-8270C	<4,074	ug/kg	02/11/03
Benzo (a) pyrene	SW846-8270C	<4,074	ug/kg	02/11/03
Indeno (1,2,3-CD) pyrene	SW846-8270C	<4,074	ug/kg	02/11/03
Dibenz (a,h) anthracene	SW846-8270C	<4,074	ug/kg	02/11/03
Benzo (g,h,i) perylene	SW846-8270C	<4,074	ug/kg	02/11/03
Non-Target Peaks		Positive		
Total Solids	EPA 160.3	81	%	02/17/03

Soil results on a dry weight.

Approval By: ML Henry
Date: 2/18/03

Hudson Environmental Services, Inc. certifies that the services provided were performed in accordance with the New York State Department of Health, Environmental Laboratory Approval Program certification manual. In the event of an error, HES's sole responsibility will be to perform reanalysis at its own expense. HES, Inc. assumes no other liability for damages incurred from the interpretation or use of the analysis provided.

HUDSON ENVIRONMENTAL SERVICES, INC.

Mail: 22 Hudson Falls Road, South Glens Falls, NY 12803
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Phone: 518/747-1060 Fax: 518/747-1062

CHAIN OF CUSTODY RECORD/
Lab Work Request

Client NETC.
Client Contact/Person # T. Scott
Project Location Mohawk Honda
Purchase Order
HES Contact

Mail Address
Phone # [redacted] 334-9545

HES Use Only Lab ID	Sample ID / Description	Date Collected	TIME A=a.m. P=p.m.	SAMPLE TYPE C=Composite G=Grab MATRIX	C	G	# Conts.	ANALYSIS REQUIRED
030204J01	Mohawk Honda / GP-2	1/30/03	11:10 A/P	H_2O		X	3	EPA 502.2 / (HOLD) STARS 8270
J02	/ GP-3	1/30/03	11:20 A/P					
J03	/ GP-5	1/30/03	2:20 A/P					
J04	/ GP-8	1/30/03	3:10 A/P					
J05	/ GP-10	1/30/03	4:35 A/P					/ (HOLD) STARS 8270
J06	/ GP-11	1/31/03	12:45 A/P					
J07	/ GP-4/S-2	1/30/03	1:20 A/P	SOIL	X			STARS 8021 & 8270
J08	/ GP-10/S-3	1/30/03	4:15 A/P	SOIL	X			" " "

Matrix
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
O - Oil
DW - Drinking Water
GW - Ground Water
SW - Surface Water
L - Leachate
A - Air
WI - Wipe
DS - Drum Solids
DL - Drum Liquids
X - Other
WW - Waste Water

Special Instructions: HOLD AMBERS ON GP-2 & GP-10 IF SEMIVOCS FOUND, PLEASE CALL NETC IN NON TARGET

Sampled by: (Signature) [signature]	Date/Time 1/31/03 5:00 pm	Received by: (Signature)	Date/Time
Relinquished by: (Signature) [signature]	Date/Time 2/4/03	Received by: (Signature) [signature]	Date/Time 2/4/3 1015
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Dispatched by: (Signature)	Method of Shipment:		Date/Time
Received @ Laboratory: [signature]	Date/Time 2/4/3 1:15	Turnaround Time:	Lab Approval:

HES Use Only

Samples Were:
1. Shipped or Hand Delivered
NOTES:

2. Ambient or Chilled
NOTES:

3. Received Broken/ Leaking (Improperly Sealed)
Y N
NOTES:

4. Properly Preserved
NOTES: Y N

5. Received Within Holding Times
Y N
NOTES:

COC Tape Was:
1. Present on Outer Package Y N
2. Unbroken on Outer Package Y N
3. Present on Sample Y N
4. Unbroken on Sample
NOTES: Y N

COC Record Was:
1. Present upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record?
Y N
NOTES:

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

APPENDIX F

GROUNDWATER QUALITY RESULTS

NORTHEASTERN
ENVIRONMENTAL
TECHNOLOGIES CORP.
1476 Route 50, P.O. Box 2167, Ballston Spa, NY 12020
Phone: (518) 884-8545 Fax: (518) 884-9710 e-mail: jwink@attglobal.net

GROUNDWATER ANALYTICAL DATA (EPA 502.2)

MOHAWK HONDA

728 - 756 State Street Schenectady, New York

Sampled on January 30 and 31, 2003

PARAMETER	WATER SAMPLE DESCRIPTION						DEC
	GP-2	GP-3	GP-5	GP-8	GP-10	GP-11	
MTBE	<0.5	<0.5	<0.5	<0.5	1.4	<0.5	50
Benzene	<0.5	<0.5	<0.5	<0.5	<0.5	2.2	1
Trichloroethylene (TCE)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5
Toluene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5
Tetrachloroethylene (PERC)	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5
Chlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5
Ethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	2.4	5
m-Xylene / p-Xylene	<0.5	<0.5	<0.5	<0.5	<0.5	20.0	5
o-Xylene	<0.5	<0.5	<0.5	<0.5	<0.5	1.2	5
Styrene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5
Isopropylbenzene	<0.5	<0.5	<0.5	<0.5	2.3	2.7	5
n-Propylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	2.0	5
Bromobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5
1,3,5-trimethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	5.1	5
2-Chlorotouene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5
4-Chlorotoluene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5
tert-Butylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5
1,2,4-Trimethylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	15.0	5
sec-Butylbenzene	<0.5	<0.5	<0.5	<0.5	35.0	3.1	5
p-Isopropyltoluene	<0.5	<0.5	<0.5	<0.5	<0.5	2.6	5
1,3-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3
1,4-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3
n-Butylbenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5
1,2-Dichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5
Hexachlorobutadine	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.5
Naphthalene	<0.5	<0.5	<0.5	<0.5	<0.5	8.8	10
1,2,3-Trichlorobenzene	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5
Non-Target Peaks	Negative	Negative	Negative	Negative	Positive*	Positive	-----
Total VOCs	-----	-----	-----	-----	38.7	65.1	-----

Notes: All concentrations are in ug/l or ppb (parts per billion)
DEC = Groundwater quality standards & guidelines (6NYCRR Part 703)
* HES identified peaks as polycyclic aromatics

HUDSON ENVIRONMENTAL SERVICES, INC.
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Phone: 518/747-1060 Fax: 518/747-1062

ANALYTICAL TEST RESULTS
N.Y.S.D.O.H. Lab ID #11140

CLIENT: Northeastern Environmental Technologies, Corp. DATE SAMPLED: 01/30/03

SAMPLE DESCRIPTION: GP-2 TIME SAMPLED: 11:12 am

MATRIX: Water DATE SAMPLE RECD: 02/04/03

LOCATION: Mohawk Honda TYPE SAMPLE: Grab

H.E.S.#: 030204J01 SAMPLER: T.Scott/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	EPA 524.2	<0.5	ug/l	02/06/03
Benzene	EPA 524.2	<0.5	ug/l	02/06/03
Trichloroethylene	EPA 524.2	<0.5	ug/l	02/06/03
Toluene	EPA 524.2	<0.5	ug/l	02/06/03
Tetrachloroethylene	EPA 524.2	<0.5	ug/l	02/06/03
Chlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
Ethylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
m-Xylene/p-Xylene	EPA 524.2	<0.5	ug/l	02/06/03
o-Xylene	EPA 524.2	<0.5	ug/l	02/06/03
Styrene	EPA 524.2	<0.5	ug/l	02/06/03
Isopropylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
n-Propylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
Bromobenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,3,5-trimethylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
2-Chlorotouene	EPA 524.2	<0.5	ug/l	02/06/03
4-Chlorotoluene	EPA 524.2	<0.5	ug/l	02/06/03
tert-Butylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,2,4-Trimethylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
sec-Butylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
p-Isopropyltoluene	EPA 524.2	<0.5	ug/l	02/06/03
1,3-Dichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,4-Dichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
n-Butylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,2-Dichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,2,4-Trichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
Hexachlorobutadiene	EPA 524.2	<0.5	ug/l	02/06/03
Naphthalene	EPA 524.2	<0.5	ug/l	02/06/03
1,2,3-Trichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03

Non-Target Peaks Negative

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Northeastern Environmental Technologies, Corp. DATE SAMPLED: 01/30/03

SAMPLE DESCRIPTION: GP-3 TIME SAMPLED: 11:20 am

MATRIX: Water DATE SAMPLE RECD: 02/04/03

LOCATION: Mohawk Honda TYPE SAMPLE: Grab

H.E.S.#: 030204J02 SAMPLER: T.Scott/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	EPA 524.2	<0.5	ug/l	02/06/03
Benzene	EPA 524.2	<0.5	ug/l	02/06/03
Trichloroethylene	EPA 524.2	<0.5	ug/l	02/06/03
Toluene	EPA 524.2	<0.5	ug/l	02/06/03
Tetrachloroethylene	EPA 524.2	<0.5	ug/l	02/06/03
Chlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
Ethylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
m-Xylene/p-Xylene	EPA 524.2	<0.5	ug/l	02/06/03
o-Xylene	EPA 524.2	<0.5	ug/l	02/06/03
Styrene	EPA 524.2	<0.5	ug/l	02/06/03
Isopropylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
n-Propylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
Bromobenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,3,5-trimethylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
2-Chlorotouene	EPA 524.2	<0.5	ug/l	02/06/03
4-Chlorotoluene	EPA 524.2	<0.5	ug/l	02/06/03
tert-Butylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,2,4-Trimethylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
sec-Butylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
p-Isopropyltoluene	EPA 524.2	<0.5	ug/l	02/06/03
1,3-Dichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,4-Dichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
n-Butylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,2-Dichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,2,4-Trichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
Hexachlorobutadiene	EPA 524.2	<0.5	ug/l	02/06/03
Naphthalene	EPA 524.2	<0.5	ug/l	02/06/03
1,2,3-Trichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03

Non-Target Peaks Negative

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Northeastern Environmental Technologies, Corp. DATE SAMPLED: 01/30/03

SAMPLE DESCRIPTION: GP-5 TIME SAMPLED: 2:20 pm

MATRIX: Water DATE SAMPLE RECD: 02/04/03

LOCATION: Mohawk Honda TYPE SAMPLE: Grab

H.E.S.#: 030204J03 SAMPLER: T.Scott/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	EPA 524.2	<0.5	ug/l	02/06/03
Benzene	EPA 524.2	<0.5	ug/l	02/06/03
Trichloroethylene	EPA 524.2	<0.5	ug/l	02/06/03
Toluene	EPA 524.2	<0.5	ug/l	02/06/03
Tetrachloroethylene	EPA 524.2	<0.5	ug/l	02/06/03
Chlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
Ethylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
m-Xylene/p-Xylene	EPA 524.2	<0.5	ug/l	02/06/03
o-Xylene	EPA 524.2	<0.5	ug/l	02/06/03
Styrene	EPA 524.2	<0.5	ug/l	02/06/03
Isopropylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
n-Propylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
Bromobenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,3,5-trimethylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
2-Chlorotouene	EPA 524.2	<0.5	ug/l	02/06/03
4-Chlorotoluene	EPA 524.2	<0.5	ug/l	02/06/03
tert-Butylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,2,4-Trimethylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
sec-Butylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
p-Isopropyltoluene	EPA 524.2	<0.5	ug/l	02/06/03
1,3-Dichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,4-Dichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
n-Butylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,2-Dichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,2,4-Trichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
Hexachlorobutadiene	EPA 524.2	<0.5	ug/l	02/06/03
Naphthalene	EPA 524.2	<0.5	ug/l	02/06/03
1,2,3-Trichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03

Non-Target Peaks Negative

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Northeastern Environmental Technologies, Corp. DATE SAMPLED: 01/30/03

SAMPLE DESCRIPTION: GP-8 TIME SAMPLED: 3:12 pm

MATRIX: Water DATE SAMPLE RECD: 02/04/03

LOCATION: Mohawk Honda TYPE SAMPLE: Grab

H.E.S.#: 030204J04 SAMPLER: T.Scott/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	EPA 524.2	<0.5	ug/l	02/06/03
Benzene	EPA 524.2	<0.5	ug/l	02/06/03
Trichloroethylene	EPA 524.2	<0.5	ug/l	02/06/03
Toluene	EPA 524.2	<0.5	ug/l	02/06/03
Tetrachloroethylene	EPA 524.2	<0.5	ug/l	02/06/03
Chlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
Ethylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
m-Xylene/p-Xylene	EPA 524.2	<0.5	ug/l	02/06/03
o-Xylene	EPA 524.2	<0.5	ug/l	02/06/03
Styrene	EPA 524.2	<0.5	ug/l	02/06/03
Isopropylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
n-Propylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
Bromobenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,3,5-trimethylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
2-Chlorotouene	EPA 524.2	<0.5	ug/l	02/06/03
4-Chlorotoluene	EPA 524.2	<0.5	ug/l	02/06/03
tert-Butylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,2,4-Trimethylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
sec-Butylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
p-Isopropyltoluene	EPA 524.2	<0.5	ug/l	02/06/03
1,3-Dichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,4-Dichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
n-Butylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,2-Dichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,2,4-Trichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
Hexachlorobutadiene	EPA 524.2	<0.5	ug/l	02/06/03
Naphthalene	EPA 524.2	<0.5	ug/l	02/06/03
1,2,3-Trichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03

Non-Target Peaks Negative

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Northeastern Environmental Technologies, Corp. DATE SAMPLED: 01/30/03

SAMPLE DESCRIPTION: GP-10 TIME SAMPLED: 4:35 pm

MATRIX: Water DATE SAMPLE RECD: 02/04/03

LOCATION: Mohawk Honda TYPE SAMPLE: Grab

H.E.S.#: 030204J05 SAMPLER: T.Scott/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	EPA 524.2	1.4	ug/l	02/06/03
Benzene	EPA 524.2	<0.5	ug/l	02/06/03
Trichloroethylene	EPA 524.2	<0.5	ug/l	02/06/03
Toluene	EPA 524.2	<0.5	ug/l	02/06/03
Tetrachloroethylene	EPA 524.2	<0.5	ug/l	02/06/03
Chlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
Ethylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
m-Xylene/p-Xylene	EPA 524.2	<0.5	ug/l	02/06/03
o-Xylene	EPA 524.2	<0.5	ug/l	02/06/03
Styrene	EPA 524.2	<0.5	ug/l	02/06/03
Isopropylbenzene	EPA 524.2	2.3	ug/l	02/06/03
n-Propylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
Bromobenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,3,5-trimethylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
2-Chlorotouene	EPA 524.2	<0.5	ug/l	02/06/03
4-Chlorotoluene	EPA 524.2	<0.5	ug/l	02/06/03
tert-Butylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,2,4-Trimethylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
sec-Butylbenzene	EPA 524.2	35	ug/l	02/06/03
p-Isopropyltoluene	EPA 524.2	<0.5	ug/l	02/06/03
1,3-Dichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,4-Dichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
n-Butylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,2-Dichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,2,4-Trichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
Hexachlorobutadiene	EPA 524.2	<0.5	ug/l	02/06/03
Naphthalene	EPA 524.2	<0.5	ug/l	02/06/03
1,2,3-Trichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03

Non-Target Peaks Positive*
*polycyclic aromatics found in library search.

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Northeastern Environmental Technologies, Corp. DATE SAMPLED: 01/31/03

SAMPLE DESCRIPTION: GP-11 TIME SAMPLED: 12:45 pm

MATRIX: Water DATE SAMPLE RECD: 02/04/03

LOCATION: Mohawk Honda TYPE SAMPLE: Grab

H.E.S.#: 030204J06 SAMPLER: T.Scott/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	EPA 524.2	<0.5	ug/l	02/06/03
Benzene	EPA 524.2	2.2	ug/l	02/06/03
Trichloroethylene	EPA 524.2	<0.5	ug/l	02/06/03
Toluene	EPA 524.2	<0.5	ug/l	02/06/03
Tetrachloroethylene	EPA 524.2	<0.5	ug/l	02/06/03
Chlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
Ethylbenzene	EPA 524.2	2.4	ug/l	02/06/03
m-Xylene/p-Xylene	EPA 524.2	20	ug/l	02/06/03
o-Xylene	EPA 524.2	1.2	ug/l	02/06/03
Styrene	EPA 524.2	<0.5	ug/l	02/06/03
Isopropylbenzene	EPA 524.2	2.7	ug/l	02/06/03
n-Propylbenzene	EPA 524.2	2.0	ug/l	02/06/03
Bromobenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,3,5-trimethylbenzene	EPA 524.2	5.1	ug/l	02/06/03
2-Chlorotouene	EPA 524.2	<0.5	ug/l	02/06/03
4-Chlorotoluene	EPA 524.2	<0.5	ug/l	02/06/03
tert-Butylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,2,4-Trimethylbenzene	EPA 524.2	15	ug/l	02/06/03
sec-Butylbenzene	EPA 524.2	3.1	ug/l	02/06/03
p-Isopropyltoluene	EPA 524.2	2.6	ug/l	02/06/03
1,3-Dichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,4-Dichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
n-Butylbenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,2-Dichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
1,2,4-Trichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03
Hexachlorobutadiene	EPA 524.2	<0.5	ug/l	02/06/03
Naphthalene	EPA 524.2	8.8	ug/l	02/06/03
1,2,3-Trichlorobenzene	EPA 524.2	<0.5	ug/l	02/06/03

Non-Target Peaks Positive

HUDSON ENVIRONMENTAL SERVICES, INC.

Mail: 22 Hudson Falls Road, South Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., South Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

CHAIN OF CUSTODY RECORD/
Lab Work Request

Client NFTC.
Client Contact/Person # T. Scott
Project Location Mohawk Honda
Purchase Order
HES Contact

Mail Address
Phone # [redacted] 884-9545

HES Use Only Lab ID	Sample ID / Description	Date Collected	TIME A=a.m. P=p.m.	SAMPLE TYPE C=Composite G=Grab MATRIX	C	G	# Conts.	ANALYSIS REQUIRED
030204.J01	Mohawk Honda / GP-2	1/30/03	11:10 A/P	H_2O		X	3	EPA 502.2 / (HOLD) STARS 8270
J02	/ GP-3	1/30/03	11:20 A/P					
J03	/ GP-5	1/30/03	2:20 A/P					
J04	/ GP-8	1/30/03	3:10 A/P					
J05	/ GP-10	1/30/03	4:35 A/P					/ (HOLD) STARS 8270
J06	/ GP-11	1/31/03	12:45 A/P					
J07	/ GP-4/S-2	1/30/03	1:20 A/P	Soil	X			STARS 8021 & 8270
J08	/ GP-10/S-3	1/30/03	4:15 A/P	Soil	X			" " "

Matrix
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
O - Oil
DW - Drinking Water
GW - Ground Water
SW - Surface Water
L - Leachate
A - Air
WI - Wipe
DS - Drum Solids
DL - Drum Liquids
X - Other
WW - Waste Water

Special Instructions: HOLD AMBERS ON GP-2 & GP-10 IF SEMIVOCS FOUND, PLEASE CALL NFTC IN NON TARGET

Sampled by: (Signature)	Date/Time 1/31/03 5:00 pm	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Date/Time 2/4/03	Received by: (Signature)	Date/Time 2/4/3 1015
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Dispatched by: (Signature)	Method of Shipment:		Date/Time
Received @ Laboratory:	Date/Time 2/4/3 1:15	Turnaround Time:	Lab Approval:

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

HES Use Only

Samples Were:
1. Shipped or Hand Delivered
NOTES:

2. Ambient or Chilled
NOTES:

3. Received Broken/ Leaking (Improperly Sealed)
Y N
NOTES:

4. Properly Preserved
NOTES: Y N

5. Received Within Holding Times
Y N
NOTES:

COC Tape Was:
1. Present on Outer Package Y N
2. Unbroken on Outer Package Y N
3. Present on Sample Y N
4. Unbroken on Sample
NOTES: Y N

COC Record Was:
1. Present upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record?
Y N
NOTES:

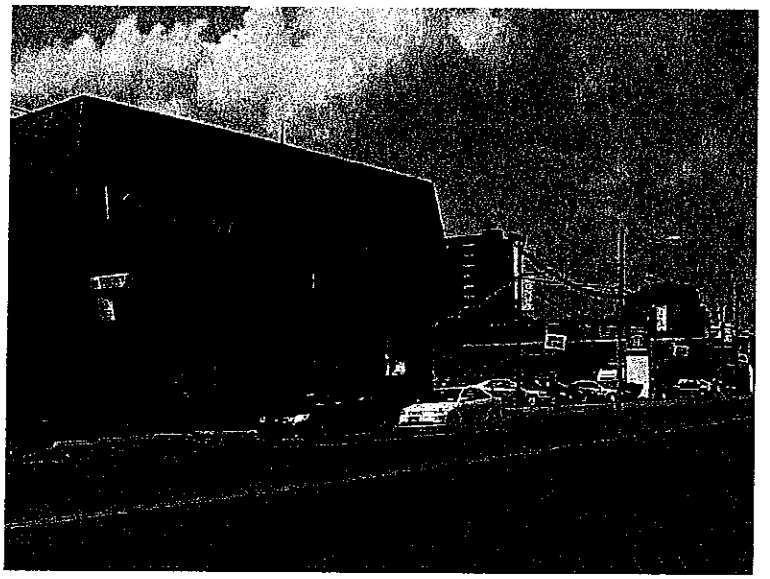
EXHIBIT 2

2003 REMEDIAL INVESTIGATION & TANK CLOSURE REPORT

Remedial Investigation & Tank Closure Program

MOHAWK HONDA

728-756 STATE STREET
SCHENECTADY, NEW YORK 12307
NETC PROJECT #02.08164
September 22, 2003



PREPARED FOR:

NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Region 4 Spill Unit
1150 N. Westcott Rd.
Schenectady, New York 12307
and
HARADEN MOTOR CAR CORP
756 State Street
Schenectady, New York 12307

PREPARED BY:

NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES CORP.
1476 Route 50 - P.O. Box 2167
Ballston Spa, New York 12020
(518) 884-8545

"..... providing integrated environmental and geotechnical services ....."

GEO-ENVIRONMENTAL CONSULTING & PROPERTY MANAGEMENT SERVICES - SITE ASSESSMENTS - GEOTECHNICAL DRILLING & DPT PROBE SERVICES - TANK CLOSURES - EXCAVATION SERVICES - SOIL & GROUNDWATER REMEDIATION - EXPERT TESTIMONY - WASTE BROKERAGE SERVICES

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1.0 INTRODUCTION

The following information has been assimilated to outline the results of a recently completed "Remedial Investigation and Tank Closure Program" conducted at Mohawk Honda's 728 - 756 State Street Schenectady, NY facility (hereinafter termed the site - See **Figure 1**). The work was performed in accordance with the NYSDEC Stipulation agreement (STIP # R4-313). The field and laboratory methods used to accomplish the work were based on the methods outlined in NETC's May 14, 2003 work plan as well as the DEC ASSESSMENT GUIDANCE FOR PETROLEUM TANK CLOSURES & SPILL PREVENTION OPERATION TECHNICAL SERIES (SPOTS NO. 14), SITE ASSESSMENTS AT BULK STORAGE FACILITIES and the SPILL TECHNOLOGIES AND REMEDIATION SERIES MEMO #1.

In order to address the issues germane to this remedial action, site specific improvements, facility information and available soil and groundwater information previously assimilated by NETC were reviewed and / or considered. A more detailed discussion of the specific activities completed during the soil removal program is included below for consideration.

2.0 BACKGROUND INFORMATION

A previously completed Phase 1 Environmental Site Assessment, performed in advance of a property wide redevelopment program, identified the potential presence of seven underground storage tanks (UST) at the site. Five of the UST's relate to commercial establishments and similar residential structures that existed at the site prior to 1970. Haraden Motor Car Group (DBA Mohwak Honda) representatives substantiated the removal of (1) 2,000 gallon gasoline UST in 1992 and the in-place closure of a second UST in 1980. The disposition of the remaining USTs was evaluated during a subsurface investigation (SI) completed at the site in January 2003. The completed SI services identified (via remote sensing survey methods) a total of nine suspect anomalies that could represent UST infrastructure. A subsequent soil boring and test pit excavation program was used to confirm or refute the presence of UST infrastructure. The completed SI services have substantiated the presence of (4) inactive UST's. Petroleum contamination identified at the site is attributed to the historical use of the UST infrastructure.

To pursue the administrative closure of spill case # 0301751 and in accordance with the Stipulation agreement (RA4-313), UST removal and soil and groundwater source removal program was implemented on June 16, 2003 and completed on July 15, 2003. The remedial services focused on the removal of the USTs, UST infrastructure and grossly contaminated soil and groundwater from five locations at the site (see **Figure 2**). All completed work has occurred exclusively on the subject site.

NETC staff on behalf of the Haraden Motor Car Group, directed the soil removal and disposal services, and provided on site treatment services for contaminated groundwater recovered during the soil removal services. Contaminated soil transportation services and UST removal services were performed by Mangiardi

Trucking and MC Environmental respectively. A more complete accounting of the subsurface conditions encountered and the services completed at the site are presented for your consideration, as follows.

3.0 COMPLETED REMEDIAL MEASURES

The completed remedial measures resulted in the location, decontamination and removal of (4) single wall steel USTs. All UST closure services were performed in accordance with the DEC's Petroleum Bulk Storage Regulation 6NYCRR Part 613.9. Prior to the UST removal services petroleum-contaminated liquid and sludge in each UST were containerized and removed by MC Environmental Service (MCE). A total of 2,130 gallons of liquid petroleum and sludge were removed as a result of the tank closure services and 1,320 gallon of petroleum contaminated groundwater was removed and disposed of off site as a result of the soil removal services. Copies of the individual Bill of Lading's are included in **Appendix B**.

Visual inspection of each UST and excavation zone was performed following decontamination work to evaluate the general integrity of each structure and to consider the presence of petroleum contamination. Sidewall and base soil samples collected from each UST and / or soil removal zone were periodically subjected to visual, olfactory and volatile organic compound (VOC) head space soil gas analysis using a properly calibrated photoionization detector (PhotoVac Model 2020). The PID testing services were used to direct the soil removal efforts as well as short list end point soil samples for additional laboratory analysis. End point soil samples collected at the site were submitted to Hudson Environmental Services (HES) for the chemical analysis pursuant to the DEC STARS Memo #1 testing criteria SW846 Methods 8021 and 8270. Soil samples were also submitted to Upstate Laboratories Inc. (ULI) for Trimethyl Lead chemical analysis and Albany County Landfill parameters (8260, 8270, 8081, 8150, Metals, 8082). Copies of the HES and ULI laboratory reports are included in **Appendix C**.

PID soil removal thresholds of 5.0 ppm and 25 ppm were used for fuel oil and gasoline USTs, respectively. Soil horizons exhibiting visual and / or olfactory indications of petroleum contamination were also removed whenever possible. To assist in directing the soil removal effort, eight (8) additional soil borings were installed using direct push techniques. The soil borings were installed to depths ranging from ±6.0 to 26.0 feet to facilitate the acquisition of near surface soil samples. Each soil boring was completed in a manner to provide a geological log of the subsurface conditions and provide necessary data on the soil and / or groundwater condition. The additional soil borings were installed utilizing NETC's truck mounted Geoprobe 540U sampling system following standard direct push sampling methods. NETC performed all aspects of the soil boring program and was responsible for detailed logging of all samples. The specific soil boring locations advanced at the site are illustrated on **Figure 3**. Copies of the individual soil boring logs are included in **Appendix D**.

All petroleum contaminated soil was removed and temporarily stockpiled on site on 6 mil poly-synthetic liners. All contaminated soil generated as a result of the soil removal effort was disposed of at the City of Albany Rapp Rd. Landfill during the period from July 7 - 10, 2003. A total of 934.80 tons of contaminated soil was removed during the soil removal program. Copies of the soil disposal receipts are included in **Appendix E**.

To facilitate the effective removal of the soil contamination a total of 8,433 gallons of contaminated groundwater was removed during the excavation services. The groundwater dewatering services were necessary to facilitate the recovery of deep contaminated soil horizons. Contaminated groundwater was treated on-site using NETC's mobile air stripper and activated carbon treatment system. Treated groundwater was discharged to an on-site sanitary sewer drop inlet. Effluent samples were collected from the treatment system to ensure discharge compliance pursuant to Stipulation Agreement RA4-313. Copies of the laboratory results for both untreated groundwater (i.e., influent) removed during the dewatering service as well as the treated (effluent) groundwater data are included in **Appendix F**.

4.0 FINDINGS

4.1 REMOVAL AREA #1

Two 1000 gallon gasoline UST's (i.e., UST # 1 and 2) were decontaminated and removed from exploration Area #1. Visual inspection of the UST's identified pitting and corrosion (i.e., ≤ 1 inch diameter) in each USTs. The UST's were installed end to end and manifolded via two 1 inch diameter steel pipes. The UST's were encountered at a depth ±7.0 feet below ground surface (bgs) below an asphalt layer. The unconsolidated material encountered above the buried asphalt layer consisted of a sand and gravel cultural fill layer. The unconsolidated deposits encountered below the buried asphalt layer consisted of a brown medium to fine sand, and some silt. Groundwater was observed approximately 10.0 feet bgs.

Visual and olfactory evidence of petroleum contaminated soil was apparent at ±7.0 feet below grade directly below the buried asphalt surface. Initial soil gas concentrations surrounding exceeded 2,000 ppm. Soil removal efforts were pursued along the southern and west portions of the excavation. Soil boring information (i.e., GP-12, GP-13, and GP-14) was also used to direct the soil removal efforts.

Four post excavation end point soil samples were collected along the south sidewall at ±13.5 to 15.5 feet bgs (UST-1&2/S-1A&B), north sidewall at ± 12.5 feet bgs (UST 1&2/EPS-D), west sidewall at ±15.0 feet bgs (UST-1&2/EPS-E), and north western sidewall at ± 14.0 feet bgs (UST-1&2/EPS-F) portions of the excavation. The end point soil sample locations are each illustrated on **Figure 4**. All end point samples underwent chemical analysis pursuant to the DEC STARS Memo #1 testing criteria via SW846 8021.

End point samples UST-1/S-1A&B and UST-1&2/EPS-D were reported to be unaffected by the chemical parameters inherent to STARS 8021 testing criteria. End point samples UST-1&2/EPS-E and UST-1&2/EPS-F were reported as containing low detectable levels of toluene, p-isopropyltoluene and toluene, ethylbenzene, m-xylene/p-xylene, isopropylbenzene, n-propylbenzene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, sec-butylbenzene, and p-isopropyltoluene respectively. Each chemical parameter report above was found to be below the DEC TAGM 4046 soil quality guidance criteria for the protection of groundwater. The end point soil sample results are included in **Appendix C**.

To further assist in the natural attenuation of residual petroleum contamination 90 lbs. of Oxygen Release Compound (ORC) was added to the western side of the excavation (adjacent to 738-740 State Street building) prior to the placement of fill in the excavation.

4.2 Removal Area #2

One 1000 gallon waste oil (i.e., UST # 3) was decontaminated and removed from Area #2. Visual inspection identified one structure failure at the base of the UST. The top of the UST was encountered at 2 feet below ground surface (bgs). The upper 7.0 foot of unconsolidated deposits adjacent to the UST consisted of cultural fill (i.e., sand, gravel, brick, shale rock). The unconsolidated deposits below the fill layer consisted of brown medium to fine sand, and some silt. Groundwater was encountered at a depth of ± 7.0 feet bgs.

Visual and olfactory evidence of petroleum contamination was limited to the northern edge of the UST next to the building. PID readings obtained from soil adjacent to this area ranged between 50 -138 ppm at 6.0 feet bgs. Soil removal efforts were pursued to the extent feasible along the north wall of the excavation where soils exceeded the 25 ppm soil removal threshold. The soil removal efforts were limited due to the presence of the adjacent building. No petroleum odors or sheens were observed on the groundwater in the excavation.

Post excavation end point samples were collected along the northern (UST-3/S-1) and southern (UST-3/S-2) portions of the excavation. Both samples were collected from 7.0 feet bgs. The end point soil sample locations are illustrated on **Figure 5**. All end point soil samples underwent chemical analysis pursuant to the DEC STARS Memo #1 testing criteria via SW846 8021/8270.

The endpoint soil sample collected from UST-3/S-2 was found to be free of chemical parameters inherent to DEC's STARS 8021 & 8270 testing criteria. Soil sample UST-3/S-1 contained detectable concentrations of both VOC and SVOC. The individual petrochemicals as well as the aggregate VOC and SVOC concentration (i.e., total VOC < 10 ppm and total SVOC <500 ppm) reported in UST-3/S-1 were below the DEC's TAGM 4046 soil quality guidance criteria for the protection of groundwater. In addition, both end point soil samples were report by HES as positive for non-target peaks outside the DEC's STARS 8021 & 8270 testing criteria. HES reported the

non-target petroleum compounds as indicative of a "heavy fuel" pattern. The end point soil sample results are included in **Appendix C**.

4.3 Removal Area #3

Between June 25-27, 2003, test pit excavation services were performed at Area #3 to assess the presence of UST infrastructure. The presence of an UST was suspected based on petroleum contaminated soil identified at soil boring GP-10, and the presence of a relic vent pipe infrastructure on the adjacent 730 State St. structure. No (intact) UST was found to exist in Area #3. A 4-foot diameter metal carcass indicative of a 1000 gallon UST along with miscellaneous piping was encountered and removed from Area #3.

The upper 7.0 foot of unconsolidated deposits adjacent to the UST consisted of cultural fill (i.e., sand, gravel, brick, shale rock). The unconsolidated deposits below the fill layer consisted of brown medium to fine sand, and some silt. Visual and olfactory evidence of petroleum contamination was evident in soils ranging between 8 and 17 feet bgs. PID readings obtained from the soil removal zone ranged between ± 26 - 337 ppm. Soil removal efforts were pursued to the extent feasible where VOC soil gas levels exceeded the 25 ppm. Excavation was restricted to the west due to the adjacent building, to the north by the adjacent City of Schenectady sidewalk and State Street, buried utilities, and to the east by a buried concrete foundation. Soil borings GP-17, GP-18, and GP-19 were also used to define the southern extent of the soil contamination. Groundwater was encounter at ± 10.0 feet bgs. No visible sheen or petroleum odor were observed on groundwater removed from Area #3.

Three post excavation end point samples were collected along the northwest side wall at 14.5 feet bgs (Area 3/EPS-1), east side wall at 17.0 feet bgs (Area 3/EPS-5), and southwest side wall at 13.0 feet bgs (Area 3/EPS-8). Sampling locations are shown in **Figure 6.** All samples were sent to Hudson Environmental Services, Inc. (HES) to undergo chemical analysis pursuant to the DEC STARS Memo #1 testing criteria via SW846 8021/8270.

The endpoint soil samples collect from the east side wall (Area 3/EPS-5) was found to be free of chemical parameters inherent to DEC's STARS 8021 & 8270 testing criteria. However the endpoint soil samples Area 3/EPS-1 and Area 3/EPS-8 contain detectable levels of p-isopropyltoluene and sec-butylbenzene respectively, each below the DEC's TAGM 4046 soil quality guidance criteria for the protection of groundwater. In addition HES identified non-target peaks outside the DEC STARS 8021 & 8270 testing criteria in endpoint soil samples Area 3/EPS-1 and Area 3/EPS-8. HES reported the non-target petroleum compounds as indicative of a "heavy fuel" pattern. The end point soil sample results are included in **Appendix C**.

4.4 Removal Area #4

One 1000 gallon gasoline UST (i.e., UST # 4) was decontaminated and removed from the site. The top of the UST was encountered at 6.5 feet below ground surface (bgs). UST #4 had been previously filled with concrete. After uncovering the UST, a residual gasoline was encountered atop the concrete in the uppermost portion of the UST. The concrete surface was flushed with water and removed via drum-vac and stored in 55 gallon drum on site. Following the UST removal services the contaminated concrete was removed from the structure and disposed of along with the petroleum contaminated soil.

The unconsolidated material encountered consisted of a sand and gravel cultural fill layer followed by a brown medium to fine sand, and some silt. Groundwater was observed approximately 10.0 feet bgs. Visual and olfactory evidence of petroleum contamination was limited to the western portion of the excavation. PID soil gas concentrations obtained from areas adjacent to UST #4 exceeded 2,000 ppm. Soil removal efforts were pursued to the extent feasible along the western portion of the excavation where soils exceeded the 25 ppm soil removal threshold. The soil removal efforts were limited due to the presence of the adjacent building foundation located approximately 6 feet to the west.

Post excavation end point samples were collected along the eastern end of the excavation at ± 10.0 to 12.0 feet bgs (UST-4/EPS-1) and western end of the excavation at 17.0 feet bgs (UST-4/EPS-2) portions of the excavation. Sampling locations are shown in **Figure 7**. All samples were sent to Hudson Environmental Services, Inc. (HES) to undergo chemical analysis pursuant to the DEC STARS Memo #1 testing criteria via SW846 8021.

End point sample UST-4/EPS-1 (eastern side) is identified as unaffected by the chemical parameters inherent to the STARS 8021 testing criteria. End point soil sample UST-4/EPS-2 (western side) is identified as containing detectable levels of VOCs with benzene (172 ppm) and m-xylene/p-xylene at (1,364 ppm) above the DEC's TAGM 4046 soil quality guidance criteria for the protection of groundwater. The end point soil sample results are included in **Appendix C**.

4.5 Removal Area #5

Exploratory excavation services were performed at Area #5 (i.e., northeast of the 738-740 State Street structure) to assess the presence of UST infrastructure. The excavation services were advanced near a fill pipe located in the adjacent sidewalk (see **Figure 7**). The test pit was advanced down to a depth of approximately 7.0 feet 3.5 feet south of the fill pipe. No evidence of an UST and / or UST infrastructure was found. A foundation wall was encountered along the south side of the sidewalk. The cultural fill (brick, concrete, clinker, household radiator, medicine chest, piping) encountered in Area #5 and the presence of a foundation along the sidewalk suggests the interior of a former building demolition debris. No visual or olfactory evidence of

contamination was observed. PID readings obtained from the test pit bottom and side walls were background (e.g., 0.0 ppm). Groundwater was not encountered in the test pit.

One post excavation soil sample (Area-5/S-1) was collected from the bottom of the test pit. The sample was submitted to HES to undergo chemical analysis pursuant to the DEC STARS Memo #1 testing criteria via SW846 8021/8270. Endpoint sample Area 5/S-1 was shown to be unaffected by STARS 8021 VOC parameters. However, 36,679 ug/kg of total semi-volatile organic compounds (SVOCs) were reported with five of the SVOCs (e.g., benzo(a)anthracene, chrysene, benzo(b)fluoranthene, benzo(k)fluoranthene, and benzo(a)pyrene) being detected at concentrations exceeding DEC soil cleanup standards. The aggregate SVOC concentrations were however below the 500 ppm DEC TAGM 4046 soil quality guidance criteria for the protection of groundwater. The end point soil sample results are included in **Appendix C**.

A complete photographic log of the remedial measures completed at Areas 1 - 5 is included in **Appendix G**.

5.0 DISCUSSION

It is the opinion of this firm that the completed tank closure and soil removal services have removed (were possible) the ostensible contaminant sources of concern. The residual petroleum contamination documented in select end point soil and groundwater samples are considered localized and not indicative of wide spread contamination. The industrialized / commercial location of the site, the encapsulated - capped (i.e., paced) condition of each UST / soil removal zone, the lack of sensitive receptors and the use of municipal water in the study area would appear to reduce (if not eliminate) the exposure risk posed by the residual petroleum contaminants that remain. NETC's opinions regarding the low risk posed by the residual petroleum contaminants are also based on favorable soil and groundwater quality conditions documented during this and previous site assessment work performed at the site (i.e., NETC's SUBSURFACE INVESTIGATION REPORT DATED MARCH 18, 2003).

In view of the completed site assessment and the corrective action services, NETC respectfully request, on behalf of the project sponsor, regulatory administrative closure (i.e., not meeting standards) for Spill Case # 0301751. NETC remains available to assist the DEC with this and related matters, as necessary.

APPENDIX A

MAP INFORMATION & FIGURES

NORTHEASTERN
ENVIRONMENTAL
TECHNOLOGIES CORP.
1476 Route 50, P.O. Box 2167, Ballston Spa, NY 12020
Phone: (518) 884-8545 Fax: (518) 884-9710 e-mail: jwink@attglobal.net

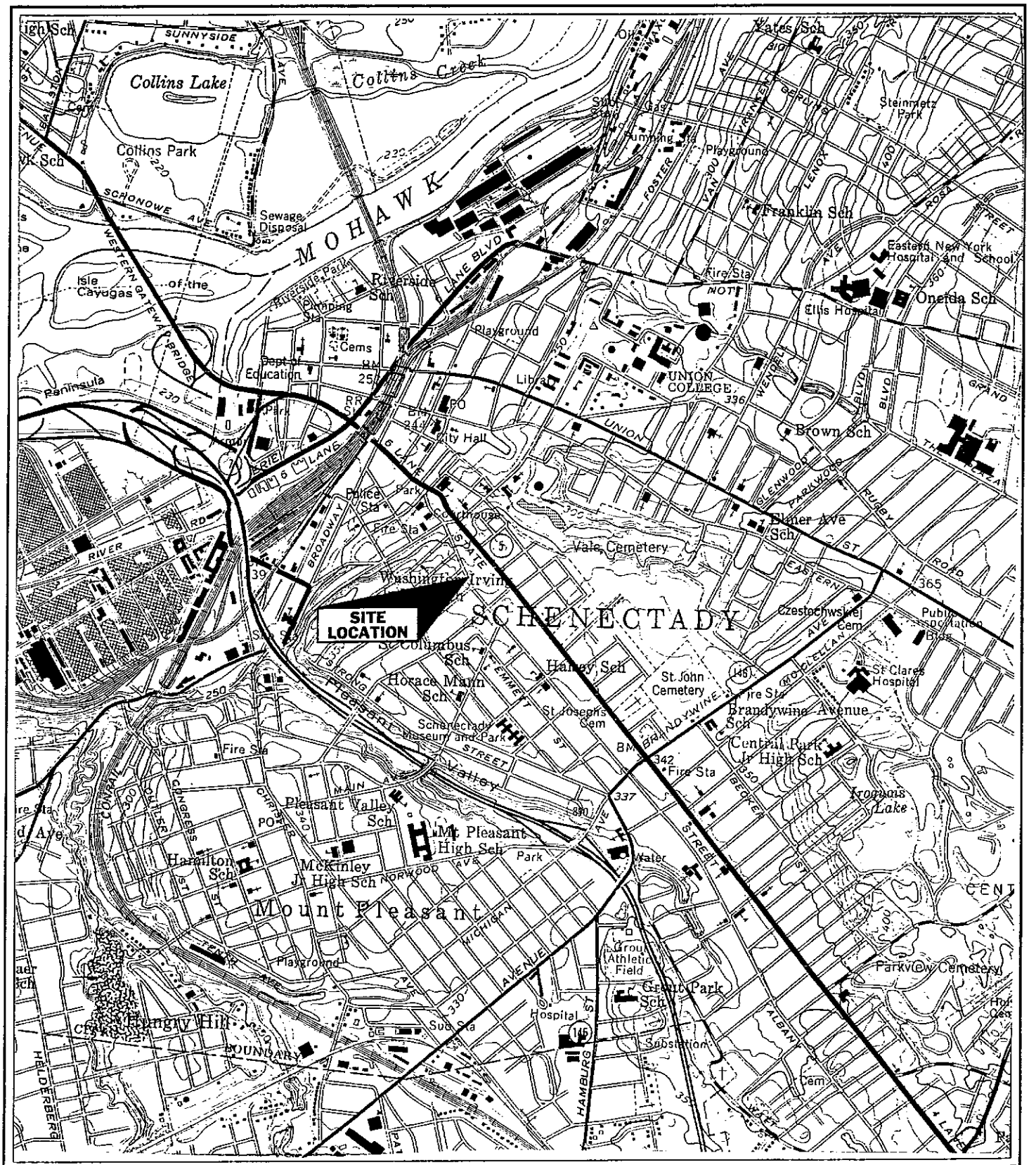
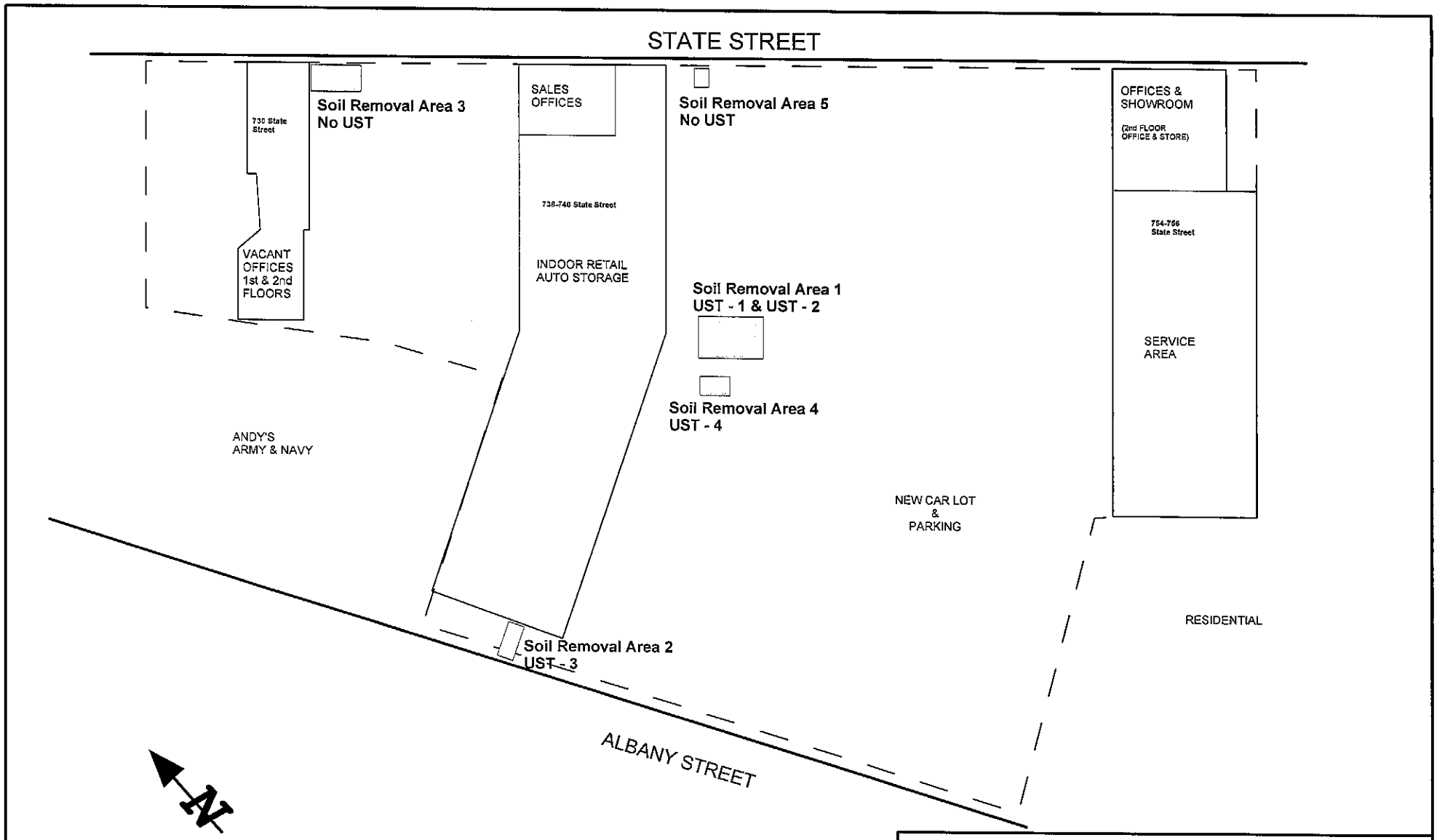


FIGURE 1:	Location Map	
PROJECT:	Mohawk Honda 728-756 State Street Schenectady, NY	
Project # 02.08164	SCALE 1"= 2000'	Date: 08/14/02

NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES CORP.

2381 Route 9, P.O. Box 2167, Malta, NY 12020
Phone: (518) 899-9684 Fax: (518) 899-5973 e-mail: jwink@attglobal.net

GEO-ENVIRONMENTAL CONSULTING & PROPERTY MANAGEMENT SERVICES * SITE ASSESSMENTS * GEOTECHNICAL DRILLING & DPT PROBE SERVICES * TANK CLOSURES * EXCAVATION SERVICES * SOIL & GROUNDWATER REMEDIATION * EXPERT TESTIMONY * OSHA FIELD CERTIFIED



LEGEND

☐ Soil Removal Areas

NOTES:

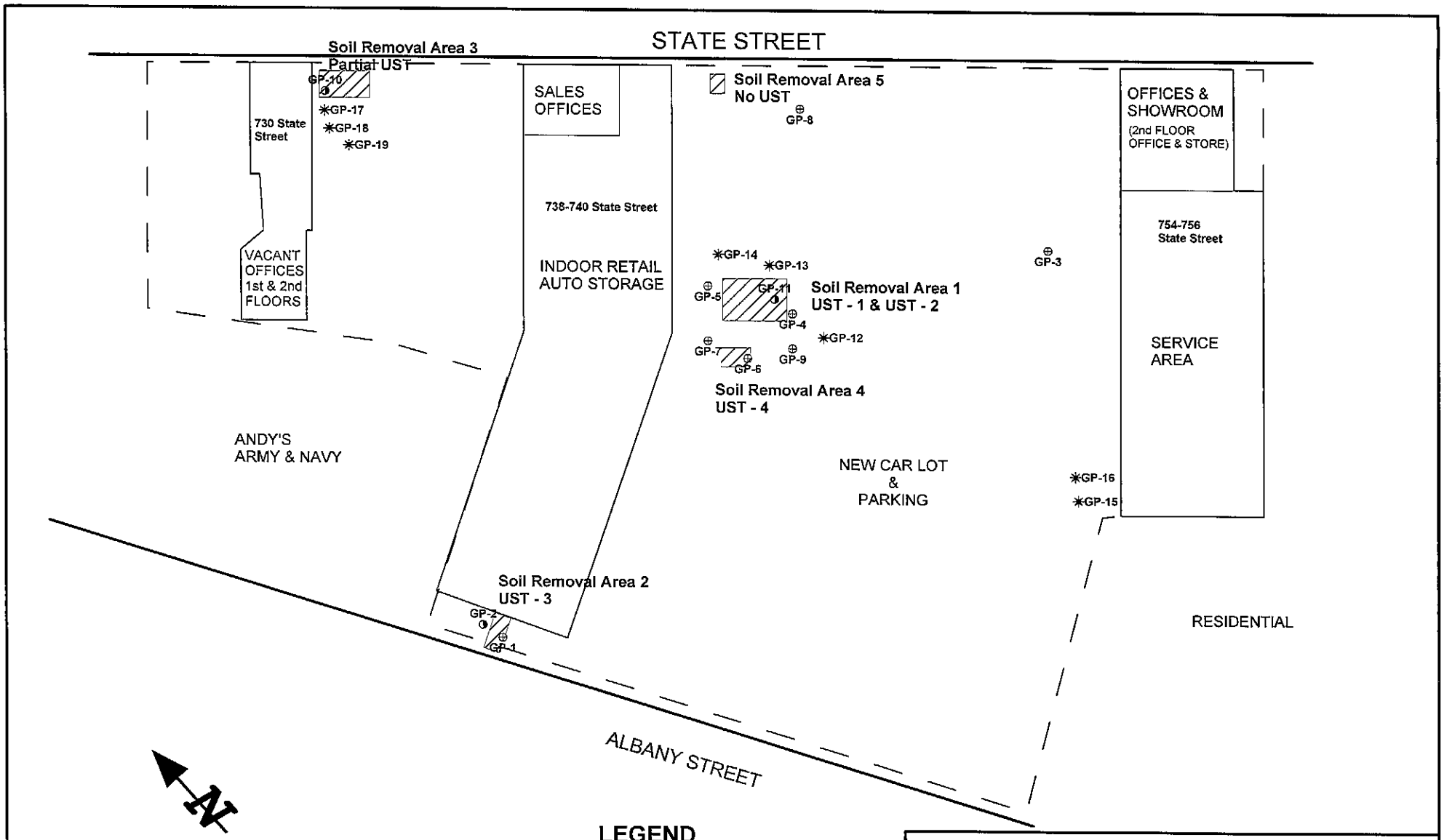
Site map based on 1990 Sanborn Map.
Soil removal areas and locations are approximated.

NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES CORP.
1476 Route 50, P.O. Box 2167, Ballston Spa, NY 12020
Phone: (518) 884-8545 Fax: (518) 884-9710 e-mail: jwink@attglobal.net

FIGURE 2: Soil Removal Areas
PROJECT: Mohawk Honda
728-756 State Street Schenectady, New York

Project # 02.08164	Scale: 1"=60.0'	Date 1/30/03

common/netc projects/sites/mohawk honda/phase 2/soil&ustremoval/maps/soil&ustremovalareas



LEGEND

- ◑ GP-2 — DPT Boring & Monitoring Well Location - January 2003
- ⊕ GP-4 — DPT Boring Location - January 2003
- ✳ GP-12 — DPT Boring Location - June 2003
- UST and Soil Removal Area - June 2003

NOTES:

- Site map based on 1990 Sanborn Map.
- DPT well locations are aproximated with in +/-10.0 feet.
- DPT Boring Locations are not to scale.
- DPT soil borings and monitoring wells installed by NETC in January of 2003.
- Do to soil removal services the DPT well have been removed.

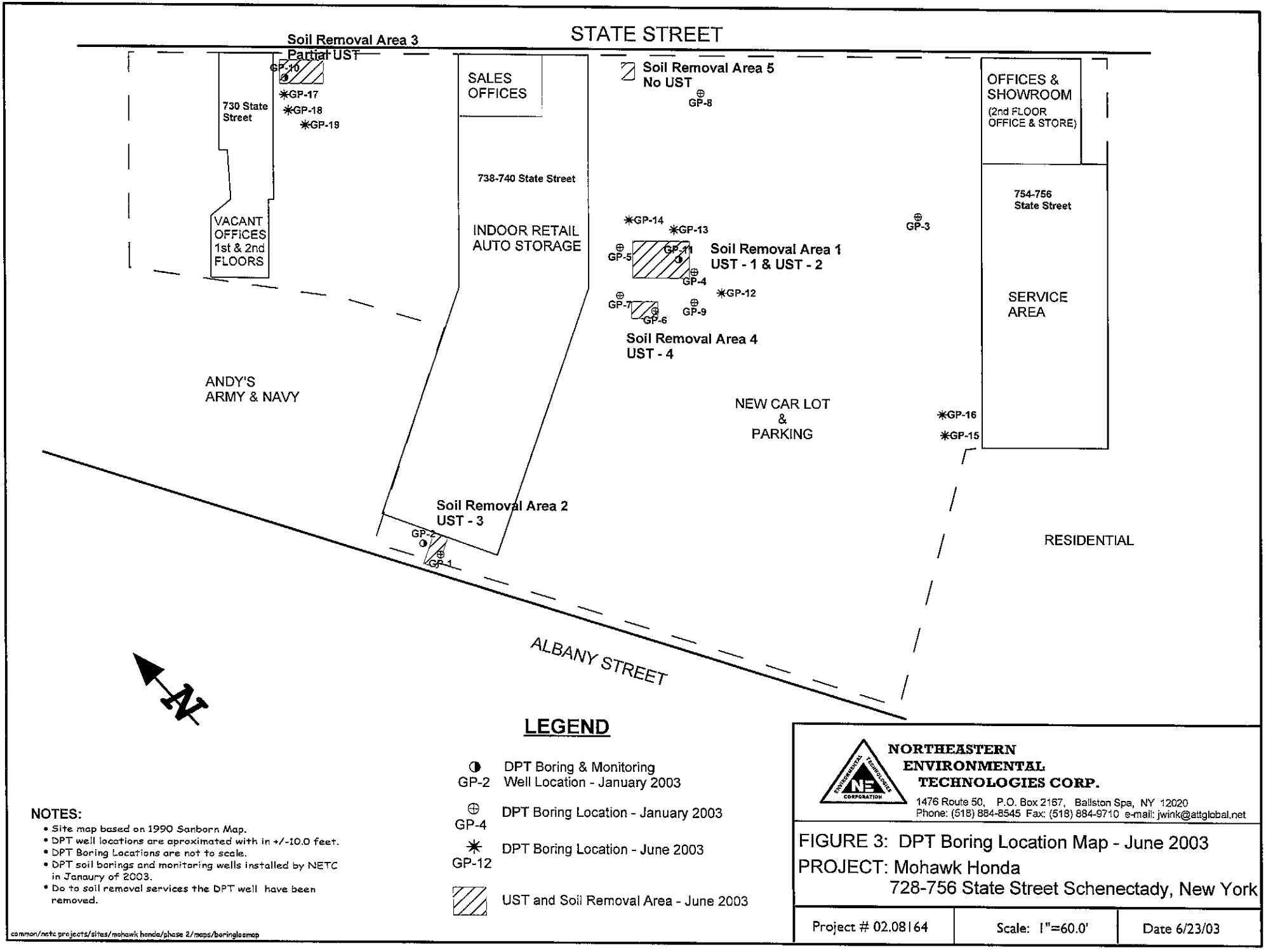
NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES CORP.
1476 Route 50, P.O. Box 2167, Ballston Spa, NY 12020
Phone: (518) 884-8545 Fax: (518) 884-9710 e-mail: jwink@attglobal.net

FIGURE 3: DPT Boring Location Map - June 2003

PROJECT: Mohawk Honda
728-756 State Street Schenectady, New York

Project # 02.08164	Scale: 1"=60.0'	Date 6/23/03

common/netc projects/sites/mohawk honda/phase 2/maps/boringlocmap



LEGEND

- ◑ GP-2 — DPT Boring & Monitoring Well Location - January 2003
- ⊕ GP-4 — DPT Boring Location - January 2003
- ✳ GP-12 — DPT Boring Location - June 2003
- UST and Soil Removal Area - June 2003

NOTES:

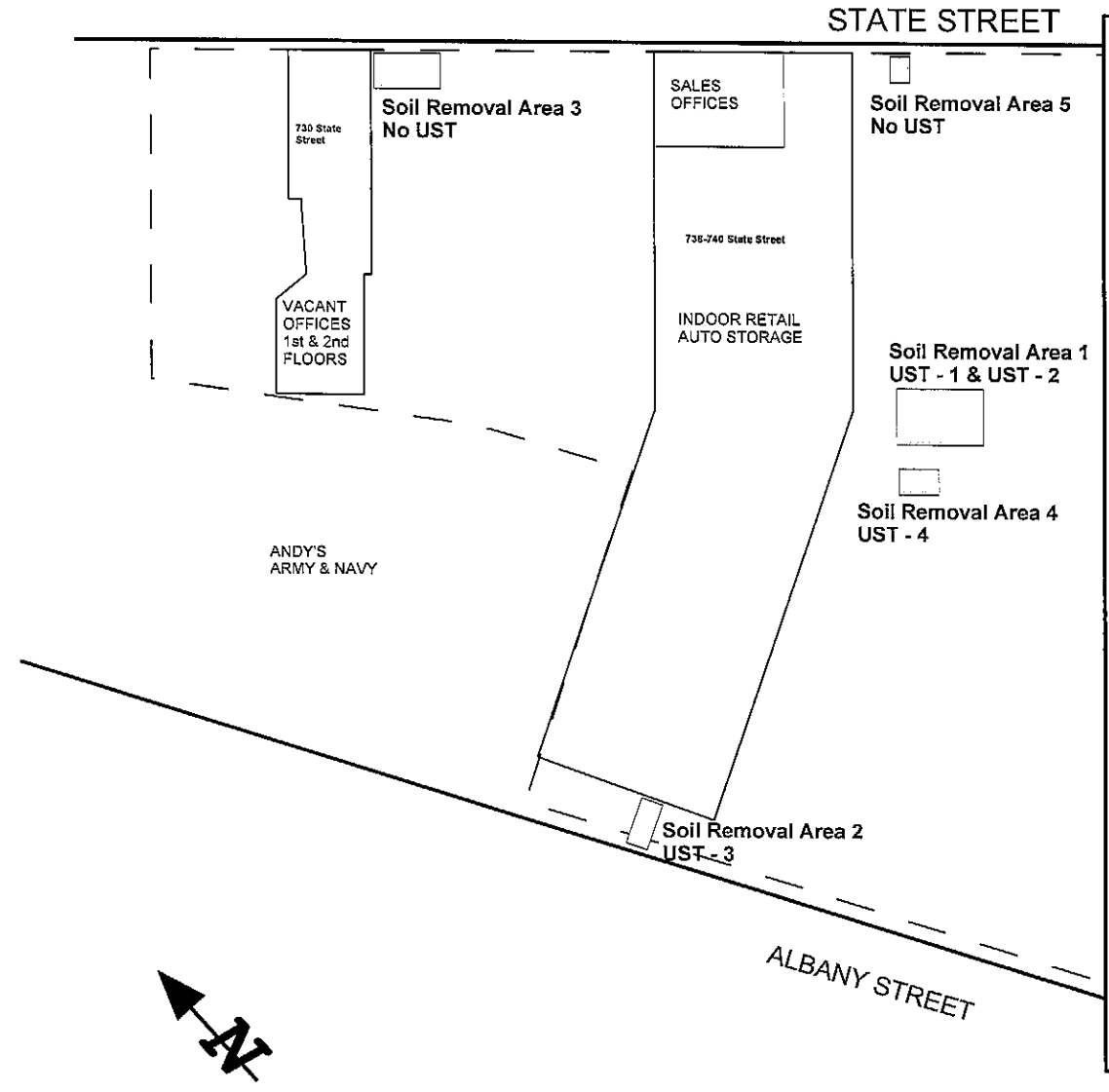
- Site map based on 1990 Sanborn Map.
- DPT well locations are aproximated with in +/-10.0 feet.
- DPT Boring Locations are not to scale.
- DPT soil borings and monitoring wells installed by NETC in Janaury of 2003.
- Do to soil removal services the DPT well have been removed.

common/netc projects/sites/mohawk honda/phase 2/maps/boringlocmap

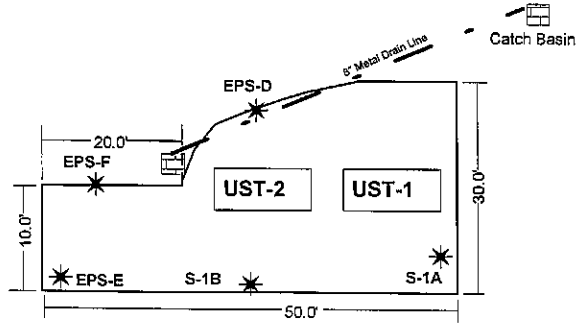
NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES CORP.
1476 Route 50, P.O. Box 2167, Ballston Spa, NY 12020
Phone: (518) 884-8545 Fax: (518) 884-9710 e-mail: jwink@attglobal.net

FIGURE 3: DPT Boring Location Map - June 2003
PROJECT: Mohawk Honda
728-756 State Street Schenectady, New York

Project # 02.08164	Scale: 1"=60.0'	Date 6/23/03



Soil Removal Area 1 / UST-1 & 2



Notes:

End point soil samples S-1A and S-1B were composited together to create on sample.

NOTES:

Site map based on 1990 Sanborn Map.
Soil removal areas and locations are approximated.

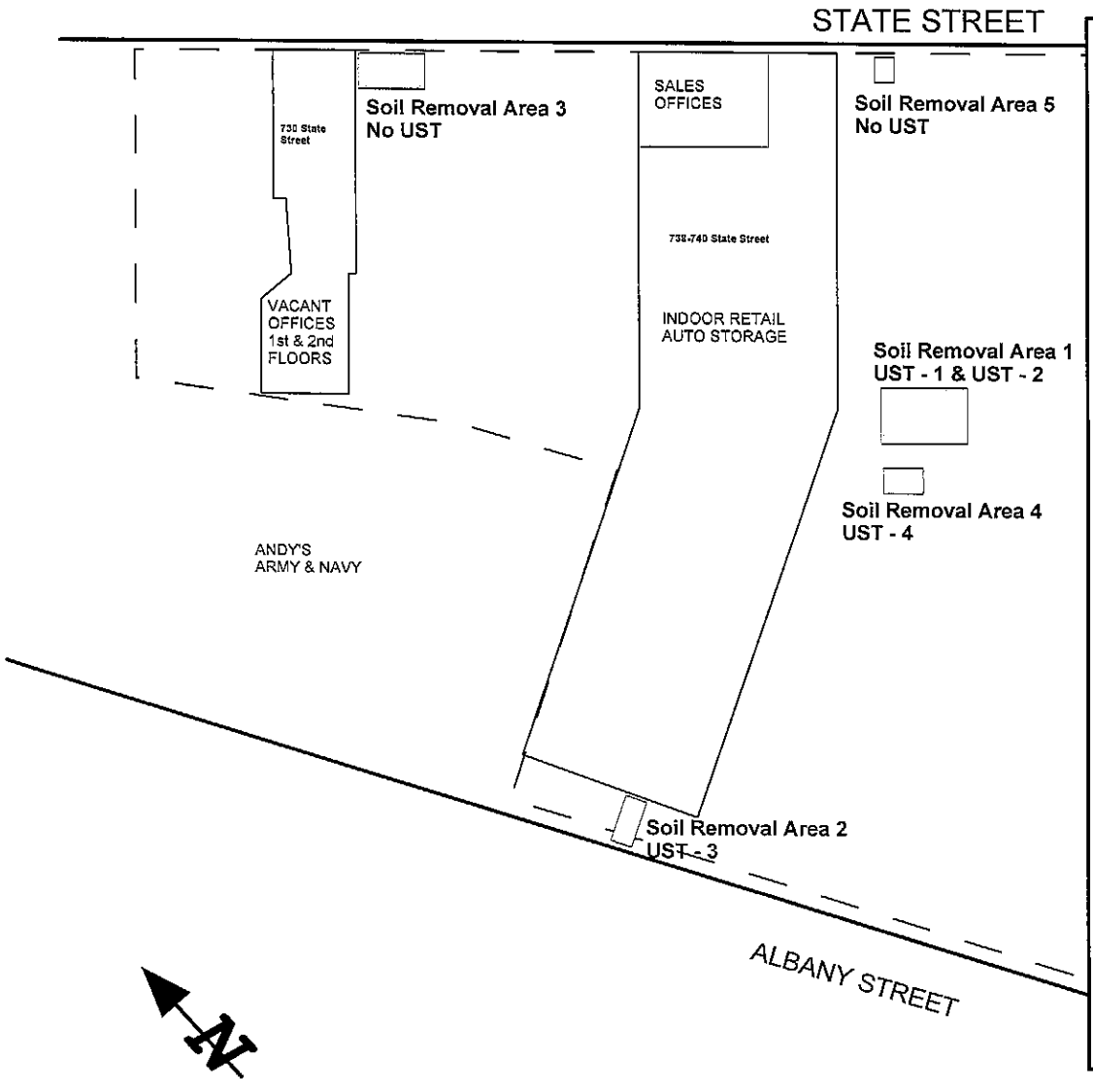
NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES CORP.
1476 Route 50, P.O. Box 2167, Ballston Spa, NY 12020
Phone: (518) 884-8545 Fax: (518) 884-9710 e-mail: jwink@attglobal.net

FIGURE 4: UST & Soil Removal Areas

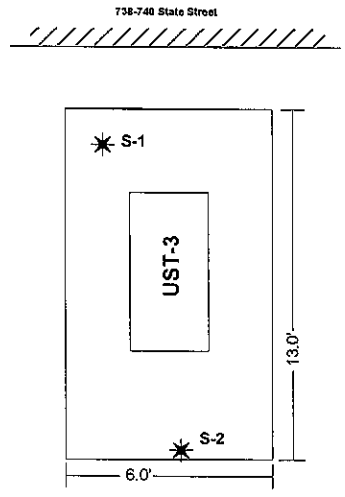
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728-756 State Street Schenectady, New York

Project # 02.08164	Scale: 1"=60.0'	Date 6/16/03

common/netc projects/sites/mohawk honda/phase 2/maps/gwcont2-5-03



Soil Removal Area 2 / UST-3



NOTES:

Site map based on 1990 Sanborn Map.
Soil removal areas and locations are approximated.

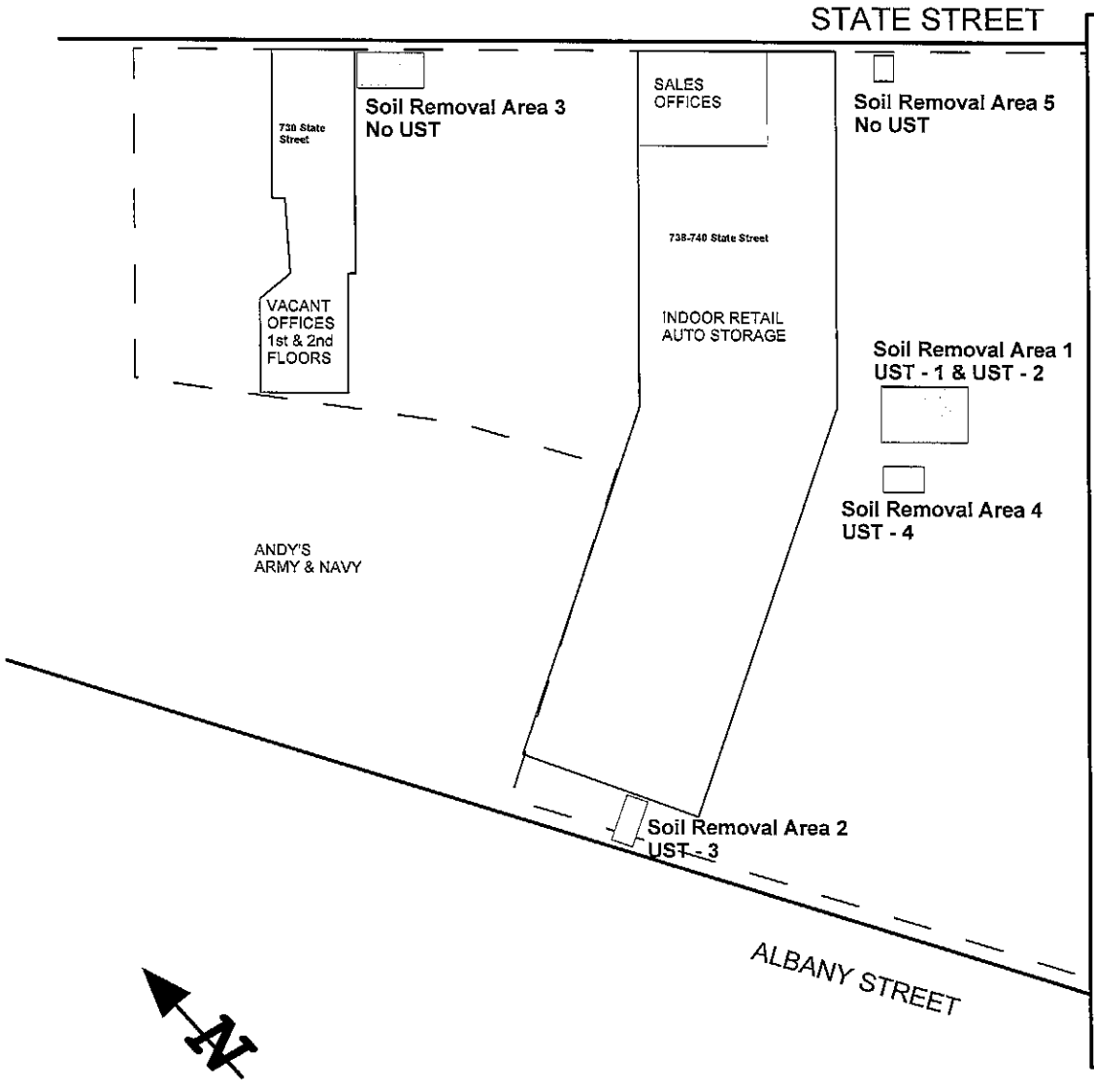
NORTHEASTERN
ENVIRONMENTAL
TECHNOLOGIES CORP.
1476 Route 50, P.O. Box 2167, Ballston Spa, NY 12020
Phone: (518) 884-8545 Fax: (518) 884-9710 e-mail: jwink@attglobal.net

FIGURE 5: UST & Soil Removal Areas

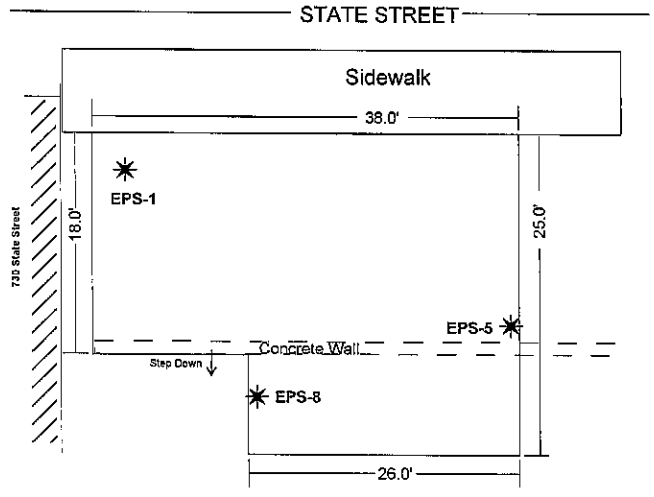
PROJECT: Mohawk Honda
728-756 State Street Schenectady, New York

Project # 02.08164	Scale: 1"=60.0'	Date 6/16/03

common/note projects/sites/mohawk honda/phase 2/maps/gwcont2-5-03



Soil Removal Area 3



NOTES:

Site map based on 1990 Sanborn Map.
Soil removal areas and locations are approximated.

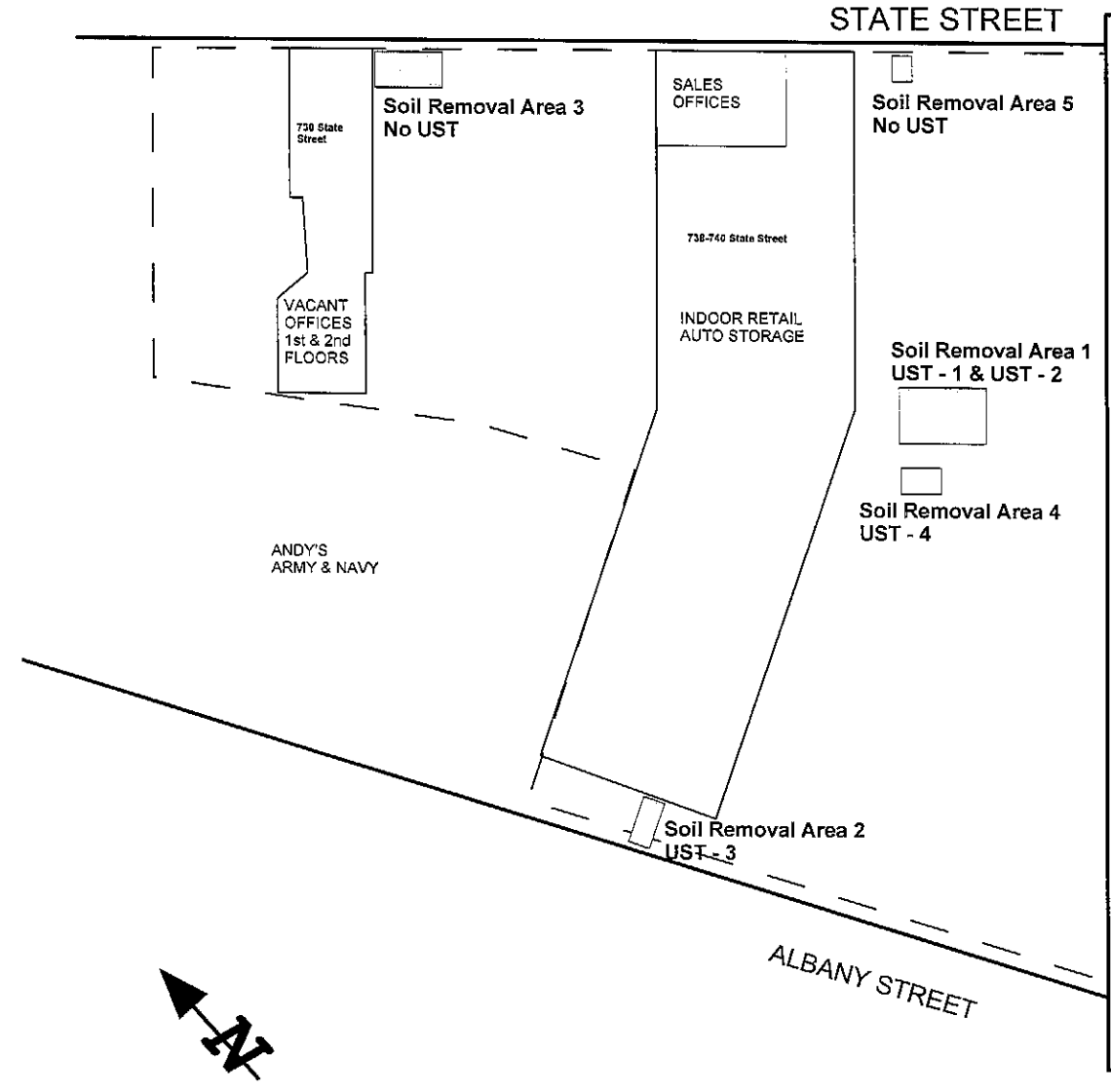
NORTHEASTERN
ENVIRONMENTAL
TECHNOLOGIES CORP.
1476 Route 50, P.O. Box 2167, Ballston Spa, NY 12020
Phone: (518) 884-8545 Fax: (518) 884-9710 e-mail: jwink@attglobal.net

FIGURE 6: UST & Soil Removal Areas

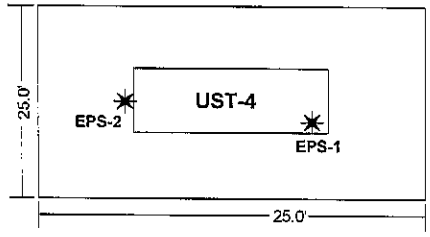
PROJECT: Mohawk Honda
728-756 State Street Schenectady, New York

Project # 02.08164	Scale: 1"=60.0'	Date 6/16/03

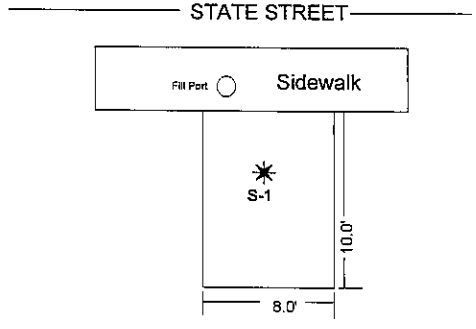
common/nets projects/sites/mohawk honda/phase 2/maps/gwcont2-5-03



Soil Removal Area 4 / UST-4



Soil Removal Area 5



NOTES:

Site map based on 1990 Sanborn Map.
Soil removal areas and locations are approximated.

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Phone: (518) 884-8545 Fax: (518) 884-9710 e-mail: jwink@attglobal.net

FIGURE 7: UST & Soil Removal Areas
PROJECT: Mohawk Honda
728-756 State Street Schenectady, New York

Project # 02.08164	Scale: 1"=60.0'	Date 6/16/03

common/neto projects/sites/mohawk honda/phase 2/maps/gwcont2-5-03

APPENDIX B

LIQUID WASTE BILL OF LADING RECEIPTS

NORTHEASTERN
ENVIRONMENTAL
TECHNOLOGIES CORP.
1476 Route 50, P.O. Box 2167, Ballston Spa, NY 12020
Phone: (518) 884-8545 Fax: (518) 884-9710 e-mail: jwink@attglobal.net

STRAIGHT BILL OF LADING

ORIGINAL NOT NEGOTIABLE

Shipper No. _____

Page 1 of 1 — MC Environmental Services — Carrier No. SA-175

(Name of carrier) (SCAC) — Date 6-18-03

On Collect on Delivery Shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 420, Sec. 1

TO:
Consignee Norlite Corp
Street S Saratoga Street
City Cohoes State NY Zip Code

FROM:
Shipper Ford - Dealership
Street State Street
City Schenectady State NY Zip Code
24 hr. Emergency Contact Tel. No. 1-800-451-8944

Route Best Way — Vehicle Number 051

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 T	X	Gasoline Tue Out Flammable	1330			
		NA 1203 PG II	GAL			
		SAN 217131	6/25/03			

PLACARDS TENDERED: YES ☒ NO ☐

Note – (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(b) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

TOTAL CHARGES: $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ — Check box if charges are to be collected

RECEIVED, subject to classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER Hondas Dealership
PER [signature]
6-18-03
Permanent post-office address of shipper

CARRIER MCES
PER Roger Cohen
DATE 6-18-03

STYLE F 260-3 LABELMASTER ● (800) 621-5808 www.labelmaster.com

1

JUN-25-2003 13:04 NORLITE LAB 518 233 8377 P.03/04

REPORT 1

BILL OF LADING

ORIGINAL NOT NEGOTIABLE

Page 1 of 1

HC Environmental Services
(Name of carrier) (SCAC)

Carrier No. 5A728

Date 6-19-03

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 420, Sec. 1

TO:
Consignee Norlite Corp
Street S Saratoga street
City Cohoes State NY Zip Code

FROM:
Shipper Honda Dealership
Street State street
City Schenectady State NY Zip Code
24 hr. Emergency Contact Tel. No. 1-800-451-8984

Route Best Way

Vehicle Number 051

No. of Units & Container Type	HM	BASIC DESCRIPTION Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 TT	X	Fuel Oil Waste Mixture	650			
			99L			
		SAP 017431				
			625/03			

PLACARDS TENDERED: YES ☒ NO ☐

Note – (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO:
ADDRESS

COD Amt: $

C.O.D. FEE:
PREPAID ☐
COLLECT ☐ $

TOTAL CHARGES: $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked
Check box if charges are to be collected ☐

RECEIVED, subject to classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER Honda Dealership
PER William Clark
6-19-03

CARRIER HCES
PER Roger Calen
DATE 6-19-03

Permanent post-office address of shipper

STYLE F 260-3 LABELMASTER® (800) 621-5808 www.labelmaster.com

1

JUN-20-2003 10:01 NORLITE LAB 518 233 8577 P.01/04

REPORT 1

PRINTED ON RECYCLED PAPER USING SOYBEAN INK — PRINTED WITH SOY INK

255755-DT

ATTENTION SHIPPERS! FREIGHT CHARGES ARE PREPAID ON THIS BILL OF LADING UNLESS MARKED COLLECT.

STRAIGHT BILL OF LADING

ORIGINAL – NOT NEGOTIABLE

Shipper No. _____

Page 1 of 1

MCE Environmental Services (Name of carrier)

Carrier No. SA-775

Mahwah NJ (SCAC)

Date 6-14-07

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 480, Sec. 1.

TO:
Consignee Norlite Corp
Street S Saratoga St Street
City Cohoes State NY Zip Code

FROM:
Shipper Action Honda
Street Rt 5
City Schenectady State NY Zip Code
24 hr. Emergency Contact Tel. No. 1-800-451-8884

Route Best Cross

Vehicle Number 052

No. of Units & Container Type	HM	BASIC DESCRIPTON Proper Shipping Name, Hazard Class, Identification Number (UN or NA), Packing Group, per 172.101, 172.202, 172.203	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 TT	X	Gasoline & Water Mixture 3 NA 1203 pg III	150 GAL			
		SAN217488				

PLACARDS TENDERED: YES ☐ NO ☐

Note – (1) Where the rate is dependent on value, shippeers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3)Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See section 2(e) of item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packed, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

TOTAL CHARGES: $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐
Check box if charges are to be collect ☐

RECEIVED, subject to classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER ~~Action Honda~~ Action Honda
PER William Cook

CARRIER MCES
PER Roger L Colvin
DATE

REPORT 1

1

APPENDIX C

SOIL QUALITY LABORATORY REPORTS

NORTHEASTERN
ENVIRONMENTAL
TECHNOLOGIES CORP.
1476 Route 50, P.O. Box 2167, Ballston Spa, NY 12020
Phone: (518) 884-8545 Fax: (518) 884-9710 e-mail: jwink@attglobal.net

TABLE 1

SOIL ANALYTICAL DATA (STARS 8021)

Mohawk Honda

728 - 756 State Street Schenectady, New York

Sampled from June 20 to July 1, 2003

PARAMETER	SOIL SAMPLE DESCRIPTION				
	Date Collected 6/20/03	Date Collected 6/30/03	Date Collected 7/01/03		
	UST-1 / S-1A&B	UST -1&2 / EPS-D	UST -1&2 / EPS-E	UST -1&2 / EPS-F	DEC
MTBE	<6.1	<5.9	<5.4	<6.0	1000
Benzene	<6.1	<5.9	<5.4	<6.0	60
Toluene	<6.1	<5.9	22.0	14	1500
Ethylbenzene	<6.1	<5.9	<5.4	11	5500
m-Xylene / p-Xylene	<6.1	<5.9	<5.4	49	1200
o-Xylene	<6.1	<5.9	<5.4	<6.0	1200
Isopropylbenzene	<6.1	<5.9	<5.4	17	-----*
n-Propylbenzene	<6.1	<5.9	<5.4	57	-----*
1,3,5- Trimethylbenzene	<6.1	<5.9	<5.4	51	-----*
tert-Butylbenzene	<6.1	<5.9	<5.4	<6.0	-----*
1,2,4- Trimethylbenzene	<6.1	<5.9	<5.4	288	-----*
sec-Butylbenzene	<6.1	<5.9	<5.4	29	-----*
p-Isopropyltoluene	<6.1	<5.9	41.0	8.7	-----*
n-Butylbenzene	<6.1	<5.9	<5.4	<6.0	-----*
Non-target peaks	Negative	Negative	Negative	**Positive#**	-----
Total VOC's	-----	-----	**63.0**	**126.0**	-----

Notes: All concentrations are in ug/kg or ppb (parts per billion)

DEC = NYSDEC - TAGM - Determination of Soil Cleanup Objectives and Cleanup Levels, 1994.

*= as per TAGM #4046; Total VOC <= 10ppm; Total SVOC <= 500ppm; Individual SVOC <= 50ppm

= Heavy Fuel Pattern

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

ANALYTICAL TEST RESULTS
N.Y.S.D.O.H. Lab ID#11140

CLIENT: Northeastern Environmental Technologies, Corp. DATE SAMPLED: 06/20/03

SAMPLE DESCRIPTION: UST 1/S-1 A-B/13.5'-15.5' TIME SAMPLED: 2:00 PM

MATRIX: Soil DATE SAMPLE RECD: 06/25/03

LOCATION: Mohawk Honda TYPE SAMPLE: Grab

H.E.S.#: 030625T01 SAMPLER: W.Cook/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	SW846-8260B	<6.1	ug/kg	07/03/03
Benzene	SW846-8260B	<6.1	ug/kg	07/03/03
Toluene	SW846-8260B	<6.1	ug/kg	07/03/03
Ethylbenzene	SW846-8260B	<6.1	ug/kg	07/03/03
m-Xylene\p-Xylene	SW846-8260B	<6.1	ug/kg	07/03/03
o-Xylene	SW846-8260B	<6.1	ug/kg	07/03/03
Isopropylbenzene	SW846-8260B	<6.1	ug/kg	07/03/03
n-Propylbenzene	SW846-8260B	<6.1	ug/kg	07/03/03
1,3,5-Trimethylbenzene	SW846-8260B	<6.1	ug/kg	07/03/03
tert,Butylbenzene	SW846-8260B	<6.1	ug/kg	07/03/03
1,2,4-Trimethylbenzene	SW846-8260B	<6.1	ug/kg	07/03/03
sec-Butylbenzene	SW846-8260B	<6.1	ug/kg	07/03/03
p-Isopropyltoluene	SW846-8260B	<6.1	ug/kg	07/03/03
n-Butylbenzene	SW846-8260B	<6.1	ug/kg	07/03/03
Non-Target Peaks		Negative		
Total Solids	EPA 160.3	82	%	06/26/03

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

ANALYTICAL TEST RESULTS
N.Y.S.D.O.H. Lab ID#11140

CLIENT: Northeastern Environmental Technologies, Corp.
SAMPLE DESCRIPTION:UST 1-2/EPS-D/12.5'
MATRIX: Soil
LOCATION: Mohawk Honda
H.E.S.#: 030709TT01

TIME SAMPLED: 06/30/03
TIME SAMPLED: 2:20 pm
DATE SAMPLE RECD: 07/09/03
TYPE SAMPLE: Grab
SAMPLER: W.Cook/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	SW846-8260B	<5.9	ug/kg	07/12/03
Benzene	SW846-8260B	<5.9	ug/kg	07/12/03
Toluene	SW846-8260B	<5.9	ug/kg	07/12/03
Ethylbenzene	SW846-8260B	<5.9	ug/kg	07/12/03
m-Xylene\p-Xylene	SW846-8260B	<5.9	ug/kg	07/12/03
o-Xylene	SW846-8260B	<5.9	ug/kg	07/12/03
Isopropylbenzene	SW846-8260B	<5.9	ug/kg	07/12/03
n-Propylbenzene	SW846-8260B	<5.9	ug/kg	07/12/03
1,3,5-Trimethylbenzene	SW846-8260B	<5.9	ug/kg	07/12/03
tert,Butylbenzene	SW846-8260B	<5.9	ug/kg	07/12/03
1,2,4-Trimethylbenzene	SW846-8260B	<5.9	ug/kg	07/12/03
sec-Butylbenzene	SW846-8260B	<5.9	ug/kg	07/12/03
p-Isopropyltoluene	SW846-8260B	<5.9	ug/kg	07/12/03
n-Butylbenzene	SW846-8260B	<5.9	ug/kg	07/12/03
Non-Target Peaks		Negative		
Total Solids	EPA 160.3	84	%	07/11/03

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Northeastern Environmental Technologies, Corp.
SAMPLE DESCRIPTION:UST 1-2/EPS-E/16.0'
MATRIX: Soil
LOCATION: Mohawk Honda
H.E.S.#: 030709TT02

TIME SAMPLED: 07/01/03
TIME SAMPLED: 9:25 am
DATE SAMPLE RECD: 07/09/03
TYPE SAMPLE: Grab
SAMPLER: W.Cook/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	SW846-8260B	<5.4	ug/kg	07/12/03
Benzene	SW846-8260B	<5.4	ug/kg	07/12/03
Toluene	SW846-8260B	22	ug/kg	07/12/03
Ethylbenzene	SW846-8260B	<5.4	ug/kg	07/12/03
m-Xylene\p-Xylene	SW846-8260B	<5.4	ug/kg	07/12/03
o-Xylene	SW846-8260B	<5.4	ug/kg	07/12/03
Isopropylbenzene	SW846-8260B	<5.4	ug/kg	07/12/03
n-Propylbenzene	SW846-8260B	<5.4	ug/kg	07/12/03
1,3,5-Trimethylbenzene	SW846-8260B	<5.4	ug/kg	07/12/03
tert,Butylbenzene	SW846-8260B	<5.4	ug/kg	07/12/03
1,2,4-Trimethylbenzene	SW846-8260B	<5.4	ug/kg	07/12/03
sec-Butylbenzene	SW846-8260B	<5.4	ug/kg	07/12/03
p-Isopropyltoluene	SW846-8260B	41	ug/kg	07/12/03
n-Butylbenzene	SW846-8260B	<5.4	ug/kg	07/12/03
Non-Target Peaks		Negative		
Total Solids	EPA 160.3	84	%	07/11/03

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Northeastern Environmental Technologies, Corp. TIME SAMPLED: 07/01/03

SAMPLE DESCRIPTION:UST 1-2/EPS-F/14.0' TIME SAMPLED: 10:00 am

MATRIX: Soil DATE SAMPLE RECD: 07/09/03

LOCATION: Mohawk Honda TYPE SAMPLE: Grab

H.E.S.#: 030709TT03 SAMPLER: W.Cook/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	SW846-8260B	<6.0	ug/kg	07/12/03
Benzene	SW846-8260B	<6.0	ug/kg	07/12/03
Toluene	SW846-8260B	14	ug/kg	07/12/03
Ethylbenzene	SW846-8260B	11	ug/kg	07/12/03
m-Xylene\p-Xylene	SW846-8260B	49	ug/kg	07/12/03
o-Xylene	SW846-8260B	<6.0	ug/kg	07/12/03
Isopropylbenzene	SW846-8260B	17	ug/kg	07/12/03
n-Propylbenzene	SW846-8260B	57	ug/kg	07/12/03
1,3,5-Trimethylbenzene	SW846-8260B	51	ug/kg	07/12/03
tert,Butylbenzene	SW846-8260B	<6.0	ug/kg	07/12/03
1,2,4-Trimethylbenzene	SW846-8260B	288	ug/kg	07/12/03
sec-Butylbenzene	SW846-8260B	29	ug/kg	07/12/03
p-Isopropyltoluene	SW846-8260B	8.7	ug/kg	07/12/03
n-Butylbenzene	SW846-8260B	<6.0	ug/kg	07/12/03
Non-Target Peaks		Positive*		
*Heavy fuel pattern.				
Total Solids	EPA 160.3	83	%	07/11/03

All results on a dry weight.

Approval By: MLH

Date: 7/23/03

Hudson Environmental Services, Inc. certifies that the services provided were performed in accordance with the New York State Department of Health, Environmental Laboratory Approval Program certification manual. In the event of an error, HES's sole responsibility will be to perform reanalysis at its own expense. HES, Inc. assumes no other liability for damages incurred from the interpretation or use of the analysis provided.

SOIL REMOVAL AREA 2 / UST-3

END POINT SOIL QUALITY

NORTHEASTERN
ENVIRONMENTAL
TECHNOLOGIES CORP.

TABLE 2

SOIL ANALYTICAL DATA (STARS 8021 / 8270)

Mohawk Honda

728 - 756 State Street Schenectady, New York

Sampled on June 19, 2003

PARAMETER	SOIL SAMPLE DESCRIPTION		DEC
	UST-3 / S-1	UST-3 / S-2	
MTBE	<5.8	<6.2	1000
Benzene	<5.8	<6.2	60
Toluene	<5.8	<6.2	1500
Ethylbenzene	66.0	<6.2	5500
m-Xylene / p-Xylene	27.0	<6.2	1200
o-Xylene	282.0	<6.2	1200
Isopropylbenzene	232.0	<6.2	-----*
n-Propylbenzene	715.0	<6.2	-----*
1,3,5- Trimethylbenzene	3,638.0	<6.2	-----*
tert-Butylbenzene	128.0	<6.2	-----*
1,2,4- Trimethylbenzene	165.0	<6.2	-----*
sec-Butylbenzene	1,041.0	<6.2	-----*
p-Isopropyltoluene	1,020.0	<6.2	-----*
n-Butylbenzene	14.0	<6.2	-----*
Total VOC's	7,328.0	-----	10000*
Naphthalene	2,078.0	<407	13000
Acenaphthene	<384	<407	50,000*
Fluorene	<384	<407	50,000*
Phenanthrene	<384	<407	50,000*
Anthracene	<384	<407	50,000*
Fluoranthene	<384	<407	50,000*
Pyrene	<384	<407	50,000*
Benzo(a)anthracene	<384	<407	224 or MDL
Chrysene	<384	<407	400
Benzo(b)fluoranthene	<384	<407	1100
Benzo(k)fluoranthene	<384	<407	1100
Benzo(a)pyrene	<384	<407	61 or MDL
Indeno(1,2,3-cd)pyrene	<384	<407	3200
Dibenz(a,h)anthrancene	<384	<407	14 or MDL
Benzo(g,h,i)perylene	<384	<407	50,000*
Total SVOCs	2,078.0	-----	500,000
Non-target peaks	Positive#	Positive#	-----
Total VOC & SVOC	9,406.0	-----	-----

Notes: All concentrations are in ug/kg or ppb (parts per billion)
DEC = NYSDEC - TAGM - Determination of Soil Cleanup Objectives and Cleanup Levels, 1994.
*= as per TAGM #4046; Total VOC <= 10ppm; Total SVOC <= 500ppm; Individual SVOC <= 50ppm
= Heavy Fuel Pattern

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Northeastern Environmental Technologies, Corp. DATE SAMPLED: 06/19/03

SAMPLE DESCRIPTION: UST 3/S-1/7.0' TIME SAMPLED: 4:00 PM

MATRIX: Soil DATE SAMPLE RECD: 06/25/03

LOCATION: Mohawk Honda TYPE SAMPLE: Grab

H.E.S.#: 030625T02 SAMPLER: W.Cook/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	SW846-8260B	<5.8	ug/kg	07/03/03
Benzene	SW846-8260B	<5.8	ug/kg	07/03/03
Toluene	SW846-8260B	<5.8	ug/kg	07/03/03
Ethylbenzene	SW846-8260B	66	ug/kg	07/03/03
m-Xylene\p-Xylene	SW846-8260B	27	ug/kg	07/03/03
o-Xylene	SW846-8260B	282	ug/kg	07/03/03
Isopropylbenzene	SW846-8260B	232	ug/kg	07/03/03
n-Propylbenzene	SW846-8260B	715	ug/kg	07/03/03
1,3,5-Trimethylbenzene	SW846-8260B	3,638	ug/kg	07/03/03
tert,Butylbenzene	SW846-8260B	128	ug/kg	07/03/03
1,2,4-Trimethylbenzene	SW846-8260B	165	ug/kg	07/03/03
sec-Butylbenzene	SW846-8260B	1,041	ug/kg	07/03/03
p-Isopropyltoluene	SW846-8260B	1,020	ug/kg	07/03/03
n-Butylbenzene	SW846-8260B	14	ug/kg	07/03/03
Naphthalene	SW846-8270C	2,078	ug/kg	06/26/03
Acenaphthene	SW846-8270C	<384	ug/kg	06/26/03
Fluorene	SW846-8270C	<384	ug/kg	06/26/03
Phenanthrene	SW846-8270C	<384	ug/kg	06/26/03
Anthracene	SW846-8270C	<384	ug/kg	06/26/03
Fluoranthene	SW846-8270C	<384	ug/kg	06/26/03
Pyrene	SW846-8270C	<384	ug/kg	06/26/03
Benzo (a) anthracene	SW846-8270C	<384	ug/kg	06/26/03
Chrysene	SW846-8270C	<384	ug/kg	06/26/03
Benzo (b) fluoranthene	SW846-8270C	<384	ug/kg	06/26/03
Benzo (k) fluoranthene	SW846-8270C	<384	ug/kg	06/26/03
Benzo (a) pyrene	SW846-8270C	<384	ug/kg	06/26/03
Indeno (1,2,3-CD) pyrene	SW846-8270C	<384	ug/kg	06/26/03
Dibenz (a,h) anthracene	SW846-8270C	<384	ug/kg	06/26/03
Benzo (g,h,i) perylene	SW846-8270C	<384	ug/kg	06/26/03
Non-Target Peaks		Positive*		
*Heavy fuel pattern.				
Total Solids	EPA 160.3	86	%	06/26/03

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Northeastern Environmental Technologies, Corp. DATE SAMPLED: 06/19/03
SAMPLE DESCRIPTION: UST 3/S-2/7.0' TIME SAMPLED: 4:00 PM
MATRIX: Soil DATE SAMPLE RECD: 06/25/03
LOCATION: Mohawk Honda TYPE SAMPLE: Grab
H.E.S.#: 030625T03 SAMPLER: W.Cook/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	SW846-8260B	<6.2	ug/kg	07/03/03
Benzene	SW846-8260B	<6.2	ug/kg	07/03/03
Toluene	SW846-8260B	<6.2	ug/kg	07/03/03
Ethylbenzene	SW846-8260B	<6.2	ug/kg	07/03/03
m-Xylene\p-Xylene	SW846-8260B	<6.2	ug/kg	07/03/03
o-Xylene	SW846-8260B	<6.2	ug/kg	07/03/03
Isopropylbenzene	SW846-8260B	<6.2	ug/kg	07/03/03
n-Propylbenzene	SW846-8260B	<6.2	ug/kg	07/03/03
1,3,5-Trimethylbenzene	SW846-8260B	<6.2	ug/kg	07/03/03
tert,Butylbenzene	SW846-8260B	<6.2	ug/kg	07/03/03
1,2,4-Trimethylbenzene	SW846-8260B	<6.2	ug/kg	07/03/03
sec-Butylbenzene	SW846-8260B	<6.2	ug/kg	07/03/03
p-Isopropyltoluene	SW846-8260B	<6.2	ug/kg	07/03/03
n-Butylbenzene	SW846-8260B	<6.2	ug/kg	07/03/03
Naphthalene	SW846-8270C	<407	ug/kg	06/26/03
Acenaphthene	SW846-8270C	<407	ug/kg	06/26/03
Fluorene	SW846-8270C	<407	ug/kg	06/26/03
Phenanthrene	SW846-8270C	<407	ug/kg	06/26/03
Anthracene	SW846-8270C	<407	ug/kg	06/26/03
Fluoranthene	SW846-8270C	<407	ug/kg	06/26/03
Pyrene	SW846-8270C	<407	ug/kg	06/26/03
Benzo (a) anthracene	SW846-8270C	<407	ug/kg	06/26/03
Chrysene	SW846-8270C	<407	ug/kg	06/26/03
Benzo (b) fluoranthene	SW846-8270C	<407	ug/kg	06/26/03
Benzo (k) fluoranthene	SW846-8270C	<407	ug/kg	06/26/03
Benzo (a) pyrene	SW846-8270C	<407	ug/kg	06/26/03
Indeno (1,2,3-CD) pyrene	SW846-8270C	<407	ug/kg	06/26/03
Dibenz (a,h) anthracene	SW846-8270C	<407	ug/kg	06/26/03
Benzo (g,h,i) perylene	SW846-8270C	<407	ug/kg	06/26/03
Non-Target Peaks		Positive*		
*Slight heavy fuel pattern.				
Total Solids	EPA 160.3	81	%	06/26/03

All results on a dry weight.
Approval By: [signature]
Date: 7/14/03

Hudson Environmental Services, Inc. certifies that the services provided were performed in accordance with the New York State Department of Health, Environmental Laboratory Approval Program certification manual. In the event of an error, HES's sole responsibility will be to perform reanalysis at its own expense. HES, Inc. assumes no other liability for damages incurred from the interpretation or use of the analysis provided.

SOIL REMOVAL AREA 3

END POINT SOIL QUALITY

NORTHEASTERN
ENVIRONMENTAL
TECHNOLOGIES CORP.

TABLE 3

SOIL ANALYTICAL DATA (STARS 8021 / 8270)

Mohawk Honda

728 - 756 State Street Schenectady, New York

Sampled on June 27, 2003

PARAMETER	SOIL SAMPLE DESCRIPTION			DEC
	Area 3 / EPS-1	Area 3 / EPS-5	Area 3 / EPS-8	
MTBE	<6.3	<6.7	<5.9	1000
Benzene	<6.3	<6.7	<5.9	60
Toluene	<6.3	<6.7	<5.9	1500
Ethylbenzene	<6.3	<6.7	<5.9	5500
m-Xylene / p-Xylene	<6.3	<6.7	<5.9	1200
o-Xylene	<6.3	<6.7	<5.9	1200
Isopropylbenzene	<6.3	<6.7	<5.9	-----*
n-Propylbenzene	<6.3	<6.7	<5.9	-----*
1,3,5- Trimethylbenzene	<6.3	<6.7	<5.9	-----*
tert-Butylbenzene	<6.3	<6.7	<5.9	-----*
1,2,4- Trimethylbenzene	<6.3	<6.7	<5.9	-----*
sec-Butylbenzene	<6.3	<6.7	225.0	-----*
p-Isopropyltoluene	32.0	<6.7	<5.9	-----*
n-Butylbenzene	<6.3	<6.7	<5.9	-----*
Total VOC's	32.0	-----	225.0	10000*
Naphthalene	<418	<440	<388	13000
Acenaphthene	<418	<440	<388	50,000*
Fluorene	<418	<440	<388	50,000*
Phenanthrene	<418	<440	<388	50,000*
Anthracene	<418	<440	<388	50,000*
Fluoranthene	<418	<440	<388	50,000*
Pyrene	<418	<440	<388	50,000*
Benzo(a)anthracene	<418	<440	<388	224 or MDL
Chrysene	<418	<440	<388	400
Benzo(b)fluoranthene	<418	<440	<388	1100
Benzo(k)fluoranthene	<418	<440	<388	1100
Benzo(a)pyrene	<418	<440	<388	61 or MDL
Indeno(1,2,3-cd)pyrene	<418	<440	<388	3200
Dibenz(a,h)anthrancene	<418	<440	<388	14 or MDL
Benzo(g,h,i)perylene	<418	<440	<388	50,000*
Total SVOCs	-----	-----	-----	500,000
Non-target peaks	Positive#	Negative	Positive#	-----
Total VOC & SVOC	32.0	-----	225.0	-----

Notes: All concentrations are in ug/kg or ppb (parts per billion)
DEC = NYSDEC - TAGM - Determination of Soil Cleanup Objectives and Cleanup Levels, 1994.
*= as per TAGM #4046; Total VOC <= 10ppm; Total SVOC <= 500ppm; Individual SVOC <= 50ppm
= Heavy Fuel Pattern

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

ANALYTICAL TEST RESULTS
N.Y.S.D.O.H. Lab ID#11140

CLIENT: Northeastern Environmental Services, Inc.
SAMPLE DESCRIPTION: Area 3/EPS-1/14.5'
MATRIX: Soil
LOCATION: Mohawk Honda
H.E.S.#: 030701H01

DATE SAMPLED: 06/27/03
TIME SAMPLED: 10:00 AM
DATE SAMPLE RECD: 07/01/03
TYPE SAMPLE: Grab
SAMPLER: W.Cook/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	SW846-8260B	<6.3	ug/kg	07/11/03
Benzene	SW846-8260B	<6.3	ug/kg	07/11/03
Toluene	SW846-8260B	<6.3	ug/kg	07/11/03
Ethylbenzene	SW846-8260B	<6.3	ug/kg	07/11/03
m-Xylene\p-Xylene	SW846-8260B	<6.3	ug/kg	07/11/03
o-Xylene	SW846-8260B	<6.3	ug/kg	07/11/03
Isopropylbenzene	SW846-8260B	<6.3	ug/kg	07/11/03
n-Propylbenzene	SW846-8260B	<6.3	ug/kg	07/11/03
1,3,5-Trimethylbenzene	SW846-8260B	<6.3	ug/kg	07/11/03
tert,Butylbenzene	SW846-8260B	<6.3	ug/kg	07/11/03
1,2,4-Trimethylbenzene	SW846-8260B	<6.3	ug/kg	07/11/03
sec-Butylbenzene	SW846-8260B	<6.3	ug/kg	07/11/03
p-Isopropyltoluene	SW846-8260B	32	ug/kg	07/11/03
n-Butylbenzene	SW846-8260B	<6.3	ug/kg	07/11/03
Naphthalene	SW846-8270C	<410	ug/kg	07/17/03
Acenaphthene	SW846-8270C	<410	ug/kg	07/17/03
Fluorene	SW846-8270C	<410	ug/kg	07/17/03
Phenanthrene	SW846-8270C	<410	ug/kg	07/17/03
Anthracene	SW846-8270C	<410	ug/kg	07/17/03
Fluoranthene	SW846-8270C	<410	ug/kg	07/17/03
Pyrene	SW846-8270C	<410	ug/kg	07/17/03
Benzo (a) anthracene	SW846-8270C	<410	ug/kg	07/17/03
Chrysene	SW846-8270C	<410	ug/kg	07/17/03
Benzo (b) fluoranthene	SW846-8270C	<410	ug/kg	07/17/03
Benzo (k) fluoranthene	SW846-8270C	<410	ug/kg	07/17/03
Benzo (a) pyrene	SW846-8270C	<410	ug/kg	07/17/03
Indeno (1,2,3-CD) pyrene	SW846-8270C	<410	ug/kg	07/17/03
Dibenz (a,h) anthracene	SW846-8270C	<410	ug/kg	07/17/03
Benzo (g,h,i) perylene	SW846-8270C	<410	ug/kg	07/17/03
Non-Target Peaks		Positive*		
*Heavy fuel pattern present.				
Total Solids	EPA 160.3	79	%	07/11/03

REPORT 1

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Northeastern Environmental Services, Inc.
SAMPLE DESCRIPTION: Area 3/EES-5/17.0'
MATRIX: Soil
LOCATION: Mohawk Honda
H.E.S.#: 030701H02

DATE SAMPLED: 06/27/03
TIME SAMPLED: 11:39 AM
DATE SAMPLE RECD: 07/01/03
TYPE SAMPLE: Grab
SAMPLER: W.Cook/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	SW846-8260B	<6.7	ug/kg	07/11/03
Benzene	SW846-8260B	<6.7	ug/kg	07/11/03
Toluene	SW846-8260B	<6.7	ug/kg	07/11/03
Ethylbenzene	SW846-8260B	<6.7	ug/kg	07/11/03
m-Xylene\p-Xylene	SW846-8260B	<6.7	ug/kg	07/11/03
o-Xylene	SW846-8260B	<6.7	ug/kg	07/11/03
Isopropylbenzene	SW846-8260B	<6.7	ug/kg	07/11/03
n-Propylbenzene	SW846-8260B	<6.7	ug/kg	07/11/03
1,3,5-Trimethylbenzene	SW846-8260B	<6.7	ug/kg	07/11/03
tert,Butylbenzene	SW846-8260B	<6.7	ug/kg	07/11/03
1,2,4-Trimethylbenzene	SW846-8260B	<6.7	ug/kg	07/11/03
sec-Butylbenzene	SW846-8260B	<6.7	ug/kg	07/11/03
p-Isopropyltoluene	SW846-8260B	<6.7	ug/kg	07/11/03
n-Butylbenzene	SW846-8260B	<6.7	ug/kg	07/11/03
Naphthalene	SW846-8270C	<440	ug/kg	07/17/03
Acenaphthene	SW846-8270C	<440	ug/kg	07/17/03
Fluorene	SW846-8270C	<440	ug/kg	07/17/03
Phenanthrene	SW846-8270C	<440	ug/kg	07/17/03
Anthracene	SW846-8270C	<440	ug/kg	07/17/03
Fluoranthene	SW846-8270C	<440	ug/kg	07/17/03
Pyrene	SW846-8270C	<440	ug/kg	07/17/03
Benzo (a) anthracene	SW846-8270C	<440	ug/kg	07/17/03
Chrysene	SW846-8270C	<440	ug/kg	07/17/03
Benzo (b) fluoranthene	SW846-8270C	<440	ug/kg	07/17/03
Benzo (k) fluoranthene	SW846-8270C	<440	ug/kg	07/17/03
Benzo (a) pyrene	SW846-8270C	<440	ug/kg	07/17/03
Indeno (1,2,3-CD) pyrene	SW846-8270C	<440	ug/kg	07/17/03
Dibenz (a,h) anthracene	SW846-8270C	<440	ug/kg	07/17/03
Benzo (g,h,i) perylene	SW846-8270C	<440	ug/kg	07/17/03
Non-Target Peaks		Negative		
Total Solids	EPA 160.3	75	%	07/11/03

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Northeastern Environmental Services, Inc.
SAMPLE DESCRIPTION: Area 3/EPS-9/13,0'
MATRIX: Soil
LOCATION: Mohawk Honda
H.E.S.#: 030701H03

DATE SAMPLED: 06/27/03
TIME SAMPLED: 2:05 PM
DATE SAMPLE RECD: 07/01/03
TYPE SAMPLE: Grab
SAMPLER: W.Cook/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	SW846-8260B	<5.9	ug/kg	07/11/03
Benzene	SW846-8260B	<5.9	ug/kg	07/11/03
Toluene	SW846-8260B	<5.9	ug/kg	07/11/03
Ethylbenzene	SW846-8260B	<5.9	ug/kg	07/11/03
m-Xylene\p-Xylene	SW846-8260B	<5.9	ug/kg	07/11/03
o-Xylene	SW846-8260B	<5.9	ug/kg	07/11/03
Isopropylbenzene	SW846-8260B	<5.9	ug/kg	07/11/03
n-Propylbenzene	SW846-8260B	<5.9	ug/kg	07/11/03
1,3,5-Trimethylbenzene	SW846-8260B	<5.9	ug/kg	07/11/03
tert,Butylbenzene	SW846-8260B	<5.9	ug/kg	07/11/03
1,2,4-Trimethylbenzene	SW846-8260B	<5.9	ug/kg	07/11/03
sec-Butylbenzene	SW846-8260B	225	ug/kg	07/11/03
p-Isopropyltoluene	SW846-8260B	<5.9	ug/kg	07/11/03
n-Butylbenzene	SW846-8260B	<5.9	ug/kg	07/11/03
Naphthalene	SW846-8270C	<380	ug/kg	07/17/03
Acenaphthene	SW846-8270C	<380	ug/kg	07/17/03
Fluorene	SW846-8270C	<380	ug/kg	07/17/03
Phenanthrene	SW846-8270C	<380	ug/kg	07/17/03
Anthracene	SW846-8270C	<380	ug/kg	07/17/03
Fluoranthene	SW846-8270C	<380	ug/kg	07/17/03
Pyrene	SW846-8270C	<380	ug/kg	07/17/03
Benzo (a) anthracene	SW846-8270C	<380	ug/kg	07/17/03
Chrysene	SW846-8270C	<380	ug/kg	07/17/03
Benzo (b) fluoranthene	SW846-8270C	<380	ug/kg	07/17/03
Benzo (k) fluoranthene	SW846-8270C	<380	ug/kg	07/17/03
Benzo (a) pyrene	SW846-8270C	<380	ug/kg	07/17/03
Indeno (1,2,3-CD) pyrene	SW846-8270C	<380	ug/kg	07/17/03
Dibenz (a,h) anthracene	SW846-8270C	<380	ug/kg	07/17/03
Benzo (g,h,i) perylene	SW846-8270C	<380	ug/kg	07/17/03
Non-Target Peaks		Positive*		
Total Solids	EPA 160.3	85	%	07/11/03

*Heavy fuel pattern present.

All results on a dry weight.
Approval By: [signature]
Date: 7-25-03

Hudson Environmental Services, Inc. certifies that the services provided were performed in accordance with the New York State Department of Health, Environmental Laboratory Approval Program certification manual. In the event of an error, HES's sole responsibility will be to perform reanalysis at its own expense. HES, Inc. assumes no other liability for damages incurred from the interpretation or use of the analysis provided.

SOIL REMOVAL AREA 4 / UST-4

END POINT SOIL QUALITY

NORTHEASTERN
ENVIRONMENTAL
TECHNOLOGIES CORP.

TABLE 4

SOIL ANALYTICAL DATA (STARS 8021)

Mohawk Honda

728 - 756 State Street Schenectady, New York

Sampled on July 2, 2003

PARAMETER	SOIL SAMPLE DESCRIPTION		DEC
	UST-4 / EPS-1	UST-4 / EPS-2	
MTBE	<5.4	<6.2	**1000**
Benzene	<5.4	**172.0**	**60**
Toluene	<5.4	1,056.0	**1500**
Ethylbenzene	<5.4	295.0	**5500**
m-Xylene / p-Xylene	<5.4	**1,364.0**	**1200**
o-Xylene	<5.4	584.0	**1200**
Isopropylbenzene	<5.4	38.0	-----*
n-Propylbenzene	<5.4	122.0	-----*
1,3,5- Trimethylbenzene	<5.4	206.0	-----*
tert-Butylbenzene	<5.4	70.0	-----*
1,2,4- Trimethylbenzene	<5.4	850.0	-----*
sec-Butylbenzene	<5.4	8.5	-----*
p-Isopropyltoluene	<5.4	25.0	-----*
n-Butylbenzene	<5.4	<6.2	-----*
Non-target peaks	Negative	**Positive#**	-----
Total VOC's	-----	**4,790.5**	-----

Notes: All concentrations are in ug/kg or ppb (parts per billion)
DEC = NYSDEC - TAGM - Determination of Soil Cleanup Objectives and Cleanup Levels, 1994.
*= as per TAGM #4046; Total VOC <= 10ppm; Total SVOC <= 500ppm; Individual SVOC <= 50ppm
= Heavy Fuel Pattern

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

ANALYTICAL TEST RESULTS
N.Y.S.D.O.H. Lab ID#11140

CLIENT: Northeastern Environmental Technologies, Corp.
DATE SAMPLED: 07/02/03

SAMPLE DESCRIPTION: UST 4/EPS-1/10'- 12'
TIME SAMPLED: 3:00 pm

MATRIX: Soil
DATE SAMPLE RECD: 07/07/03

LOCATION: Mohawk Honda
TYPE SAMPLE: Composite

H.E.S.#: 030707F01
SAMPLER: W.Cook/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	SW846-8260B	<5.4	ug/kg	07/12/03
Benzene	SW846-8260B	<5.4	ug/kg	07/12/03
Toluene	SW846-8260B	<5.4	ug/kg	07/12/03
Ethylbenzene	SW846-8260B	<5.4	ug/kg	07/12/03
m-Xylene\p-Xylene	SW846-8260B	<5.4	ug/kg	07/12/03
o-Xylene	SW846-8260B	<5.4	ug/kg	07/12/03
Isopropylbenzene	SW846-8260B	<5.4	ug/kg	07/12/03
n-Propylbenzene	SW846-8260B	<5.4	ug/kg	07/12/03
1,3,5-Trimethylbenzene	SW846-8260B	<5.4	ug/kg	07/12/03
tert,Butylbenzene	SW846-8260B	<5.4	ug/kg	07/12/03
1,2,4-Trimethylbenzene	SW846-8260B	<5.4	ug/kg	07/12/03
sec-Butylbenzene	SW846-8260B	<5.4	ug/kg	07/12/03
p-Isopropyltoluene	SW846-8260B	<5.4	ug/kg	07/12/03
n-Butylbenzene	SW846-8260B	<5.4	ug/kg	07/12/03
Non-Target Peaks		Negative		
Total Solids	EPA 160.3	93	%	07/11/03

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Northeastern Environmental Technologies, Corp.
SAMPLE DESCRIPTION:UST 4/EPS-2/17'
MATRIX: Soil
LOCATION: Mohawk Honda
H.E.S.#: 030707F02

DATE SAMPLED: 07/02/03
TIME SAMPLED: 3:50 pm
DATE SAMPLE RECD: 07/07/03
TYPE SAMPLE: Grab
SAMPLER: W.Cook/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	SW846-8260B	<6.2	ug/kg	07/12/03
Benzene	SW846-8260B	172	ug/kg	07/12/03
Toluene	SW846-8260B	1,056	ug/kg	07/12/03
Ethylbenzene	SW846-8260B	295	ug/kg	07/12/03
m-Xylene\p-Xylene	SW846-8260B	1,364	ug/kg	07/12/03
o-Xylene	SW846-8260B	584	ug/kg	07/12/03
Isopropylbenzene	SW846-8260B	38	ug/kg	07/12/03
n-Propylbenzene	SW846-8260B	122	ug/kg	07/12/03
1,3,5-Trimethylbenzene	SW846-8260B	206	ug/kg	07/12/03
tert,Butylbenzene	SW846-8260B	70	ug/kg	07/12/03
1,2,4-Trimethylbenzene	SW846-8260B	850	ug/kg	07/12/03
sec-Butylbenzene	SW846-8260B	8.5	ug/kg	07/12/03
p-Isopropyltoluene	SW846-8260B	25	ug/kg	07/12/03
n-Butylbenzene	SW846-8260B	<6.2	ug/kg	07/12/03
Non-Target Peaks		Positive		
Total Solids	EPA 160.3	80	%	07/11/03

All results on a dry weight.
Approval By: M Lathrop
Date: 7/17/03

Hudson Environmental Services, Inc. certifies that the services provided were performed in accordance with the New York State Department of Health, Environmental Laboratory Approval Program certification manual. In the event of an error, HES's sole responsibility will be to perform reanalysis at its own expense. HES, Inc. assumes no other liability for damages incurred from the interpretation or use of the analysis provided.

SOIL REMOVAL AREA 5

END POINT SOIL QUALITY

NORTHEASTERN
ENVIRONMENTAL
TECHNOLOGIES CORP.

TABLE 5

SOIL ANALYTICAL DATA (STARS 8021 / 8270)

Mohawk Honda

728 - 756 State Street Schenectady, New York

Sampled on July 7, 2003

PARAMETER	SOIL SAMPLE DESCRIPTION Area 5 / S-1	DEC
MTBE	<5.5	1000
Benzene	<5.5	60
Toluene	<5.5	1500
Ethylbenzene	<5.5	5500
m-Xylene / p-Xylene	<5.5	1200
o-Xylene	<5.5	1200
Isopropylbenzene	<5.5	-----*
n-Propylbenzene	<5.5	-----*
1,3,5- Trimethylbenzene	<5.5	-----*
tert-Butylbenzene	<5.5	-----*
1,2,4- Trimethylbenzene	<5.5	-----*
sec-Butylbenzene	<5.5	-----*
p-Isopropyltoluene	<5.5	-----*
n-Butylbenzene	<5.5	-----*
Total VOC's	-----	10000*
Naphthalene	<363	13000
Acenaphthene	877.0	50,000*
Fluorene	904.0	50,000*
Phenanthrene	5,189.0	50,000*
Anthracene	1,299.0	50,000*
Fluoranthene	6,013.0	50,000*
Pyrene	4,132.0	50,000*
Benzo(a)anthracene	2,975.0	224 or MDL
Chrysene	1,724.0	400
Benzo(b)fluoranthene	3,592.0	1100
Benzo(k)fluoranthene	5,954.0	1100
Benzo(a)pyrene	1,921.0	61 or MDL
Indeno(1,2,3-cd)pyrene	835.0	3200
Dibenz(a,h)anthrancene	576.0	14 or MDL
Benzo(g,h,i)perylene	688.0	50,000*
Total SVOCs	36,679.0	500,000
Non-target peaks	Positive	-----
Total VOC & SVOC	36,679.0	-----

Notes: All concentrations are in ug/kg or ppb (parts per billion)
DEC = NYSDEC - TAGM - Determination of Soil Cleanup Objectives and Cleanup Levels, 1994.
*= as per TAGM #4046; Total VOC <= 10ppm; Total SVOC <= 500ppm; Individual SVOC <= 50ppm

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

ANALYTICAL TEST RESULTS
N.Y.S.D.O.H. Lab ID#11140

CLIENT: Northeastern Environmental Technologies, Corp.
SAMPLE DESCRIPTION: Area 5/S-1/6.5'
MATRIX: Soil
LOCATION: Mohawk Honda
H.E.S.#: 030709UU01

DATE SAMPLED: 07/07/03
TIME SAMPLED: 10:45 am
DATE SAMPLE RECD: 07/09/03
TYPE SAMPLE: Grab
SAMPLER: W.Cook/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	SW846-8260B	<5.5	ug/kg	07/12/03
Benzene	SW846-8260B	<5.5	ug/kg	07/12/03
Toluene	SW846-8260B	<5.5	ug/kg	07/12/03
Ethylbenzene	SW846-8260B	<5.5	ug/kg	07/12/03
m-Xylene\p-Xylene	SW846-8260B	<5.5	ug/kg	07/12/03
o-Xylene	SW846-8260B	<5.5	ug/kg	07/12/03
Isopropylbenzene	SW846-8260B	<5.5	ug/kg	07/12/03
n-Propylbenzene	SW846-8260B	<5.5	ug/kg	07/12/03
1,3,5-Trimethylbenzene	SW846-8260B	<5.5	ug/kg	07/12/03
tert,Butylbenzene	SW846-8260B	<5.5	ug/kg	07/12/03
1,2,4-Trimethylbenzene	SW846-8260B	<5.5	ug/kg	07/12/03
sec-Butylbenzene	SW846-8260B	<5.5	ug/kg	07/12/03
p-Isopropyltoluene	SW846-8260B	<5.5	ug/kg	07/12/03
n-Butylbenzene	SW846-8260B	<5.5	ug/kg	07/12/03
Naphthalene	SW846-8270C	<363	ug/kg	07/14/03
Acenaphthene	SW846-8270C	877	ug/kg	07/14/03
Fluorene	SW846-8270C	904	ug/kg	07/14/03
Phenanthrene	SW846-8270C	5,189	ug/kg	07/14/03
Anthracene	SW846-8270C	1,299	ug/kg	07/14/03
Fluoranthene	SW846-8270C	6,013	ug/kg	07/14/03
Pyrene	SW846-8270C	4,132	ug/kg	07/14/03
Benzo (a) anthracene	SW846-8270C	2,975	ug/kg	07/14/03
Chrysene	SW846-8270C	1,724	ug/kg	07/14/03
Benzo (b) fluoranthene	SW846-8270C	3,592	ug/kg	07/14/03
Benzo (k) fluoranthene	SW846-8270C	5,954	ug/kg	07/14/03
Benzo (a) pyrene	SW846-8270C	1,921	ug/kg	07/14/03
Indeno (1,2,3-CD) pyrene	SW846-8270C	835	ug/kg	07/14/03
Dibenz (a,h) anthracene	SW846-8270C	576	ug/kg	07/14/03
Benzo (g,h,i) perylene	SW846-8270C	688	ug/kg	07/14/03
Non-Target Peaks		Positive		
Total Solids	EPA 160.3	91	%	07/14/03

All results on a dry weight.
Approval By: MLH
Date: 7/23/03

Hudson Environmental Services, Inc. certifies that the services provided were performed in accordance with the New York State Department of Health, Environmental Laboratory Approval Program certification manual. In the event of an error, HES's sole responsibility will be to perform reanalysis at its own expense. HES, Inc. assumes no other liability for damages incurred from the interpretation or use of the analysis provided.

UPSTATE LABORATORIES INC.

SOIL QUALITY REPORT

NORTHEASTERN
ENVIRONMENTAL
TECHNOLOGIES CORP.

ALBANY COUNTY LANDFILL RESULTS

NORTHEASTERN
ENVIRONMENTAL
TECHNOLOGIES CORP.

Upstate Laboratories inc.

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Mailing: Box 289 • Syracuse, NY 13206
Albany (518) 459-3134
Binghamton (607) 724-0478
Buffalo (716) 649-2533
Rochester (585) 436-9070
New Jersey (201) 343-5353

July 7, 2003

Mr. Jeff Wink
NE Environmental Tech. Corp.
P.O. Box 2167
Ballston Spa, NY 12020

Re: Analysis Report #17403045 - Mohawk Honda

Dear Mr. Wink:

Please find enclosed the results for your samples which were received on June 20, 2003.

We have included the Chain of Custody Record as part of your report. You may need to reference this form for a more detailed explanation of your sample. Samples will be disposed of approximately one month from final report date.

Should you have any questions, please feel free to give us a call.

Thank you for your patronage.

Sincerely,

UPSTATE LABORATORIES, INC.

Anthony J. Scala
Director

AJS/ac

Enclosures: report, invoice

cc/encs: N. Scala, ULI
file

Note: Faxed results were given to your office on 6/26 and 7/3/03. AJS

Disclaimer: The test results and procedures utilized, and laboratory interpretations of data obtained by ULI as contained in this report are believed by ULI to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of ULI for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

DATE: 07/07/03

Upstate Laboratories, Inc.
Analysis Results
Report Number: 17403045
Client I.D.: NE ENVIRONMENTAL TECH., CORP.
Sampled by: Client

APPROVAL:
QC:
Lab I.D.: 10170
MOHAWK HONDA
UST-1/2 EXCAVATION SOIL 1100H 06/20/03 G

ULI I.D.: 17403046 Matrix: Soil

	PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
	Percent Solids	89%		06/24/03			WE4299
TCLP	Arsenic	<0.5mg/l		07/01/03			MB5596
TCLP	Barium	0.4mg/l		07/01/03			MB5596
TCLP	Cadmium	<0.005mg/l		07/01/03			MB5596
TCLP	Chromium	<0.05mg/l		07/01/03			MB5596
TCLP	Lead	0.3mg/l		07/01/03			MB5596
TCLP	Mercury	<0.0004mg/l		06/30/03			MB5595
TCLP	Selenium	<0.5mg/l		07/01/03			MB5596
TCLP	Silver	<0.05mg/l		07/01/03			MB5596
	TCLP Volatile Organic Compounds by 8260						
TCLP	Benzene	<0.03mg/l		07/02/03			VM4546
TCLP	Carbon Tetrachloride	<0.03mg/l		07/02/03			VM4546
TCLP	Chlorobenzene	<0.03mg/l		07/02/03			VM4546
TCLP	Chloroform	<0.03mg/l		07/02/03			VM4546
TCLP	1,4-Dichlorobenzene	<0.03mg/l		07/02/03			VM4546
TCLP	1,2-Dichloroethane	<0.03mg/l		07/02/03			VM4546
TCLP	1,1-Dichloroethene	<0.03mg/l		07/02/03			VM4546
TCLP	2-Butanone	<0.1mg/l		07/02/03			VM4546
TCLP	Tetrachloroethene	<0.03mg/l		07/02/03			VM4546
TCLP	Trichloroethene	<0.03mg/l		07/02/03			VM4546
TCLP	Vinyl Chloride	<0.02mg/l		07/02/03			VM4546
	TCLP Semivolatile Compounds by 8270						
TCLP	Cresols, Total	<0.10mg/l		06/26/03			SA3936
TCLP	2,4-Dinitrotoluene	<0.05mg/l		06/26/03			SA3936
TCLP	Hexachlorobenzene	<0.05mg/l		06/26/03			SA3936
TCLP	Hexachlorobutadiene	<0.05mg/l		06/26/03			SA3936
TCLP	Hexachloroethane	<0.05mg/l		06/26/03			SA3936
TCLP	Nitrobenzene	<0.05mg/l		06/26/03			SA3936
TCLP	Pentachlorophenol	<0.10mg/l		06/26/03			SA3936
TCLP	Pyridine	<0.05mg/l		06/26/03			SA3936
TCLP	2,4,5-Trichlorophenol	<0.05mg/l		06/26/03			SA3936
TCLP	2,4,6-Trichlorophenol	<0.05mg/l		06/26/03			SA3936
	PCB (Aroclors) by EPA Method 8082						
	Aroclor 1016	<0.09mg/kg dw		06/29/03			GA1977
	Aroclor 1221	<0.09mg/kg dw		06/29/03			GA1977
	Aroclor 1232	<0.09mg/kg dw		06/29/03			GA1977
	Aroclor 1242	<0.09mg/kg dw		06/29/03			GA1977

dw = Dry weight

DATE: 07/07/03

Upstate Laboratories, Inc. APPROVAL:
Analysis Results QC:
Report Number: 17403045 Lab I.D.: 10170
Client I.D.: NE ENVIRONMENTAL TECH., CORP. MOHAWK HONDA
Sampled by: Client UST-1/2 EXCAVATION SOIL 1100H 06/20/03 G

ULI I.D.: 17403046 Matrix: Soil

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Aroclor 1248	<0.09mg/kg dw		06/29/03			GA1977
Aroclor 1254	<0.09mg/kg dw		06/29/03			GA1977
Aroclor 1260	<0.09mg/kg dw		06/29/03			GA1977
Total PCB	<0.09mg/kg dw		06/29/03			GA1977
TCLP EPA 8081 Pesticides						
TCLP Chlordane	<0.01mg/l		07/01/03			GA1979
TCLP Endrin	<0.0005mg/l		07/01/03			GA1979
TCLP Heptachlor	<0.0005mg/l		07/01/03			GA1979
TCLP Lindane	<0.01mg/l		07/01/03			GA1979
TCLP Methoxychlor	<0.1mg/l		07/01/03			GA1979
TCLP Toxaphene	<0.01mg/l		07/01/03			GA1979
TCLP Heptachlor Epoxide	<0.0005mg/l		07/01/03			GA1979
TCLP Herbicides by EPA Method 8150						
TCLP 2,4-D	<0.1mg/l		07/01/03			GA1978
TCLP 2,4,5-TP	<0.01mg/l		07/01/03			GA1978

dw = Dry weight

KEY PAGE

1 MATRIX INTERFERENCE PRECLUDES LOWER DETECTION LIMITS
2 REFERENCE SAMPLE/CCV RECOVERY WAS OUTSIDE OF CONTROL LIMITS
3 METHOD BLANK RESULT WAS ABOVE THE CONTROL LIMITS
4 ANALYSIS NOT PERFORMED BECAUSE OF INSUFFICIENT SAMPLE
5 THE PRESENCE OF OTHER TARGET ANALYTE(S) PRECLUDES LOWER DETECTION LIMITS
6 BLANK CORRECTED
7 HEAD SPACE PRESENT IN SAMPLE
8 QUANTITATION LIMIT IS GREATER THAN THE CALCULATED REGULATORY LEVEL. THE QUANTITATION LIMIT THEREFORE BECOMES THE REGULATORY LEVEL.
9 THE OIL WAS TREATED AS A SOLID AND LEACHED WITH EXTRACTION FLUID
10 RESULTS ARE REPORTED ON AN AS REC.D BASIS
11 POSSIBLE CONTAMINATION FROM FIELD/LABORATORY
12 SAMPLE ANALYZED OVER HOLDING TIME
13 DISSOLVED VALUE MAY BE HIGHER THAN TOTAL DUE TO CONTAMINATION FROM THE FILTERING PROCEDURE
14 SAMPLED BY ULI
15 DISSOLVED VALUE MAY BE HIGHER THAN TOTAL; HOWEVER, THE VALUES ARE WITHIN EXPERIMENTAL ERROR
16 AN INHIBITORY FACTOR WAS OBSERVED IN THIS ANALYSIS
17 PARAMETER NOT ANALYZED WITHIN 15 MINUTES OF SAMPLING
18 THE SERIAL DILUTION OF THIS SAMPLE SUGGESTS A POSSIBLE PHYSICAL AND/OR CHEMICAL INTERFERENT IN THIS DETERMINATION. THE DATA MAY BE BIASED EITHER HIGH OR LOW.
19 CALCULATION BASED ON DRY WEIGHT
20 INDICATES AN ESTIMATED VALUE, DETECTED BUT BELOW THE PRACTICAL QUANTITATION LIMITS
21 UG/KG AS REC.D / UG/KG DRY WT
22 MG/KG AS REC.D / MG/KG DRY WT
23 INSUFFICIENT SAMPLE PRECLUDES LOWER DETECTION LIMITS
24 SAMPLE DILUTED/BLANK CORRECTED
25 ND(NON-DETECTED)
26 DUPLICATE SAMPLE OUTSIDE QC CRITERIA
27 SPIKE RECOVERY ABNORMALLY HIGH/LOW DUE TO MATRIX INTERFERENCE
28 POST-DIGESTION SPIKE FOR FURNACE AA ANALYSIS IS OUTSIDE OF THE CONTROL LIMITS (85-115%); HOWEVER, THE SAMPLE CONCENTRATION IS BELOW THE PQL
29 ANALYZED BY METHOD OF STANDARD ADDITIONS
30
31 FIELD MEASURED PARAMETER TAKEN BY CLIENT
32 TARGET ANALYTE IS BIODEGRADED AND/OR ENVIRONMENTALLY WEATHERED
33 MILLIGRAMS PER LITER (MG/L) LINEAR ALKYL SULFONATE (LAS) / POUNDS (LBS) PER DAY LAS
34 THE SAMPLE WAS ANALYZED ON A TOTAL BASIS; THE TEST RESULT CAN BE COMPARED TO THE TCLP REGULATORY CRITERIA BY DIVIDING THE TEST RESULT BY 20, CREATING A THEORETICAL TCLP VALUE
35 THE HYDROCARBONS DETECTED IN THE SAMPLE DID NOT CROSS-MATCH WITH COMMON PETROLEUM DISTILLATES
36 MATRIX INTERFERENCE CAUSING SPIKES TO RESULT IN LESS THAN 50.0% RECOVERY
37 MILLIGRAMS PER LITER (MG/L) / POUNDS (LBS) PER DAY
38 MILLIGRAMS PER LITER (MG/L) OF RESIDUAL CHLORINE (CL2) / POUNDS (LBS) PER DAY OF CL2
39 MICROGRAMS PER LITER (UG/L) / POUNDS (LBS) PER DAY
(B) DETECTED IN BLANK
(D) ALL COMPOUNDS IDENTIFIED IN AN ANALYSIS AT A SECONDARY DILUTION FACTOR
(E) COMPOUNDS WHOSE CONCENTRATIONS EXCEED THE CALIBRATION RANGE OF THE GC/MS INSTRUMENT FOR THAT SPECIFIC ANALYSIS
(J) DETECTED BELOW THE CRQL
(a) SAMPLE(S) RECEIVED AT THE IMPROPER TEMPERATURE
(b) HEADSPACE IN VOA VIAL(S)
(c) HEADSPACE IN ALKALINITY BOTTLE(S)
(d) SAMPLE CONTAINER(S) RECEIVED BROKEN

REPORT 1

Upstate Laboratories, Inc.
6034 Corporate Drive • E. Syracuse, NY 13057-1017
(315) 437 0255 Fax 437 1209

Chain Of Custody Record

6/27 HTB

Client: Northeastern Env. Technologies Corp.
Client Project # / Project Name: Mohawk Honda
Client Contact: Jeff Wink
Phone #: 884-8545
Site Location (city/state): Schenectady

Special Turnaround Time 24 HRS (Lab Notification required)

Sample Location:	Date	Time	Matrix	Grab or Comp.	ULI Internal Use Only	No. of Containers	1)	2)	3)	4)	5)	6)	7)	8)	9)	10)	Remarks
UST-1/2 Excavation Water	6/20/03	11:15	Water	G	17403045	2	X										

parameter and method	sample bottle: type	size	pres.
1) EPA 502.2 + MTBE	G	40ml	NONE
2)			
3)			
4)			
5)			
6)			
7)			
8)			
9)			
10)			

Note: The numbered columns above cross-reference with the numbered columns in the upper right-hand corner.

Sampled by: (Please Print) William J. Cook
Company:

ULI Internal Use Only
Delivery (check one):
☐ ULI Sampled
☐ Pickup ☒ Dropoff
☒ CC Eastern Conn-

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
William J Cook	6/20/03	12:30	[signature]
[signature]	6/20/03	5:00 pm	

Relinquished by: (Signature)	Date	Time	Rec'd for Lab by: (Signature)
	6-23-03	0930	[signature]

Syracuse Rochester Buffalo (Albany) Binghamton Fair Lawn (NJ)

REPORT 1

Upstate Laboratories, Inc.
6034 Corporate Drive • E. Syracuse, NY 13057-1017
(315) 437 0255 Fax 437 1209

Chain Of Custody Record

7/3

Client: Northeastern Env. Technologies Corp.		Client Project # / Project Name: Mohawk Honda
Client Contact: Jeff Wink	Phone #	Site Location (city/state): Schenectady, NY

Special Turnaround Time STD. (Lab Notification required)

Sample Location:	Date	Time	Matrix	Grab or Comp.	ULI Internal Use Only	No. of Containers	1)	2)	3)	4)	5)	6)	7)	8)	9)	10)	Remarks
UST-1/2 EXCAVATED SOIL	6/20	11:00	SOIL	G	17403046	2	X	X	X	X	X	(X)					

parameter and method	sample bottle: type	size	pres.
1) Full TCLP (Volatiles 8260)	G	6oz	NONE
2) (Semivolatiles 8270, Pests 8081	G	16oz	NONE
3) Herbicides 8150, Metals - As, Ba,			
4) Co, Cr, Pb, Hg, Se, Ag)			
5) Total PCBs - 8082			
6) (% Solids) [initials] 6-23-03			
7)			
8)			
9)			
10)			

Note: The numbered columns above cross-reference with the numbered columns in the upper right-hand corner.

Sampled by: (Please Print) William J. Cook
Company:

ULI Internal Use Only
Delivery (check one):
☐ ULI Sampled
☐ Pickup ☒ Dropoff
☐ CC Eastern Conn.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
[signature]	6/20/03	12:25	[signature]
[signature]	6/20/03	5:00 pm	
	6-23-03	0930	Rec'd for Lab by: (Signature) [signature]

Syracuse Rochester Buffalo (Albany) Binghamton Fair Lawn (NJ)

TRIMETHYL LEAD RESULTS

NORTHEASTERN
ENVIRONMENTAL
TECHNOLOGIES CORP.

Upstate Laboratories inc.

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Buffalo (716) 649-2533
Rochester (585) 436-9070
New Jersey (201) 343-5353

July 30, 2003

Mr. Jeff Wink
Northeastern Env. Tech. Corp.
P.O. Box 2167
Ballston Spa, NY 12020

Re: Analysis Report #18803028 - Mohawk Honda

Dear Mr. Wink:

Please find enclosed the results for your samples which were received on July 3, 2003.

We have included the Chain of Custody Record as part of your report. You may need to reference this form for a more detailed explanation of your sample. Samples will be disposed of approximately one month from final report date.

Should you have any questions, please feel free to give us a call.

Thank you for your patronage.

Sincerely,

UPSTATE LABORATORIES, INC.

Anthony J. Scala

Anthony J. Scala
Director

AJS/ac

Enclosures: report, invoice

cc/encs: N. Scala, ULI
file

Note: Faxed results were given to your office on 7/30/03. AJS

Disclaimer: The test results and procedures utilized, and laboratory interpretations of data obtained by ULI as contained in this report are believed by ULI to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of ULI for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

DATE: 07/30/03

Upstate Laboratories, Inc.
Analysis Results
Report Number: 18803028
Client I.D.: NORTHEASTERN ENV. TECH. CORP.
Sampled by: Client

APPROVAL: GS
QC: TS
Lab I.D.: 10170

MOHAWK HONDA
UST 1/HS/9.0' 0900H 07/01/03 G

ULI I.D.: 18803028 Matrix: Soil

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	86%		07/08/03			WE4462
Other Compounds by EPA Method 8270						
Tetraethyl Pb	1300ug/kg dw		07/29/03			SA3952

dw = Dry weight

DATE: 07/30/03

Upstate Laboratories, Inc.
Analysis Results
Report Number: 18803028
Client I.D.: NORTHEASTERN ENV. TECH. CORP.
Sampled by: Client

APPROVAL: CJS
QC: JS
Lab I.D.: 10170

MOHAWK HONDA
UST 4/EPS-2/17' 1550H 07/02/03 G

ULI I.D.: 18803029 Matrix: Soil

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	77%		07/08/03			WE4462
Other Compounds by EPA Method 8270						
Tetraethyl Pb	<430ug/kg dw		07/29/03			SA3952

dw = Dry weight

Upstate Laboratories, Inc.

034 Corporate Drive • E. Syracuse, NY 13057-1017
315) 437 0255 Fax 437 1209

Chain Of Custody Record

7/17

REPORT 1

Client:	Client Project # / Project Name
NETC	MOHAWK HONDA
Client Contact:	**Phone #** / **Site Location (city/state)**
BILL COOK/JEFF WINK	518 884-8545 / SCHENECTADY

Sample Location:	Date	Time	Matrix	Grab or Comp.	ULI Internal Use Only	No. of Containers	1)	2)	3)	4)	5)	6)	7)	8)	9)	10)	Remarks
UST 1/HS/9.0'	7/1/03	~~9:00~~ 10:10 AM	SOIL	G	18803028	(2)	X	(X)									

parameter and method	sample bottle: type	size	pres.
1) ~~Tetraethyl~~ TETRAETHYL Pb	G	40ml	ICE
2) (% Solids)			
3)			
4)			
5)			
6)			
7)			
8)			
9)			
10)			

Note: The numbered columns above cross-reference with the numbered columns in the upper right-hand corner.

Sampled by: (Please Print) ~~MATT~~ WILLIAM J. COOK

Company: NETC

ULI Internal Use Only
Delivery (check one):
☐ ULI Sampled
☐ Pickup ☑ Dropoff
☐ CC EASTON

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
William J. Cook	7/3/03	3:30 P	
	7/6/03	5	
	7.7.03	0900	K Crump

Special Turnaround Time_____ (Lab Notification required)

Syracuse Rochester Buffalo (Albany) Binghamton Fair Lawn (NJ)

Upstate Laboratories, Inc.

4 Corporate Drive • E. Syracuse, NY 13057-1017
i) 437 0255 Fax 437 1209

Chain Of Custody Record

7/17

REPORT 1

nt: NETC

Client Project # / Project Name: MOHAWK HONDA

nt Contact: BILL COOK / JEFF WINK

Phone #:

Site Location (city/state): SCHENECTADY, NY

Sample Location:	Date	Time	Matrix	Grab or Comp.	ULI Internal Use Only	No. of Con-tainers	1)	2)	3)	4)	5)	6)	7)	8)	9)	10)	Special Turnaround Time_____ (Lab Notification required) Remarks
UST 4/EPS-2/17'	7/2/03	3:50 PM	SOIL	G	18803029	(2)	X	(X)									

parameter and method	sample bottle: type	size	pres.
1) Tetraethyl Lead 7199 ~~TETRAETHYL~~ Pb	G	40 ml	ICE
2) (% SOLIDS) 7/7/03			
3)			
4)			
5)			
6)			
7)			
8)			
9)			
10)			

Note: The numbered columns above cross-reference with the numbered columns in the upper right-hand corner.

Sampled by: (Please Print) WILLIAM J. COOK

Company: NETC

ULI Internal Use Only

Delivery (check one):
- ☐ ULI Sampled
- ☐ Pickup ☒ Dropoff
- ☐ CC EASTERN

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
William J. Cook	7/3/03	3:30 PM	
	7/3/03	5:00	Received by: (Signature)
Relinquished by: (Signature)	Date	Time	Received by: (Signature)
Relinquished by: (Signature)	Date 7.7.03	Time 0900	Rec'd for Lab by: (Signature) K Crump

Syracuse Rochester Buffalo (Albany) Binghamton Fair Lawn (NJ)

Upstate Laboratories inc.

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Binghamton (607) 724-0478
Buffalo (716) 649-2533
Rochester (585) 436-9070
New Jersey (201) 343-5353

July 30, 2003

Mr. Jeff Wink
Northeastern Env. Tech. Corp.
P.O. Box 2167
Ballston Spa, NY 12020

Re: Analysis Report #17803030 - Mohawk Honda

Dear Mr. Wink:

Please find enclosed the results for your samples which were received on June 25, 2003.

We have included the Chain of Custody Record as part of your report. You may need to reference this form for a more detailed explanation of your sample. Samples will be disposed of approximately one month from final report date.

Should you have any questions, please feel free to give us a call.

Thank you for your patronage.

Sincerely,

UPSTATE LABORATORIES, INC.

Anthony J. Scala

Anthony J. Scala
Director

AJS/ac

Enclosures: report, invoice

cc/encs: N. Scala, ULI
file

Note: Faxed results were given to your office on 7/30/03. AJS

Disclaimer: The test results and procedures utilized, and laboratory interpretations of data obtained by ULI as contained in this report are believed by ULI to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of ULI for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

DATE: 07/30/03

Upstate Laboratories, Inc.
Analysis Results
Report Number: 17803030
Client I.D.: NORTHEASTERN ENV. TECH. CORP. MOHAWK HONDA
Sampled by: Client

APPROVAL: CJS
QC: TS
Lab I.D.: 10170
S-1/AREA 3-STATE ST/14' 1315H 06/25/03 G

ULI I.D.: 17803030 Matrix: Soil

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	80%		07/01/03			WE4394
Other Compounds by EPA Method 8270						
Tetraethyl Pb	<420ug/kg dw		07/29/03			SA3941

dw = Dry weight

DATE: 07/30/03

Upstate Laboratories, Inc.
Analysis Results
Report Number: 17803030
Client I.D.: NORTHEASTERN ENV. TECH. CORP. MOHAWK HONDA
Sampled by: Client

APPROVAL: CJS
QC: TS
Lab I.D.: 10170
UST 3/5-1/7.0' 1600H 06/19/03 G

ULI I.D.: 17803031 Matrix: Soil

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
Percent Solids	89%		07/01/03			WE4394
Other Compounds by EPA Method 8270						
Tetraethyl Pb	<370ug/kg dw		07/29/03			SA3941

dw = Dry weight

REPORT 1

Upstate Laboratories, Inc.

Corporate Drive • E. Syracuse, NY 13057-1017
) 437 0255 Fax 437 1209

Chain Of Custody Record

7/10

Client:		Client Project # / Project Name					No. of Containers	1)	2)	3)	4)	5)	6)	7)	8)	9)	10)	Special Turnaround Time ______ (Lab Notification required) Remarks
NETC		MOHAWK HONDA																
Contact: BILL COOK / JEFF WINK	Phone #	Site Location (city/state): SCHENECTADY, NY																
Sample Location:	Date	Time	Matrix	Grab or Comp.	ULI Internal Use Only													
S-1/AREA 3-STATE ST/14'	6/25/03	1:15 PM	Soil	G	17803030		2	X	X									

parameter and method	sample bottle: type	size	pres.
1) Tetraethyl ~~TRIMETHYL~~ Pb (8270)	G	40 ml	ICE
2) (% Solids)			
3)			
4)			
5)			
6)			
7)			
8)			
9)			
10)			

Note: The numbered columns above cross-reference with the numbered columns in the upper right-hand corner.

Sampled by: (Please Print) WILLIAM J. COOK
Company: NETC

ULI Internal Use Only
Delivery (check one):
☐ ULI Sampled
☐ Pickup ☒ Dropoff
☒ CC Eastern Connec.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
William J Cook	6/25/03	3:40 PM	[signature]
[signature]	6/25/03	5:00 pm	
	6-26-03	0900	Rec'd for Lab by: [signature]

Syracuse Rochester Buffalo Albany Binghamton Fair Lawn (NJ)

REPORT 1

Upstate Laboratories, Inc.
34 Corporate Drive • E. Syracuse, NY 13057-1017
(315) 437 0255 Fax 437 1209

Chain Of Custody Record

7/10

Client: NETC		Client Project # / Project Name: MOHAWK HONDA				No. of Containers											Special Turnaround Time ____ (Lab Notification required)
Client Contact: BILL COOK / JEFF WINK	Phone #	Site Location (city/state): SCHENECTADY															
Sample Location:	Date	Time	Matrix	Grab or Comp.	ULI Internal Use Only		1)	2)	3)	4)	5)	6)	7)	8)	9)	10)	Remarks
UST 3/S-1/9.0'	6/19/03	4:00	SOIL	G	17803031	(2)	X	X									

parameter and method	sample bottle: type	size	pres.
1) Tetraethyl ~~TRIMETHYL~~ Pb (8270)	G	40ml	NO
2) (% Solids) 6000			
3)			
4)			
5)			
6)			
7)			
8)			
9)			
10)			

Note: The numbered columns above cross-reference with the numbered columns in the upper right-hand corner.

Sampled by: (Please Print) William J Cook
Company: NETC

ULI Internal Use Only
Delivery (check one):
☐ ULI Sampled
☐ Pickup ☒ Dropoff
☒ CC Eastern Conn.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)
William J Cook	6/25/03	Noon	[signature]
[signature]	6/25/03	5:00 pm	
	6-26-03	0900	Rec'd for Lab by: (Signature) K Chung

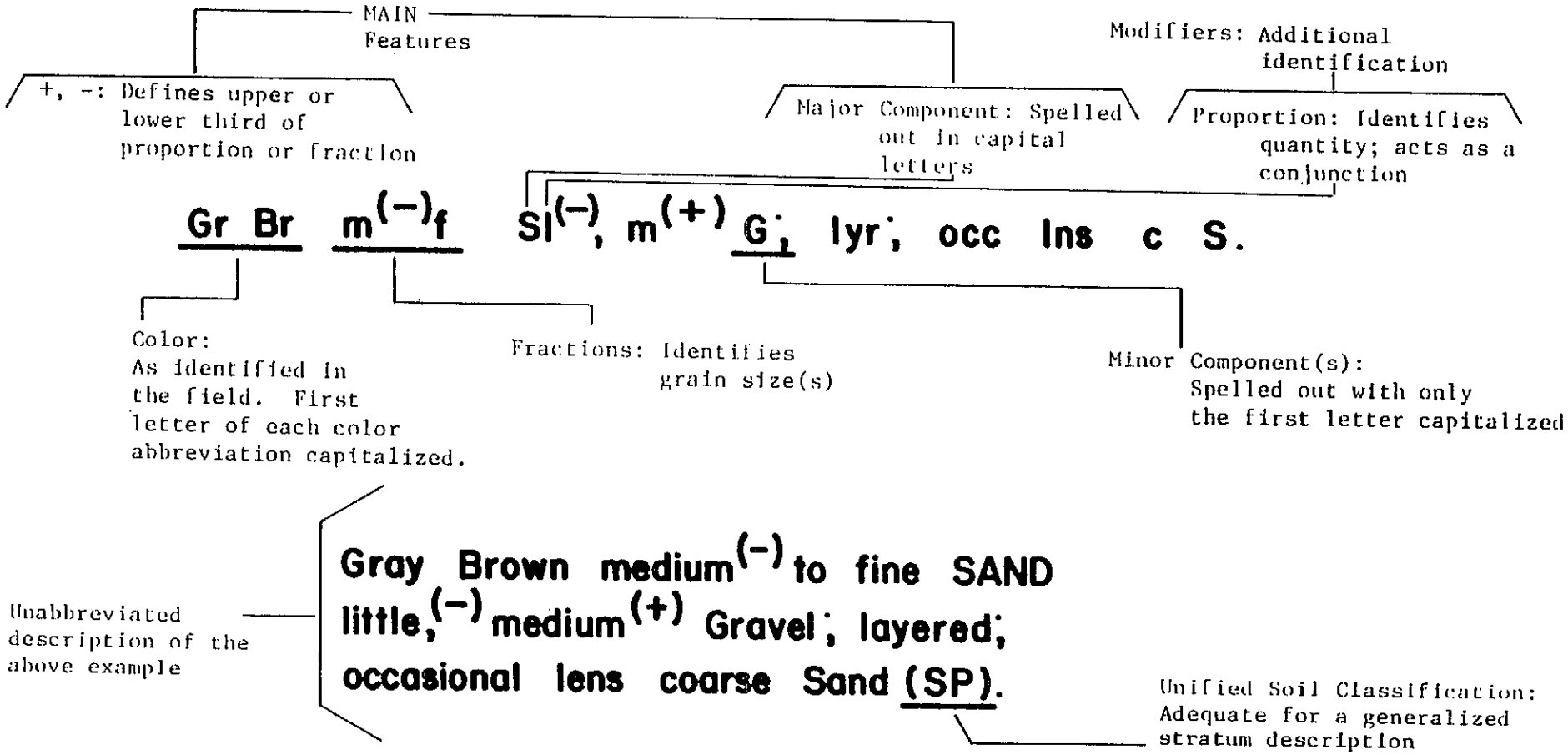
Syracuse Rochester Buffalo Albany Binghamton Fair Lawn (NJ)

APPENDIX D

SOIL BORING LOGS

NORTHEASTERN
ENVIRONMENTAL
TECHNOLOGIES CORP.
1476 Route 50, P.O. Box 2167, Ballston Spa, NY 12020
Phone: (518) 884-8545 Fax: (518) 884-9710 e-mail: jwink@attglobal.net

MODIFIED BURMISTER SYSTEM



REPORT 1

III. Glossary of Modifying Abbreviations

Category	Symbol	Term	Symbol	Term	Symbol	Term
A. Borings	U/D	Undisturbed	B	Exploratory	A	Auger
B. Samples	C	Casing	L	Lost	U	Undisturbed
	D	Denison	S	Spoon	W	Wash
	O.E.	Open End				
C. Colors	bk	black	gn	green	wh	white
	bl	blue	or	orange	yw	yellow
	br	brown	rd	red	dk	dark
	gr	gray	tn	tan	lt	light
D. Organic Soils	dec	decayed	o	organic	veg	vegetation
	dec'g	decaying	rts	roots	pt	peat
	lig	lignite	ts	topsoil		
E. Rocks	LS	Limestone	rk	rock	Shst	Schist
	Gns	Gneiss	SS	Sandstone	Sh	Shale
F. Fill and Miscellaneous Materials	bldr (s)	boulder (s)	cbl (s)	cobble(s)	gls	glass
	brk (s)	brick (s)	wd	wood	misc	miscellaneous
	cndr (s)	cinder (s)	dbr	debris	rbl	rubble
G. Miscellaneous Terms	do	ditto	pp	pocket penetrometer	ref	refusal
	el, El	elevation			sm	small
	fgmt (s)	fragment(s)	P. I.	Plasticity Index	W. L.	water level
	frqt	frequent			W. H.	weight of hammer
	lrg	large	P	pushed pressed	W. R.	weight of rods
	mtld	mottled				
	no rec	no recovery	pc (s)	piece (s)		
	pen	penetration	rec or R	recovered		
H. Stratified Soils	alt	alternating				
	thk	thick				
	thn	thin				
	w	with				
	prt	parting	— 0 to 1/16" thickness			
	seam	seam	— 1/16 to ½" thickness			
	lyr	layer	— ½ to 12" thickness			
	stra	stratum	— greater than 12" thickness			
	vvd c	varved Clay	— alternating seams or layers of sand, silt and clay			
	pkt	pocket	— small, erratic deposit, usually less than 1 foot			
	lns	lens	— lenticular deposit			
	occ	occasional	— one or less per foot of thickness			
	freq	frequent	— more than one per foot of thickness			

VISUAL IDENTIFICATION OF SAMPLES

The samples were identified in accordance with the American Society for Engineering Education System of Definition.

I. Definition of Soil Components and Fractions

Material	Symbol	Fraction	Sieve Size	Definition
Boulders	Bldr	—	9" +	Material retained on 9" sieve.
Cobbles	Cbl	—	3" to 9"	Material passing the 9" sieve and retained on the 3" sieve.
Gravel	G	coarse (c) medium (m) fine (f)	1" to 3" ⅜" to 1" No. 10 to ⅜"	Material passing the 3" sieve and retained on the No. 10 sieve.
Sand	S	coarse (c) medium (m) fine (f)	No. 30 to No. 10 No. 60 to No. 30 No. 200 to No. 60	Material passing the No. 10 sieve and retained on the No. 200 sieve.
Silt	$	—	Passing No. 200 (0.074 mm)	Material passing the No. 200 sieve that is non-plastic in character and exhibits little or no strength when air dried.

Organic Silt (O$)
Material passing the No. 200 sieve which exhibits plastic properties within a certain range of moisture content, and exhibits fine granular and organic characteristics.

		Plasticity	Plasticity Index
Clayey SILT	Cy$	Slight (Sl)	1 to 5
SILT & CLAY	$&C	Low (L)	5 to 10
CLAY & SILT	C&$	Medium (M)	10 to 20
Silty CLAY	$yC	High (H)	20 to 40
CLAY	C	Very High (VH)	40 plus

Clay-Soil
Material passing the No. 200 sieve which can be made to exhibit plasticity and clay qualities within a certain range of moisture content, and which exhibits considerable strength when air-dried.

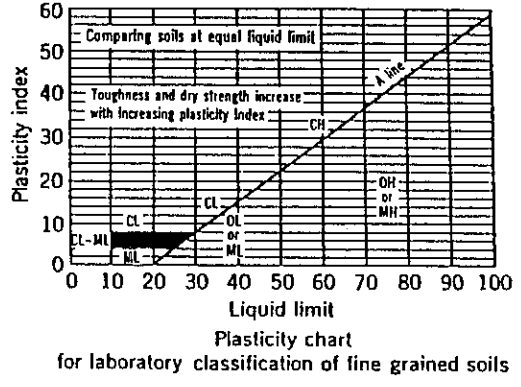
II. Definition of Component Proportions

Component	Written	Proportions	Symbol	Percentage Range by Weight *
Principal	CAPITALS	—		50 or more
Minor	Lower Case	and	a.	35 to 50
		some	s.	20 to 35
		little	l.	10 to 20
		trace	t.	1 to 10

* Minus sign (—) lower limit, plus sign (+) upper limit, no sign middle range.

Table 3.5 Unified Soil Classification

Field Identification Procedures (Excluding particles larger than 3 in. and basing fractions on estimated weights)						Group Symbols [a]	Typical Names	Information Required for Describing Soils	Laboratory Classification Criteria
Coarse-grained soils: More than half of material is *larger* than No. 200 sieve size[b] (The No. 200 sieve size is about the smallest particle visible to naked eye)	Gravels: More than half of coarse fraction is larger than No. 4 sieve size (For visual classification, the ¼ in. size may be used as equivalent to the No. 4 sieve size)	Clean gravels (little or no fines)	Wide range in grain size and substantial amounts of all intermediate particle sizes			*GW*	Well graded gravels, gravel-sand mixtures, little or no fines	Give typical name; indicate approximate percentages of sand and gravel; maximum size; angularity, surface condition, and hardness of the coarse grains; local or geologic name and other pertinent descriptive information; and symbols in parentheses For undisturbed soils add information on stratification, degree of compactness, cementation, moisture conditions and drainage characteristics Example: *Silty sand*, gravelly; about 20% hard, angular gravel particles ½-in. maximum size; rounded and subangular sand grains coarse to fine, about 15% nonplastic fines with low dry strength; well compacted and moist in place; alluvial sand; (*SM*)	Determine percentages of gravel and sand from grain size curve Depending on percentage of fines (fraction smaller than No. 200 sieve size) coarse grained soils are classified as follows: Less than 5% *GW, GP, SW, SP* More than 12% *GM, GC, SM, SC* 5% to 12% *Borderline* cases requiring use of dual symbols Use grain size curve in identifying the fractions as given under field identification	$C_U = \frac{D_{60}}{D_{10}}$ Greater than 4 $C_C = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ Between 1 and 3 Not meeting all gradation requirements for *GW* Atterberg limits below "A" line, or *PI* less than 4 — Above "A" line with *PI* between 4 and 7 are *borderline* cases requiring use of dual symbols Atterberg limits above "A" line, with *PI* greater than 7
		Clean gravels (little or no fines)	Predominantly one size or a range of sizes with some intermediate sizes missing			*GP*	Poorly graded gravels, gravel-sand mixtures, little or no fines		
		Gravels with fines (appreciable amount of fines)	Nonplastic fines (for identification procedures see *ML* below)			*GM*	Silty gravels, poorly graded gravel-sand-silt mixtures		
			Plastic fines (for identification procedures, see *CL* below)			*GC*	Clayey gravels, poorly graded gravel-sand-clay mixtures		
	Sands: More than half of coarse fraction is smaller than No. 4 sieve size (For visual classification, the ¼ in. size may be used as equivalent to the No. 4 sieve size)	Clean sands (little or no fines)	Wide range in grain sizes and substantial amounts of all intermediate particle sizes			*SW*	Well graded sands, gravelly sands, little or no fines		$C_U = \frac{D_{60}}{D_{10}}$ Greater than 6 $C_C = \frac{(D_{30})^2}{D_{10} \times D_{60}}$ Between 1 and 3 Not meeting all gradation requirements for *SW* Atterberg limits below "A" line or *PI* less than 5 — Above "A" line with *PI* between 4 and 7 are *borderline* cases requiring use of dual symbols Atterberg limits below "A" line with *PI* greater than 7
			Predominantly one size or a range of sizes with some intermediate sizes missing			*SP*	Poorly graded sands, gravelly sands, little or no fines		
		Sands with fines (appreciable amount of fines)	Nonplastic fines (for identification procedures, see *ML* below)			*SM*	Silty sands, poorly graded sand-silt mixtures		
			Plastic fines (for identification procedures, see *CL* below)			*SC*	Clayey sands, poorly graded sand-clay mixtures		
Fine-grained soils: More than half of material is *smaller* than No. 200 sieve size (The No. 200 sieve size is about the smallest particle visible to naked eye)	Identification Procedures on Fraction Smaller than No. 40 Sieve Size		Dry Strength (crushing characteristics)	Dilatancy (reaction to shaking)	Toughness (consistency near plastic limit)				
	Silts and clays: liquid limit less than 50		None to slight	Quick to slow	None	*ML*	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands with slight plasticity	Give typical name; indicate degree and character of plasticity, amount and maximum size of coarse grains; colour in wet condition, odour if any, local or geologic name, and other pertinent descriptive information, and symbol in parentheses For undisturbed soils add information on structure, stratification, consistency in undisturbed and remoulded states, moisture and drainage conditions Example: *Clayey silt*, brown; slightly plastic; small percentage of fine sand; numerous vertical root holes; firm and dry in place; loess; (*ML*)	
			Medium to high	None to very slow	Medium	*CL*	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays		
			Slight to medium	Slow	Slight	*OL*	Organic silts and organic silt-clays of low plasticity		
	Silts and clays: liquid limit greater than 50		Slight to medium	Slow to none	Slight to medium	*MH*	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts		
			High to very high	None	High	*CH*	Inorganic clays of high plasticity, fat clays		
			Medium to high	None to very slow	Slight to medium	*OH*	Organic clays of medium to high plasticity		
Highly Organic Soils			Readily identified by colour, odour, spongy feel and frequently by fibrous texture			*Pt*	Peat and other highly organic soils		



Plasticity chart
for laboratory classification of fine grained soils

From Wagner, 1957.

[a] *Boundary classifications.* Soils possessing characteristics of two groups are designated by combinations of group symbols. For example *GW–GC*, well graded gravel-sand mixture with clay binder.

[b] All sieve sizes on this chart are U.S. standard.

Field Identification Procedure for Fine Grained Soils or Fractions

These procedures are to be performed on the minus No. 40 sieve size particles, approximately ¼ in. For field classification purposes, screening is not intended, simply remove by hand the coarse particles that interfere with the tests.

Dilatancy (Reaction to shaking):

After removing particles larger than No. 40 sieve size, prepare a pat of moist soil with a volume of about one-half cubic inch. Add enough water if necessary to make the soil soft but not sticky.

Place the pat in the open palm of one hand and shake horizontally, striking vigorously against the other hand several times. A positive reaction consists of the appearance of water on the surface of the pat which changes to a livery consistency and becomes glossy. When the sample is squeezed between the fingers, the water and gloss disappear from the surface, the pat stiffens and finally it cracks or crumbles. The rapidity of appearance of water during shaking and of its disappearance during squeezing assist in identifying the character of the fines in a soil.

Very fine clean sands give the quickest and most distinct reaction whereas a plastic clay has no reaction. Inorganic silts, such as a typical rock flour, show a moderately quick reaction.

Dry Strength (Crushing characteristics):

After removing particles larger than No. 40 sieve size, mould a pat of soil to the consistency of putty, adding water if necessary. Allow the pat to dry completely by oven, sun or air drying, and then test its strength by breaking and crumbling between the fingers. This strength is a measure of the character and quantity of the colloidal fraction contained in the soil. The dry strength increases with increasing plasticity.

High dry strength is characteristic for clays of the CH group. A typical inorganic silt possesses only very slight dry strength. Silty fine sands and silts have about the same slight dry strength, but can be distinguished by the feel when powdering the dried specimen. Fine sand feels gritty whereas a typical silt has the smooth feel of flour.

Toughness (Consistency near plastic limit):

After removing particles larger than the No. 40 sieve size, a specimen of soil about one-half inch cube in size, is moulded to the consistency of putty. If too dry, water must be added and if sticky, the specimen should be spread out in a thin layer and allowed to lose some moisture by evaporation. Then the specimen is rolled out by hand on a smooth surface or between the palms into a thread about one-eight inch in diameter. The thread is then folded and re-rolled repeatedly. During this manipulation the moisture content is gradually reduced and the specimen stiffens, finally loses its plasticity, and crumbles when the plastic limit is reached.

After the thread crumbles, the pieces should be lumped together and a slight kneading action continued until the lump crumbles.

The tougher the thread near the plastic limit and the stiffer the lump when it finally crumbles, the more potent is the colloidal clay fraction in the soil. Weakness of the thread at the plastic limit and quick loss of coherence of the lump below the plastic limit indicate either inorganic clay of low plasticity, or materials such as kaolin-type clays and organic clays which occur below the A-line.

REPORT 1

Soil Characteristics Pertinent to Roads and Airfields

Major Divisions		Letter (1)	Name	Value as Subgrade When Not Subject to Frost Action	Value as Subbase When Not Subject to Frost Action	Value as Base When Not Subject to Frost Action	Potential Frost Action	Compressibility and Expansion	Drainage Characteristics	Compaction Equipment	Unit Dry Weight lb. per cu. ft.	Typical Design Values	
												CBR (2)	Subgrade Modulus k lb. per cu. in.
Coarse-Grained Soils	Gravel and Gravelly Soils	GW	Well-graded gravels or gravel-sand mixtures, little or no fines	Excellent	Excellent	Good	None to very slight	Almost none	Excellent	Crawler-type tractor, rubber-tired roller, steel-wheeled roller	125-140	40-80	300-500
		GP	Poorly graded gravels or gravel-sand mixtures, little or no fines	Good to excellent	Good	Fair to good	None to very slight	Almost none	Excellent	Crawler type tractor, rubber-tired roller, steel-wheeled roller	110-140	30-60	300-500
		GM d	Silty gravels, gravel-sand-silt mixtures	Good to excellent	Good	Fair to good	Slight to medium	Very slight	Fair to poor	Rubber-tired roller, sheepsfoot roller; close control of moisture	125-145	40-60	300-500
		GM u		Good	Fair	Poor to not suitable	Slight to medium	Slight	Poor to practically impervious	Rubber-tired roller, sheepsfoot roller	115-135	20-30	200-500
		GC	Clayey gravels, gravel-sand-clay mixtures	Good	Fair	Poor to not suitable	Slight to medium	Slight	Poor to practically impervious	Rubber-tired roller, sheepsfoot roller	130-145	20-40	200-500
	Sand and Sandy Soils	SW	Well-graded sands or gravelly sands, little or no fines	Good	Fair to good	Poor	None to very slight	Almost none	Excellent	Crawler-type tractor, rubber-tired roller	110-130	20-40	200-400
		SP	Poorly graded sands or gravelly sands, little or no fines	Fair to good	Fair	Poor to not suitable	None to very slight	Almost none	Excellent	Crawler-type tractor, rubber-tired roller	105-135	10-40	150-400
		SM d	Silty sands, sand-silt mixtures	Fair to good	Fair to good	Poor	Slight to high	Very slight	Fair to poor	Rubber-tired roller, sheepsfoot roller; close control of moisture	120-135	15-40	150-400
		SM u		Fair	Poor to fair	Not suitable	Slight to high	Slight to medium	Poor to practically impervious	Rubber-tired roller, sheepsfoot roller	100-130	10-20	100-300
		SC	Clayey sands, sand-clay mixtures	Poor to fair	Poor	Not suitable	Slight to high	Slight to medium	Poor to practically impervious	Rubber-tired roller, sheepsfoot roller	100-135	5-20	100-300
Fine-Grained Soils	Silts and Clays L.L. is less than 50	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands or clayey silts with slight plasticity	Poor to fair	Not suitable	Not suitable	Medium to very high	Slight to medium	Fair to poor	Rubber-tired roller, sheepsfoot roller; close control of moisture	90-130	15 or less	100-200
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	Poor to fair	Not suitable	Not suitable	Medium to high	Medium	Practically impervious	Rubber-tired roller, sheepsfoot roller	90-130	15 or less	50-150
		OL	Organic silts and organic silt-clays of low plasticity	Poor	Not suitable	Not suitable	Medium to high	Medium to high	Poor	Rubber-tired roller, sheepsfoot roller	90-105	5 or less	50-100
	Silts and Clays L.L. is Greater than 50	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts	Poor	Not suitable	Not suitable	Medium to very high	High	Fair to poor	Sheepsfoot roller, rubber-tired roller	80-105	10 or less	50-100
		CH	Inorganic clays of medium to high plasticity, organic silts	Poor to fair	Not suitable	Not suitable	Medium	High	Practically impervious	Sheepsfoot roller, rubber-tired roller	90-115	15 or less	50-150
		OH	Organic clays of high plasticity, fat clays	Poor to very poor	Not suitable	Not suitable	Medium	High	Practically impervious	Sheepsfoot roller, rubber-tired roller	80-110	5 or less	25-100
Highly Organic Soils		Pt	Peat and other highly organic soils	Not suitable	Not suitable	Not suitable	Slight	Very high	Fair to poor	Compaction not practical	—	—	—

Note:

(1) Unit Dry Weights are for compacted soil at optimum moisture content for modified AASHO compaction effort. Division of GM and SM groups into subdivision of d and u are for roads and airfields only. Subdivision is basis of Atterberg limits; suffix d (e.g., GMd) will be used when the liquid limit (L.L.) is 25 or less and the plasticity index is 6 or less; the suffix u will be used otherwise.

(2) The maximum value that can be used in design of airfields is, in some cases, limited by gradation and plasticity requirements.

REPORT 1

NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG

Boring No. GP-12

PROJECT:	Mohawk Honda	**SHEET NO.**	1 of 2
CLIENT:	Haraden Motor Car Corp.	**JOB NO.**	02.08164
DRILLING CONTRACTOR:	Northeastern Environmental Technologies Corporation	**M.P. ELEV.**	NM
PURPOSE:	Subsurface Investigation	**GR. ELEV.**	NM
DRILLING METHOD:	Direct Push	**DATUM**	100.00 ft
DRILL RIG:	Geoprobe 540U	**DATE START**	June 20, 2003
GROUND WATER LEVEL:	+/- 8.0'	**DATE FINISH**	June 20, 2003
MEASURING PT.:	Ground	**DRILLER**	T. Scott
DATE:	June 20,2003	**INSPECTOR**	B. Cook

	Soil Sample	GW Sample	Sample Method
TYPE	Macro	-----	----
DIAM.	2.0"	----	----
Sample	Yes	No	No
Screen	-----	----	----

Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS
1.0	S-1	Bkg	SM	Asphalt	R= 3.5'
2.0				Br mfS, s G	No Odor
3.0				Brown medium to fine SAND, some Gravel	Dry
4.0					
5.0	S-2	Bkg	SM	Same as above	R=3.5'
6.0					No Odor
7.0					Dry
8.0					
9.0	S-3	Bkg	SM	Br mcS (+/- 8.0 ft)	R=3.0'
10.0					No Odor
11.0					WET
12.0					
13.0	S-4	Bkg	SM		R=3.2
14.0					No Odor
15.0					WET
16.0			SM	Dk Gr mfS (+/- 15.0 ft)	
17.0	S-4	Bkg	SM	Br mfS (+/- 16.0 ft)	R=3.2'
18.0					No Odor
19.0					WET
20.0					

Groundwater sample not collected

Soil Boring Completed @ 26.0 feet

Shipping Address: 1476 Route 50 Ballston Spa, NY 12020 (518) 884-8545 - Phone
Mailing Address: P.O. Box 2167 Ballston Spa, NY 12020 (518) 884-9710 - Fax

NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG

Boring No. GP-12

PROJECT: Mohawk Honda | **SHEET NO.** 2 of 2

CLIENT: Haraden Motor Car Corp. | **JOB NO.** 02.08164

Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS
21.0					
22.0					
23.0					
24.0					
25.0				Br mfS a. $ (+/- 24.0 ft)	R=2.0'
26.0	S-6	Bkg	SM	Note: Large Bore (LB) Sample	No Odor/WET
27.0				End of Boring 26.0 feet	
28.0					
29.0					
30.0					
31.0					
32.0					
33.0					
34.0					
35.0					
36.0					
37.0					
38.0					
39.0					
40.0					
41.0					
42.0					

Groundwater sample not collected

Soil Boring Completed @ 26.0 feet

Shipping Address: 1476 Route 50 Malta, NY 12020 (518) 884-8545 - Phone
Mailing Address: P.O. Box 2167 Malta, NY 12020 (518) 884-9710 - Fax

NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG

Boring No. GP-13

PROJECT: Mohawk Honda	**SHEET NO.** 1 of 2
CLIENT: Haraden Motor Car Corp.	**JOB NO.** 02.08164
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corporation	**M.P. ELEV.** NM
PURPOSE: Subsurface Investigation	**GR. ELEV.** NM
DRILLING METHOD: Direct Push	**DATUM** 100.00 ft
DRILL RIG: Geoprobe 540U	**DATE START** June 20, 2003
GROUND WATER LEVEL: +/- 8.0'	**DATE FINISH** June 20, 2003
MEASURING PT.: Ground	**DRILLER** T. Scott
DATE: June 20,2003	**INSPECTOR** B. Cook

	Soil Sample	GW Sample	Sample Method
TYPE	Macro	-----	----
DIAM.	2.0"	----	----
Sample	Yes	No	No
Screen	-----	----	----

Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS
1.0				Asphalt	R=3.6'
2.0				Br mfS, s G	No Odor
3.0	S-1	Bkg	SM	Brown medium to fine SAND, some Gravel	Dry
4.0					
5.0				Same as above	R=1.2'
6.0					No Odor
7.0	S-2	Bkg	SM	Concrete Refusal - Augered to 8.0'	Dry
8.0					
9.0				Br c-fS, s $; occ lyr Bk slag, asphalt (+/- 8.0 ft)	R=4.0'
10.0					No Odor
11.0	S-3	Bkg	SM		WET
12.0					
13.0				Br c-fS, s $ (+/- 15.0 ft)	R=4.0'
14.0					No Odor
15.0	S-4	Bkg	SM		WET
16.0					
17.0					
18.0				Advance LB to 20.0 feet.	
19.0					
20.0					

Groundwater sample not collected

Soil Boring Completed @ 22.0 feet

Shipping Address: 1476 Route 50 Ballston Spa, NY 12020 (518) 884-8545 - Phone
Mailing Address: P.O. Box 2167 Ballston Spa, NY 12020 (518) 884-9710 - Fax

NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG

Boring No. GP-13

PROJECT: Mohawk Honda — **SHEET NO.** 2 of 2

CLIENT: Haraden Motor Car Corp. — **JOB NO.** 02.08164

Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS
21.0				Gr c-fS a $, t cG; occ shells, ash	R=1.0'
22.0	S-4	Bkg		Note: Large Bore (LB) Sample	No Odor/WET
23.0				End of Boring 22.0 feet	
24.0					
25.0					
26.0					
27.0					
28.0					
29.0					
30.0					
31.0					
32.0					
33.0					
34.0					
35.0					
36.0					
37.0					
38.0					
39.0					
40.0					
41.0					
42.0					

Groundwater sample not collected

Soil Boring Completed @ 22.0 feet

Shipping Address: 1476 Route 50 Malta, NY 12020 (518) 884-8545 - Phone
Mailing Address: P.O. Box 2167 Malta, NY 12020 (518) 884-9710 - Fax

NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG

Boring No. GP-14

PROJECT:	Mohawk Honda	**SHEET NO.**	1 of 1
CLIENT:	Haraden Motor Car Corp.	**JOB NO.**	02.08164
DRILLING CONTRACTOR:	Northeastern Environmental Technologies Corporation	**M.P. ELEV.**	NM
PURPOSE:	Subsurface Investigation	**GR. ELEV.**	NM
DRILLING METHOD:	Direct Push	**DATUM**	100.00 ft
DRILL RIG:	Geoprobe 540U	**DATE START**	June 20, 2003
GROUND WATER LEVEL:	N/A	**DATE FINISH**	June 20, 2003
MEASURING PT.:	Ground	**DRILLER**	P. Kemble
DATE:	June 20, 2003	**INSPECTOR**	T. Scott

	Soil Sample	GW Sample	Sample Method
TYPE	Macro	-----	----
DIAM.	2.0"	----	----
Sample	Yes	No	No
Screen	-----	----	----

Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS
1.0	S-1	Bkg	SM	Asphalt	R=Cuttings
2.0				Br cfS, s $ — Augered to 6.0'	No Odor
3.0				Brown coarse to fine SAND, some Silt	Dry
4.0					
5.0	S-2	Bkg		Same as above	R=Cuttings
6.0					No Odor/Dry
7.0				End of Boring 6.0' - Refusal Concrete	
8.0					
9.0				Note: Moved boring location five times refusal on concrete each time.	
10.0					
11.0					
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

Groundwater sample not collected

Soil Boring Completed @ 6.0 feet

Shipping Address: 1476 Route 50 Ballston Spa, NY 12020 (518) 884-8545 - Phone
Mailing Address: P.O. Box 2167 Ballston Spa, NY 12020 (518) 884-9710 - Fax

NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG

Boring No. GP-15

PROJECT: Mohawk Honda	**SHEET NO.** 1 of 1
CLIENT: Haraden Motor Car Corp.	**JOB NO.** 02.08164
DRILLING CONTRACTOR: Northeastern Environmental Technologies Corporation	**M.P. ELEV.** NM
PURPOSE: Subsurface Investigation	**GR. ELEV.** NM
DRILLING METHOD: Direct Push	**DATUM** 100.00 ft
DRILL RIG: Geoprobe 540U	**DATE START** June 23, 2003
GROUND WATER LEVEL: +/- 10.0'	**DATE FINISH** June 23, 2003
MEASURING PT.: Ground	**DRILLER** P. Kemble
DATE: June 23, 2003	**INSPECTOR** T. Scott

	Soil Sample	GW Sample	Sample Method
TYPE	Macro	-----	----
DIAM.	2.0"	----	----
Sample	Yes	No	No
Screen	-----	----	----

Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS
1.0				Asphalt	R=Cuttings
2.0				Dk Br cfS, s $ — Augered to 4.0'	No Odor
3.0			SM	Dark Brown coarse to fine SAND, some Silt	Damp
4.0					
5.0				Br c-fS, s $ (+/- 4.0 ft)	R=3.7'
6.0					No Odor
7.0	S-1	Bkg	SM		Damp
8.0					
9.0				Same as above	R=3.8'
10.0					No Odor
11.0	S-2	Bkg	SM		Damp to WET
12.0					
13.0				Same as above	R=3.9'
14.0					No Odor
15.0	S-3	Bkg	SM		WET
16.0					
17.0				End of Boring 16.0 feet	
18.0					
19.0					
20.0					

Groundwater sample not collected

Soil Boring Completed @ 6.0 feet

Shipping Address: 1476 Route 50 Ballston Spa, NY 12020 (518) 884-8545 - Phone
Mailing Address: P.O. Box 2167 Ballston Spa, NY 12020 (518) 884-9710 - Fax

NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG

Boring No. GP-16

PROJECT:	Mohawk Honda				**SHEET NO.**	1 of 1
CLIENT:	Haraden Motor Car Corp.				**JOB NO.**	02.08164
DRILLING CONTRACTOR:	Northeastern Environmental Technologies Corporation				**M.P. ELEV.**	NM
PURPOSE:	Subsurface Investigation				**GR. ELEV.**	NM
DRILLING METHOD:	Direct Push		**Soil Sample**	**GW Sample**	**Sample Method**	**DATUM**	100.00 ft
DRILL RIG:	Geoprobe 540U	**TYPE**	Macro	-----	----	**DATE START**	June 23, 2003
GROUND WATER LEVEL:	+/- 10.0'	**DIAM.**	2.0"	----	----	**DATE FINISH**	June 23, 2003
MEASURING PT.:	Ground	**Sample**	Yes	No	No	**DRILLER**	P. Kemble
DATE:	June 23, 2003	**Screen**	-----	----	----	**INSPECTOR**	T. Scott

Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS
1.0				Asphalt	R=Cuttings
2.0				Dk Br cfS, s $ — Augered to 4.0'	No Odor
3.0			SM	Dark Brown coarse to fine SAND, some Silt	Dry
4.0					
5.0				Br c-fS, s $ (+/- 4.0 ft)	R=3.6'
6.0					No Odor
7.0	S-1	Bkg	SM		Damp
8.0					
9.0				Br c-fS, s $; occ lyr Bk ash, brk, gls, wd	R=3.8'
10.0					No Odor
11.0	S-2	Bkg	SM		Dry
12.0					
13.0				Same as above	R=3.7'
14.0					No Odor
15.0	S-3	Bkg	SM		Damp
16.0					
17.0				Br c-fS, s $; occ lyr Br Gr c-fS, s $	R=3.9'
18.0					No Odor
19.0	S-4	Bkg	SM		WET
20.0				End of boring 20.0 feet	

Groundwater sample not collected

Soil Boring Completed @ 20.0 feet

Shipping Address: 1476 Route 50 Ballston Spa, NY 12020 (518) 884-8545 - Phone
Mailing Address: P.O. Box 2167 Ballston Spa, NY 12020 (518) 884-9710 - Fax

NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG

Boring No. GP-17

PROJECT:	Mohawk Honda	**SHEET NO.**	1 of 1
CLIENT:	Haraden Motor Car Corp.	**JOB NO.**	02.08164
DRILLING CONTRACTOR:	Northeastern Environmental Technologies Corporation	**M.P. ELEV.**	NM
PURPOSE:	Subsurface Investigation	**GR. ELEV.**	NM
DRILLING METHOD:	Direct Push	**DATUM**	100.00 ft
DRILL RIG:	Geoprobe 540U	**DATE START**	June 23, 2003
GROUND WATER LEVEL:	N/A	**DATE FINISH**	June 23, 2003
MEASURING PT.:	Ground	**DRILLER**	P. Kemble
DATE:	June 23, 2003	**INSPECTOR**	T. Scott

	Soil Sample	GW Sample	Sample Method
TYPE	Macro	-----	----
DIAM.	2.0"	----	----
Sample	Yes	No	No
Screen	-----	----	----

Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS
1.0				Asphalt	R=3.5'
2.0				Br mfS, s $	No Odor
3.0	S-1	Bkg	SM	Brown medium to fine SAND, some Silt	Dry
4.0					
5.0				Same as above	R=1.5'
6.0	S-2	Bkg	SM		No Odor/Dry
7.0				End of Boring 6.0 feet	
8.0					
9.0				Note: Moved boring location three times refusal on concrete each time.	
10.0					
11.0					
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

Groundwater sample not collected

Soil Boring Completed @ 20.0 feet

Shipping Address: 1476 Route 50 Ballston Spa, NY 12020 (518) 884-8545 - Phone
Mailing Address: P.O. Box 2167 Ballston Spa, NY 12020 (518) 884-9710 - Fax

NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG

Boring No. GP-18

PROJECT:	Mohawk Honda	**SHEET NO.**	1 of 1
CLIENT:	Haraden Motor Car Corp.	**JOB NO.**	02.08164
DRILLING CONTRACTOR:	Northeastern Environmental Technologies Corporation	**M.P. ELEV.**	NM
PURPOSE:	Subsurface Investigation	**GR. ELEV.**	NM
DRILLING METHOD:	Direct Push	**DATUM**	100.00 ft
DRILL RIG:	Geoprobe 540U	**DATE START**	June 23, 2003
GROUND WATER LEVEL:	+/- 11.0'	**DATE FINISH**	June 23, 2003
MEASURING PT.:	Ground	**DRILLER**	P. Kemble
DATE:	June 23, 2003	**INSPECTOR**	T. Scott

	Soil Sample	GW Sample	Sample Method
TYPE	Macro	-----	----
DIAM.	2.0"	----	----
Sample	Yes	No	No
Screen	-----	----	----

Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS
1.0				Asphalt	R=Cuttings
2.0				Br mfS, s $ — Augered to 8.0'	No Odor
3.0				Brown medium to fine SAND, some Silt	Dry
4.0					
5.0					
6.0					
7.0					
8.0					
9.0				Br mfS, s $ (+/- 8.0 ft)	R=3.8'
10.0					No Odor
11.0	S-1	Bkg			Damp
12.0					
13.0				Same as above	R=4.0'
14.0					No Odor
15.0	S-2	Bkg			WET
16.0					
17.0				End of Boring 16.0 feet	
18.0					
19.0					
20.0					

Groundwater sample not collected

Soil Boring Completed @ 16.0 feet

Shipping Address: 1476 Route 50 Ballston Spa, NY 12020 (518) 884-8545 - Phone
Mailing Address: P.O. Box 2167 Ballston Spa, NY 12020 (518) 884-9710 - Fax

NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES

TEST BORING LOG

Boring No. GP-19

PROJECT:	Mohawk Honda	**SHEET NO.**	1 of 1
CLIENT:	Haraden Motor Car Corp.	**JOB NO.**	02.08164
DRILLING CONTRACTOR:	Northeastern Environmental Technologies Corporation	**M.P. ELEV.**	NM
PURPOSE:	Subsurface Investigation	**GR. ELEV.**	NM
DRILLING METHOD:	Direct Push	**DATUM**	100.00 ft
DRILL RIG:	Geoprobe 540U	**DATE START**	June 23, 2003
GROUND WATER LEVEL:	N/A	**DATE FINISH**	June 23, 2003
MEASURING PT.:	Ground	**DRILLER**	P. Kemble
DATE:	June 23, 2003	**INSPECTOR**	T. Scott

	Soil Sample	GW Sample	Sample Method
TYPE	Macro	-----	----
DIAM.	2.0"	----	----
Sample	Yes	No	No
Screen	-----	----	----

Depth (feet)	Sample ID	Peak PID (ppm) bkg=0.0	Unified Soil Class. System	GEOLOGIC DESCRIPTION	REMARKS
1.0	S-1	Bkg	SM	Asphalt - Gray Gravel	R=3.1'
2.0				Br mfS, s $	No Odor
3.0				Brown medium to fine SAND, some Silt	Dry
4.0					
5.0	S-2	Bkg	SM	Same as above	R=1.5'
6.0					No Odor/Dry
7.0				End of Boring 6.0 feet - Refusal Concrete	
8.0					
9.0					
10.0					
11.0					
12.0					
13.0					
14.0					
15.0					
16.0					
17.0					
18.0					
19.0					
20.0					

Groundwater sample not collected

Soil Boring Completed @ 6.0 feet

Shipping Address: 1476 Route 50 Ballston Spa, NY 12020 (518) 884-8545 - Phone
Mailing Address: P.O. Box 2167 Ballston Spa, NY 12020 (518) 884-9710 - Fax

APPENDIX E

CITY OF ALBANY SOIL DISPOSAL REPORT

NORTHEASTERN
ENVIRONMENTAL
TECHNOLOGIES CORP.
1476 Route 50, P.O. Box 2167, Ballston Spa, NY 12020
Phone: (518) 884-8545 Fax: (518) 884-9710 e-mail: jwink@attglobal.net

Grid Summary Report

Detailed Report for For the Period 07/08/2003 - 07/10/2003
Sites 00 - 99 Grids - xxxxxxxxxx
Materials - ZZZZZZZZZZ Material Types - z Accounts 6035 - 6035 Customer Types - x

Date	Grid	Material	Customer	Tickets	Count	Volume	Net Wt.
07/08/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-151963	0	0	29.78
07/08/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-151994	0	0	34.94
07/08/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152032	0	0	30.74
07/08/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152040	0	0	35.64
07/08/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152047	0	0	30.92
07/09/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152078	0	0	36.36
07/09/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152081	0	0	33.18
07/09/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152090	0	0	33.15
07/09/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152110	0	0	36.32
07/09/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152113	0	0	34.61
07/09/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152126	0	0	33.50
07/09/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152144	0	0	35.21
07/09/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152165	0	0	37.53
07/09/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152183	0	0	33.52
07/09/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152198	0	0	36.56
07/09/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152211	0	0	33.06
07/09/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152214	0	0	33.51
07/09/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152232	0	0	37.03
07/09/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152247	0	0	34.97
07/09/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152249	0	0	32.85
07/10/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152279	0	0	38.73
07/10/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152280	0	0	32.19
07/10/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152300	0	0	35.08
07/10/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152303	0	0	36.53
07/10/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152339	0	0	35.58
07/10/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152348	0	0	33.44
07/10/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152374	0	0	35.03
07/10/03	P4 CELLS 7,8,9	PCS	NORTHEASTERN ENVIRONM	02-152379	0	0	4.84
			Total	28	0	0	934.80
			Report Total	28	0	0	934.80

REPORT 1

APPENDIX F

WATER QUALITY REPORTS

NORTHEASTERN
ENVIRONMENTAL
TECHNOLOGIES CORP.
1476 Route 50, P.O. Box 2167, Ballston Spa, NY 12020
Phone: (518) 884-8545 Fax: (518) 884-9710 e-mail: jwink@attglobal.net

INFLUENT WATER QUALITY REPORT

NORTHEASTERN
ENVIRONMENTAL
TECHNOLOGIES CORP.

Upstate Laboratories inc.

Shipping: 6034 Corporate Dr. • E. Syracuse, NY 13057-1017 • (315) 437-0255 • Fax (315) 437-1209
Mailing: Box 289 • Syracuse, NY 13206
Albany (518) 459-3134
Binghamton (607) 724-0478
Buffalo (716) 649-2533
Rochester (585) 436-9070
New Jersey (201) 343-5353

July 7, 2003

Mr. Jeff Wink
NE Environmental Tech. Corp.
P.O. Box 2167
Ballston Spa, NY 12020

Re: Analysis Report #17403045 - Mohawk Honda

Dear Mr. Wink:

Please find enclosed the results for your samples which were received on June 20, 2003.

We have included the Chain of Custody Record as part of your report. You may need to reference this form for a more detailed explanation of your sample. Samples will be disposed of approximately one month from final report date.

Should you have any questions, please feel free to give us a call.

Thank you for your patronage.

Sincerely,

UPSTATE LABORATORIES, INC.

Anthony J. Scala
Director

AJS/ac

Enclosures: report, invoice

cc/encs: N. Scala, ULI
file

Note: Faxed results were given to your office on 6/26 and 7/3/03. AJS

Disclaimer: The test results and procedures utilized, and laboratory interpretations of data obtained by ULI as contained in this report are believed by ULI to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of ULI for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

DATE: 07/07/03

Upstate Laboratories, Inc.
Analysis Results
Report Number: 17403045
Client I.D.: NE ENVIRONMENTAL TECH., CORP.
Sampled by: Client

APPROVAL:
QC:
Lab I.D.: 10170
MOHAWK HONDA
UST-1/2 EXCAVATION WATER 1115H 06/20/03 G

ULI I.D.: 17403045 Matrix: Water

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
EPA 502.2						
Dichlorodifluoromethane	<10ug/l		06/26/03	1		VA6912
Chloromethane	<10ug/l		06/26/03	1		VA6912
Vinyl Chloride	<10ug/l		06/26/03	1		VA6912
Bromomethane	<10ug/l		06/26/03	1		VA6912
Chloroethane	<10ug/l		06/26/03	1		VA6912
Trichlorofluoromethane	<10ug/l		06/26/03	1		VA6912
1,1-Dichloroethene	<10ug/l		06/26/03	1		VA6912
Methylene Chloride	<10ug/l		06/26/03	1		VA6912
trans-1,2-Dichloroethene	<10ug/l		06/26/03	1		VA6912
1,1-Dichloroethane	<10ug/l		06/26/03	1		VA6912
cis-1,2-Dichloroethene	<10ug/l		06/26/03	1		VA6912
Bromochloromethane	<10ug/l		06/26/03	1		VA6912
Chloroform	<10ug/l		06/26/03	1		VA6912
2,2-Dichloropropane	<10ug/l		06/26/03	1		VA6912
1,2-Dichloroethane	<10ug/l		06/26/03	1		VA6912
1,1,1-Trichloroethane	<10ug/l		06/26/03	1		VA6912
1,1-Dichloropropene	<10ug/l		06/26/03	1		VA6912
Carbon Tetrachloride	<10ug/l		06/26/03	1		VA6912
Dibromomethane	<10ug/l		06/26/03	1		VA6912
1,2-Dichloropropane	<10ug/l		06/26/03	1		VA6912
Trichloroethene	<10ug/l		06/26/03	1		VA6912
Bromodichloromethane	<10ug/l		06/26/03	1		VA6912
cis-1,3-Dichloropropene	<10ug/l		06/26/03	1		VA6912
trans-1,3-Dichloropropene	<10ug/l		06/26/03	1		VA6912
1,1,2-Trichloroethane	<10ug/l		06/26/03	1		VA6912
1,3-Dichloropropane	<10ug/l		06/26/03	1		VA6912
Dibromochloromethane	<10ug/l		06/26/03	1		VA6912
1,2-Dibromoethane	<10ug/l		06/26/03	1		VA6912
Tetrachloroethene	<10ug/l		06/26/03	1		VA6912
1,1,1,2-Tetrachloroethane	<10ug/l		06/26/03	1		VA6912
Bromoform	<10ug/l		06/26/03	1		VA6912
1,1,2,2-Tetrachloroethane	<10ug/l		06/26/03	1		VA6912
1,2,3-Trichloropropane	<10ug/l		06/26/03	1		VA6912
1,2-Dibromo-3-chloropropane	<10ug/l		06/26/03	1		VA6912
Benzene	<10ug/l		06/26/03	1		VA6912
Toluene	<10ug/l		06/26/03	1		VA6912
Chlorobenzene	<10ug/l		06/26/03	1		VA6912
Ethylbenzene	<10ug/l		06/26/03	1		VA6912

DATE: 07/07/03

Upstate Laboratories, Inc.
Analysis Results
Report Number: 17403045
Client I.D.: NE ENVIRONMENTAL TECH., CORP.
Sampled by: Client

APPROVAL: _____
QC: _____
Lab I.D.: 10170
MOHAWK HONDA
UST-1/2 EXCAVATION WATER 1115H 06/20/03 G

ULI I.D.: 17403045 Matrix: Water

PARAMETERS	RESULTS	TIME	DATE ANAL.	KEY	KEY	FILE#
m-xylene and p-xylene	<20ug/l		06/26/03	1		VA6912
Styrene	<10ug/l		06/26/03	1		VA6912
o-xylene	17ug/l		06/26/03			VA6912
Isopropylbenzene	13ug/l		06/26/03			VA6912
Bromobenzene	<10ug/l		06/26/03	1		VA6912
n-Propylbenzene	16ug/l		06/26/03			VA6912
2-Chlorotoluene	<10ug/l		06/26/03	1		VA6912
4-Chlorotoluene	<10ug/l		06/26/03	1		VA6912
1,3,5-Trimethylbenzene	<10ug/l		06/26/03	1		VA6912
tert-Butylbenzene	<10ug/l		06/26/03	1		VA6912
1,2,4-Trimethylbenzene	47ug/l		06/26/03			VA6912
sec-Butylbenzene	11ug/l		06/26/03			VA6912
1,3-Dichlorobenzene	<10ug/l		06/26/03	1		VA6912
1,4-Dichlorobenzene	<10ug/l		06/26/03	1		VA6912
4-Isopropyltoluene	11ug/l		06/26/03			VA6912
1,2-Dichlorobenzene	<10ug/l		06/26/03	1		VA6912
n-Butylbenzene	17ug/l		06/26/03			VA6912
1,2,4-Trichlorobenzene	<10ug/l		06/26/03	1		VA6912
Naphthalene	<10ug/l		06/26/03	1		VA6912
Hexachlorobutadiene	<10ug/l		06/26/03	1		VA6912
1,2,3-Trichlorobenzene	<10ug/l		06/26/03	1		VA6912
MTBE	<40ug/l		06/26/03	1		VA6912

EFFLUENT WATER QUALITY REPORT

NORTHEASTERN
ENVIRONMENTAL
TECHNOLOGIES CORP.

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

ANALYTICAL TEST RESULTS
N.Y.S.D.O.H. LAB ID#11140

CLIENT: Northeastern Environmental Technologies, Corp.
SAMPLE DESCRIPTION: Eff-1
MATRIX: Groundwater
LOCATION: Mohawk Honda
H.E.S.#: 030715G01

DATE SAMPLED: 07/14/03
TIME SAMPLED: 10:35 AM
DATE SAMPLE RECD: 07/15/03
TYPE SAMPLE: Grab
SAMPLER: W.Cook/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	SW846-8260B	<0.5	ug/l	07/15/03
Benzene	SW846-8260B	<0.5	ug/l	07/15/03
Toluene	SW846-8260B	<0.5	ug/l	07/15/03
Ethylbenzene	SW846-8260B	<0.5	ug/l	07/15/03
m-Xylene\p-Xylene	SW846-8260B	<0.5	ug/l	07/15/03
o-Xylene	SW846-8260B	<0.5	ug/l	07/15/03
Isopropylbenzene	SW846-8260B	<0.5	ug/l	07/15/03
n-Propylbenzene	SW846-8260B	<0.5	ug/l	07/15/03
1,3,5-Trimethylbenzene	SW846-8260B	<0.5	ug/l	07/15/03
tert,Butylbenzene	SW846-8260B	<0.5	ug/l	07/15/03
1,2,4-Trimethylbenzene	SW846-8260B	<0.5	ug/l	07/15/03
sec-Butylbenzene	SW846-8260B	<0.5	ug/l	07/15/03
p-Isopropyltoluene	SW846-8260B	<0.5	ug/l	07/15/03
n-Butylbenzene	SW846-8260B	<0.5	ug/l	07/15/03

Non-Target Peaks Negative

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Northeastern Environmental Technologies, Corp. DATE SAMPLED: 07/14/03

SAMPLE DESCRIPTION: Eff-2 TIME SAMPLED: 4:35 AM

MATRIX: Groundwater DATE SAMPLE RECD: 07/15/03

LOCATION: Mohawk Honda TYPE SAMPLE: Grab

H.E.S.#: 030715G02 SAMPLER: W.Cook/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	SW846-8260B	<0.5	ug/l	07/15/03
Benzene	SW846-8260B	<0.5	ug/l	07/15/03
Toluene	SW846-8260B	<0.5	ug/l	07/15/03
Ethylbenzene	SW846-8260B	<0.5	ug/l	07/15/03
m-Xylene\p-Xylene	SW846-8260B	<0.5	ug/l	07/15/03
o-Xylene	SW846-8260B	<0.5	ug/l	07/15/03
Isopropylbenzene	SW846-8260B	<0.5	ug/l	07/15/03
n-Propylbenzene	SW846-8260B	<0.5	ug/l	07/15/03
1,3,5-Trimethylbenzene	SW846-8260B	<0.5	ug/l	07/15/03
tert,Butylbenzene	SW846-8260B	<0.5	ug/l	07/15/03
1,2,4-Trimethylbenzene	SW846-8260B	<0.5	ug/l	07/15/03
sec-Butylbenzene	SW846-8260B	<0.5	ug/l	07/15/03
p-Isopropyltoluene	SW846-8260B	<0.5	ug/l	07/15/03
n-Butylbenzene	SW846-8260B	<0.5	ug/l	07/15/03

Non-Target Peaks Negative

Approval By: MLH

Date: 7/16/03

Hudson Environmental Services, Inc. certifies that the services provided were performed in accordance with the New York State Department of Health, Environmental Laboratory Approval Program certification manual. In the event of an error, HES's sole responsibility will be to perform reanalysis at its own expense. HES, Inc. assumes no other liability for damages incurred from the interpretation or use of the analysis provided.

HUDSON ENVIRONMENTAL SERVICES, INC.

Mail: 22 Hudson Falls Road, South Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., South Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

CHAIN OF CUSTODY RECORD/
Lab Work Request

Client: NETC
Client Contact/Person #: BILL COOK / JEFF WINK
Project Location: MOHAWK HANDA
Purchase Order:
HES Contact:

Mail Address:
Phone #:

HES Use Only Lab ID	Sample ID / Description	Date Collected	TIME A=a.m. P=p.m.	SAMPLE TYPE C=Composite G=Grab MATRIX	C	G	# Conts.	ANALYSIS REQUIRED
030715G01	EFF-1	7/14/03	1035 A	GW		X	2	STARS 8021
↓ G02	EFF-2	7/14/03	1135 P	GW		X	2	" "
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					

Matrix
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
O - Oil
DW - Drinking Water
GW - Ground Water
SW - Surface Water
L - Leachate
A - Air
WI - Wipe
DS - Drum Solids
DL - Drum Liquids
X - Other
WW - Waste Water

Special Instructions: NONE

Sampled by: (Signature) William Cook	Date/Time	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Date/Time	Received by: (Signature) W Pountney	Date/Time 7/15/03 1055
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Dispatched by: (Signature)	Method of Shipment: HES VAN		Date/Time
Received @ Laboratory: Sam Braun	Date/Time 7/15/03 12:28PM	Turnaround Time: 24 HOURS	Lab Approval:

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

HES Use Only

Samples Were:
1. Shipped or Hand Delivered
NOTES:

2. Ambient or Chilled
NOTES:

3. Received Broken/ Leaking (Improperly Scaled)
Y N
NOTES:

4. Properly Preserved
NOTES: Y N

5. Received Within Holding Times
Y N
NOTES:

COC Tape Was:
1. Present on Outer Package Y N
2. Unbroken on Outer Package Y N
3. Present on Sample Y N
4. Unbroken on Sample
NOTES: Y N

COC Record Was:
1. Present upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record?
Y N
NOTES:

REPORT 1

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

CLIENT: Northeastern Environmental Technologies, Corp. DATE SAMPLED: 07/14/03

SAMPLE DESCRIPTION: Eff-2 TIME SAMPLED: 4:35 AM

MATRIX: Groundwater DATE SAMPLE RECD: 07/15/03

LOCATION: Mohawk Honda TYPE SAMPLE: Grab

H.E.S.#: 030715G02 SAMPLER: W.Cook/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	SW846-8260B	<0.5	ug/l	07/15/03
Benzene	SW846-8260B	<0.5	ug/l	07/15/03
Toluene	SW846-8260B	<0.5	ug/l	07/15/03
Ethylbenzene	SW846-8260B	<0.5	ug/l	07/15/03
m-Xylene\p-Xylene	SW846-8260B	<0.5	ug/l	07/15/03
o-Xylene	SW846-8260B	<0.5	ug/l	07/15/03
Isopropylbenzene	SW846-8260B	<0.5	ug/l	07/15/03
n-Propylbenzene	SW846-8260B	<0.5	ug/l	07/15/03
1,3,5-Trimethylbenzene	SW846-8260B	<0.5	ug/l	07/15/03
tert,Butylbenzene	SW846-8260B	<0.5	ug/l	07/15/03
1,2,4-Trimethylbenzene	SW846-8260B	<0.5	ug/l	07/15/03
sec-Butylbenzene	SW846-8260B	<0.5	ug/l	07/15/03
p-Isopropyltoluene	SW846-8260B	<0.5	ug/l	07/15/03
n-Butylbenzene	SW846-8260B	<0.5	ug/l	07/15/03

Non-Target Peaks Negative

Approval By: [signature]

Date: 7/16/03

Hudson Environmental Services, Inc. certifies that the services provided were performed in accordance with the New York State Department of Health, Environmental Laboratory Approval Program certification manual. In the event of an error, HES's sole responsibility will be to perform reanalysis at its own expense. HES, Inc. assumes no other liability for damages incurred from the interpretation or use of the analysis provided.

HUDSON ENVIRONMENTAL SERVICES, INC.
Mail: 22 Hudson Falls Rd., So. Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., So. Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

ANALYTICAL TEST RESULTS
N.Y.S.D.O.H. LAB ID#11140

CLIENT: Northeastern Environmental Technologies, Corp. DATE SAMPLED: 07/15/03

SAMPLE DESCRIPTION: Eff-3 TIME SAMPLED: 2:05 PM

MATRIX: Groundwater DATE SAMPLE RECD: 07/17/03

LOCATION: Mohawk Honda TYPE SAMPLE: Grab

H.E.S.#: 030717G01 SAMPLER: W.Cook/NETC

PARAMETER	METHOD	RESULT	UNITS	TEST DATE
MTBE	SW846-8260B	<0.5	ug/l	07/18/03
Benzene	SW846-8260B	<0.5	ug/l	07/18/03
Toluene	SW846-8260B	<0.5	ug/l	07/18/03
Ethylbenzene	SW846-8260B	<0.5	ug/l	07/18/03
m-Xylene\p-Xylene	SW846-8260B	<0.5	ug/l	07/18/03
o-Xylene	SW846-8260B	<0.5	ug/l	07/18/03
Isopropylbenzene	SW846-8260B	<0.5	ug/l	07/18/03
n-Propylbenzene	SW846-8260B	<0.5	ug/l	07/18/03
1,3,5-Trimethylbenzene	SW846-8260B	<0.5	ug/l	07/18/03
tert,Butylbenzene	SW846-8260B	<0.5	ug/l	07/18/03
1,2,4-Trimethylbenzene	SW846-8260B	<0.5	ug/l	07/18/03
sec-Butylbenzene	SW846-8260B	<0.5	ug/l	07/18/03
p-Isopropyltoluene	SW846-8260B	<0.5	ug/l	07/18/03
n-Butylbenzene	SW846-8260B	<0.5	ug/l	07/18/03

Non-Target Peaks Negative

Approval By: ML

Date: 7/23/03

Hudson Environmental Services, Inc. certifies that the services provided were performed in accordance with the New York State Department of Health, Environmental Laboratory Approval Program certification manual. In the event of an error, HES's sole responsibility will be to perform reanalysis at its own expense. HES, Inc. assumes no other liability for damages incurred from the interpretation or use of the analysis provided.

HUDSON ENVIRONMENTAL SERVICES, INC.

Mail: 22 Hudson Falls Road, South Glens Falls, NY 12803
Delivery: 211 Ferry Blvd., South Glens Falls, NY 12803
Phone: 518/747-1060 Fax: 518/747-1062

CHAIN OF CUSTODY RECORD/
Lab Work Request

Client: NETC
Client Contact/Person #: BILL COOK / JEFF WINK
Project Location: MOHAWK HONDA
Purchase Order: —
HES Contact: BILL FRANKLIN

Mail Address: P.O. BOX 2167
BALLSTON SPA, NY
12020
Phone #: 518 884-8545

HES Use Only Lab ID	Sample ID / Description	Date Collected	TIME A=a.m. P=p.m.		SAMPLE TYPE C=Composite G=Grab MATRIX	C	G	# Conts.	ANALYSIS REQUIRED
030717601	EFF-3	7/15/03	2:05	A/P	GW		X	2	STARS 8021
				A/P					
				A/P					
				A/P					
				A/P					
				A/P					
				A/P					
				A/P					

Matrix
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
O - Oil
DW - Drinking Water
GW - Ground Water
SW - Surface Water
L - Leachate
A - Air
WI - Wipe
DS - Drum Solids
DL - Drum Liquids
X - Other
WW - Waste Water

Special Instructions: NONE

Sampled by: (Signature) William Cook	Date/Time	Received by: (Signature)	Date/Time 7/15/03 1125
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
Dispatched by: (Signature)	Method of Shipment: HES P/U		Date/Time
Received @ Laboratory:	Date/Time	Turnaround Time: 5-DAY TURN	Lab Approval:

WHITE - Lab Copy YELLOW - Sampler Copy PINK - Generator Copy

HES Use Only

Samples Were:
1. Shipped or Hand Delivered NOTES:
2. Ambient or Chilled NOTES: 12°C
3. Received Broken/ Leaking (Improperly Scaled) Y N NOTES:
4. Properly Preserved NOTES: Y N
5. Received Within Holding Times Y N NOTES:

COC Tape Was:
1. Present on Outer Package Y N
2. Unbroken on Outer Package Y N
3. Present on Sample Y N
4. Unbroken on Sample NOTES: Y N

COC Record Was:
1. Present upon Receipt of Samples Y N

Discrepancies Between Sample Labels and COC Record? Y N NOTES:

REPORT 1

APPENDIX G

PHOTO LOG

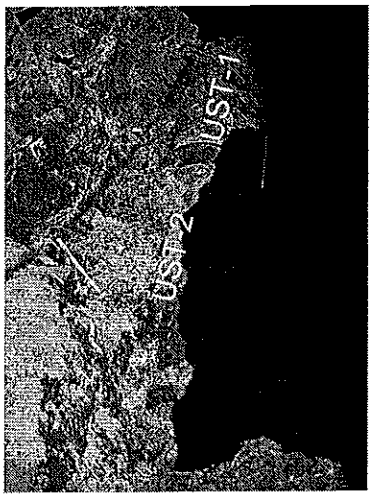
NORTHEASTERN
ENVIRONMENTAL
TECHNOLOGIES CORP.
1476 Route 50, P.O. Box 2167, Ballston Spa, NY 12020
Phone: (518) 884-8545 Fax: (518) 884-9710 e-mail: jwink@attglobal.net

NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES CORPORATION

Area 1 / UST-1 & 2



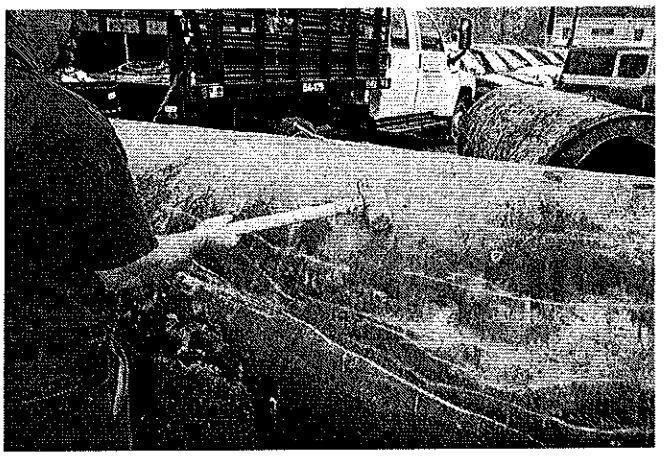
Exposing UST-1 & 2



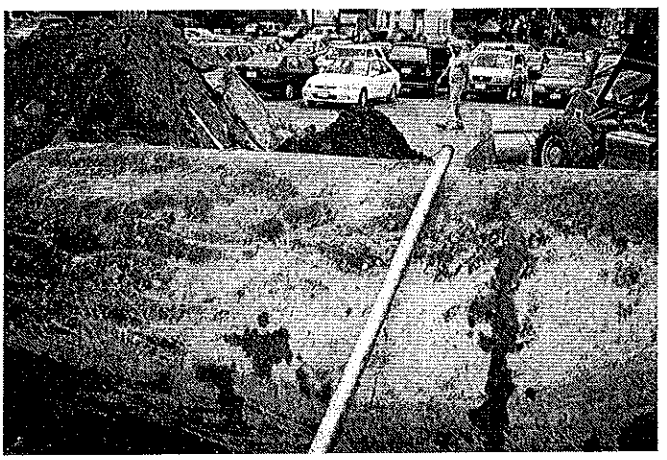
UST-1 and UST-2

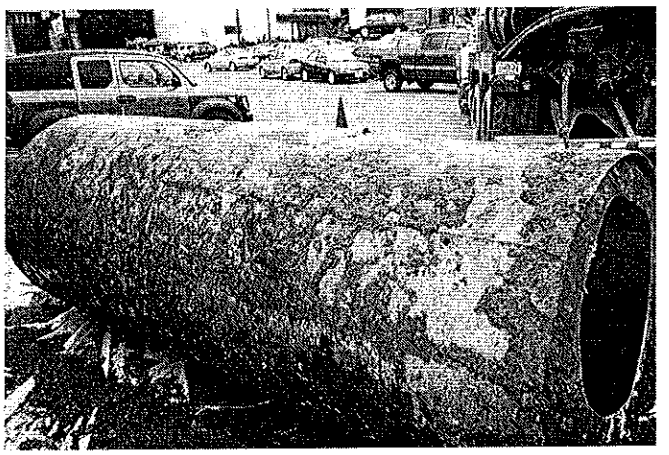


UST-1 & 2 after removal from excavation



Holes found in UST-1 & 2



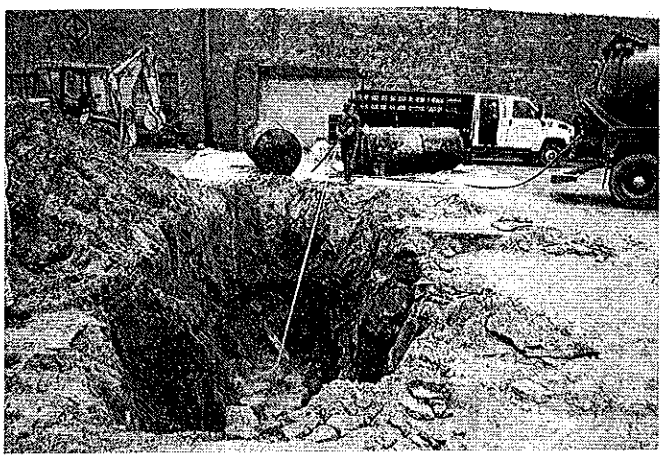


Holes found in UST-1 & 2

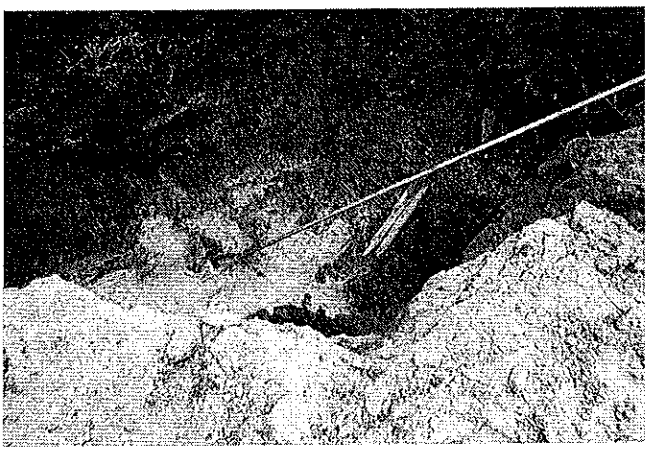
728 - 756 State Street
Schenectady, NY

NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES CORPORATION

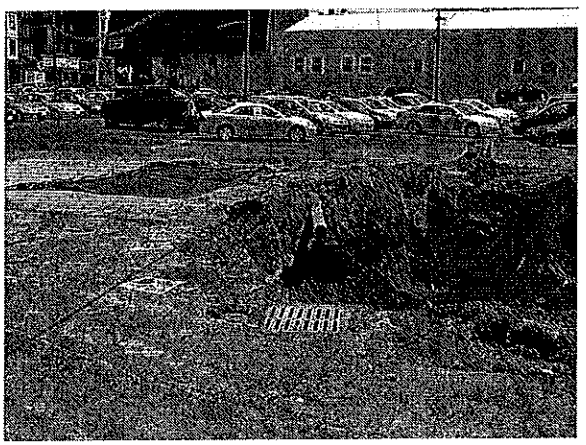
Area 1 / UST-1 & 2



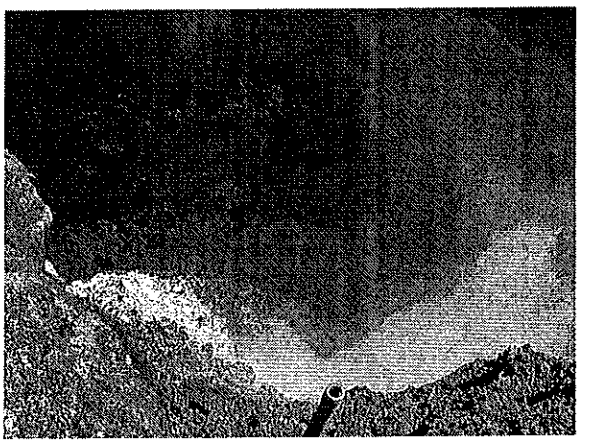
Excavation after UST removal



Remaining NAPL in excavation after UST removal

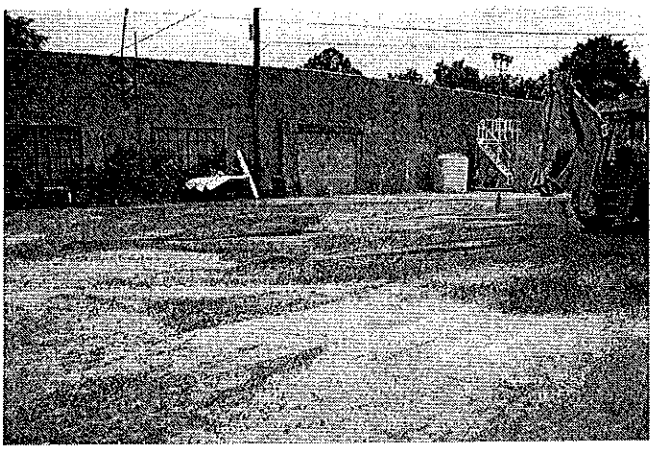


Northern edge of excavation



ORC application in the southwest corner of the excavation



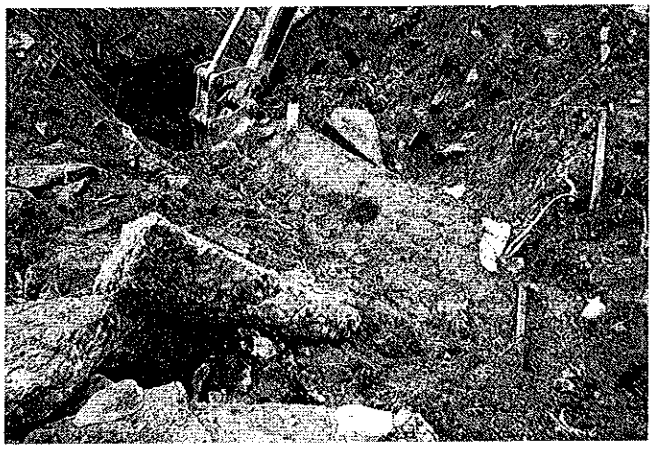


Excavation after completed soil removal and backfilling

728 - 756 State Street
Schenectady, NY

NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES CORPORATION

Area 2 / UST-3



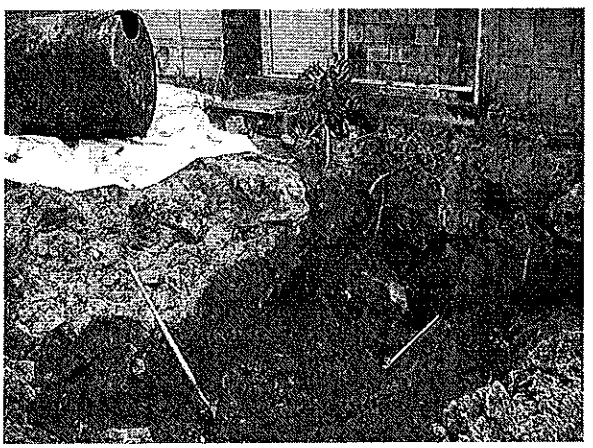
Exposing UST-3



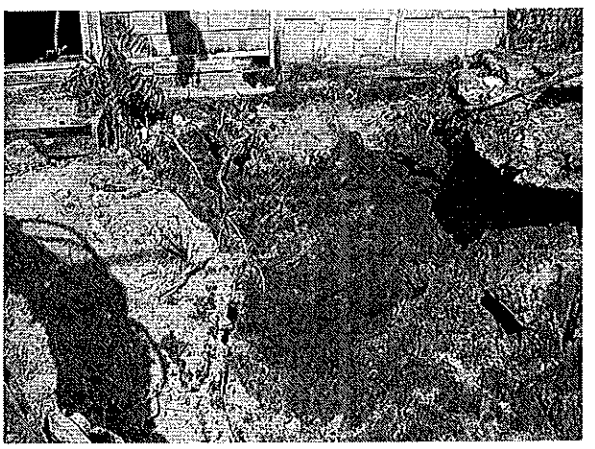
Exposing UST-3



UST-3 Removed from Excavation



Excavation after UST-3 removal



Excavation after UST-3 removal

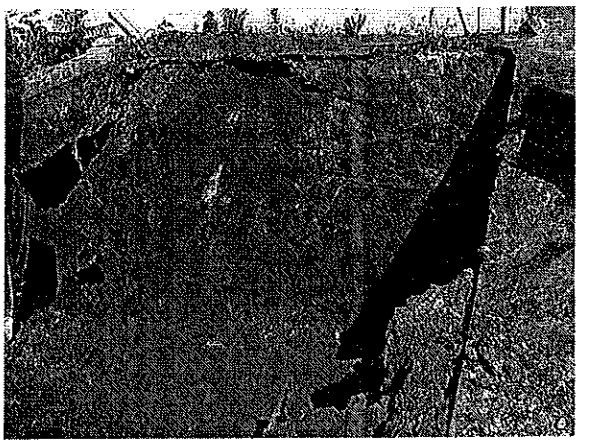
728 - 756 State Street
Schenectady, NY

NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES CORPORATION

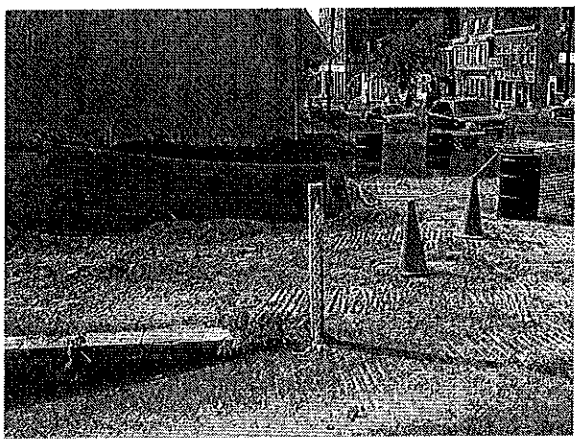
Area 3



Excavation of Area 3 - west side



Excavation of Area 3 - west side



Excavation Area 3 facing west



End of UST found in excavation

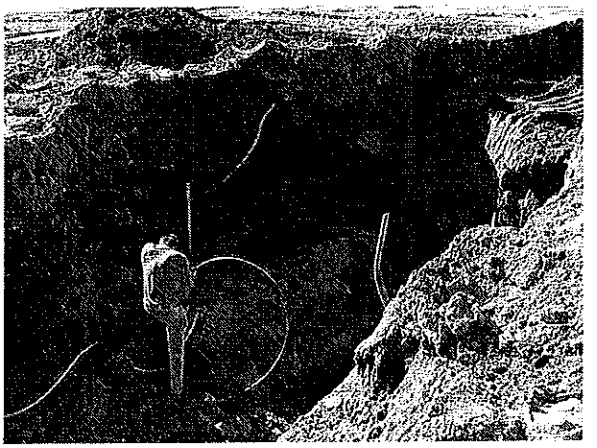
728 - 756 State Street
Schenectady, NY

NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES CORPORATION

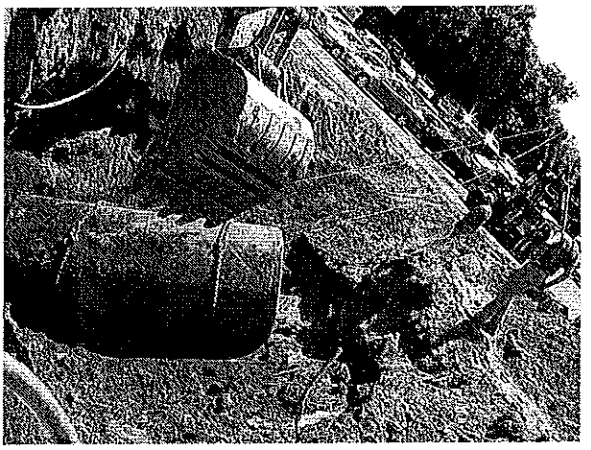
Area 4 / UST-4



Exposing UST-4



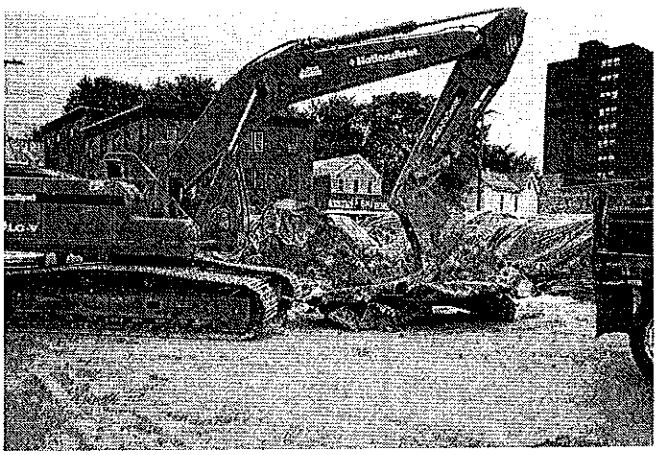
Flusking out of UST-4 using a Drum Vac



UST-4 Being removed from excavation



UST-4 removed from excavation and placed on plastic

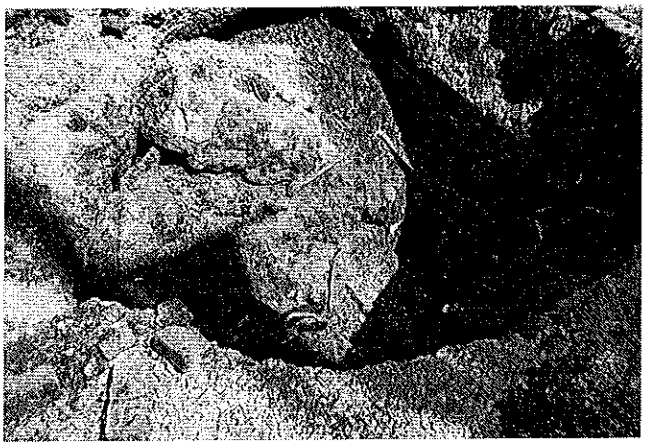


UST-4 Broken apart - metal being disposed of off site

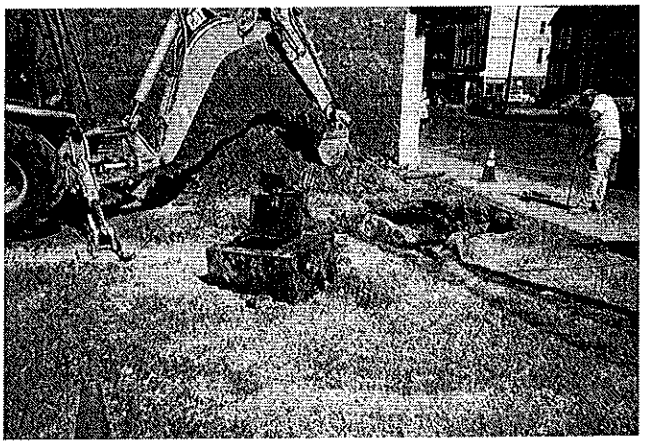
728 - 756 State Street
Schenectady, NY

NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES CORPORATION

Area 5



Excavation of Area 5 - facing northwest along sidwalk



Excavation of Area 5 - facing northwest - metal cabinet found in excavation



Stockpiled petroleum contaminated soil

728 - 756 State Street
Schenectady, NY

EXHIBIT 3

2023 LABELLA PHASE II ESA

June 1, 2023

Sumeet Gupta
Five Corners Development Corp.
41 Sarazen Street
Saratoga Springs, NY 12866
Sent via email sgupta@hbrownstone.com

RE: Phase II Environmental Site Assessment
742, 754, 756, and 758 State Street
Schenectady, NY 12307
LaBella Project No. 2230395

Dear Mr. Gupta:

LaBella Associates, D.P.C. ("LaBella") has completed a Phase II Environmental Site Assessment (ESA) at the above-referenced property (the "Site") (see **Figure 1**). As requested, this Phase II ESA was conducted to investigate a recognized environmental condition (REC) and one of the significant data gaps (SDGs), summarized below, in connection with past uses of the Site, as identified by LaBella's January 31, 2023, Phase I ESA.

- **REC 1:** Use of the Site for automotive-related activities and petroleum storage since at least the 1930s, and the reported subsurface impacts to the property greater than current NYSDEC standards.
- **SDG 1:** Lack of information regarding heating systems for the prior structures and current building.

This Phase II included a subsurface utility engineering (SUE) and ground penetrating radar (GPR) survey to remotely scan for evidence of subsurface anomalies suggesting the presence of potential underground storage tanks (USTs) and buried utilities to clear the soil boring locations. Then a focused subsurface investigation was completed to assess soil and groundwater conditions near identified anomalies and in SDG areas identified for investigation. The investigation included the installation of five (5) soil borings and five (5) temporary groundwater sampling points (TGSPs), and the collection and analysis of soil and groundwater samples to evaluate soil and groundwater quality. Each of the five (5) soil borings were also used as part of a geotechnical investigation and those results were reported separately.

LaBella's methods, observations, results, conclusions, and recommendations are included in the following sections with supporting documentation attached.

Subsurface Utility Engineering and Ground Penetrating Radar Survey

On April 19, 2023, LaBella performed the SUE and GPR survey near areas of existing/former Site structures to remotely scan for subsurface anomalies, including potential USTs, buried utilities, evidence of disturbed soil, buried debris, and to clear locations for soil borings and TGSPs. Identified features were marked on the ground surface with paint and/or flags. The image below shows the field sketch with approximate locations of features and utilities and the SUE field results summary is attached.



Evidence of three (3) anomalies suggestive of USTs were identified, in the following areas: one anomaly was in the area of the former autobody repair shop in the east-central Site area (former shop location indicated by yellow rectangle on Figure 2A); one anomaly was in the area of former lacquer spraying building area shown as a red square on Figure 2A (the location of the southern-most yellow UST anomaly pin logged via GPS was confirmed in the field to be incorrect, and the corrected location is shown above); and one anomaly in vicinity of the north-central parking lot area near where USTs and soil removal previously occurred (near green tanks icon shown on Figure 2A and removal areas shown on Figure 2B). Each anomaly was marked-out in white paint and the tops of the anomalies were noted to appear to be one to two feet below ground surface (bgs). Utilities located in the surveyed area included Site lighting indicated by red lines shown above, and a natural gas line at the northern corner of the Site building is indicated by a yellow line. Overhead electric was observed feeding the building.

Subsurface Soil and Groundwater Investigation

On May 2, 2023, a LaBella environmental professional and drilling crew mobilized to the Site with Geoprobe 3200 drilling equipment. The LaBella environmental professional directed the investigation, documented subsurface conditions, and prepared samples for laboratory analysis. The LaBella drilling crew advanced five soil borings in locations based on findings of the Phase I ESA and SUE/GPR survey. The boring locations (B-1 through B-5) are shown on **Figure 3**. Soil borings were screened for potential impacts, with the collection of soil and groundwater samples for laboratory analysis.

Soil Borings

As approved on April 30, 2023, five (5) soil borings were installed to assess environmental subsurface conditions and identified as B-1 through B-5 on **Figure 3**. The soil boring location plan was adjusted following the GPR survey to include locations near anomalies representing suspect USTs. Soil cores

were collected continuously from grade to the terminal depth using a split-spoon sampling system. Each soil boring was advanced to 15 feet bgs with the exception of boring B-2 that was advanced to 17 feet bgs, as requested for the geotechnical investigation conducted alongside this environmental investigation. Groundwater was encountered in the boring locations ranging in depth from approximately 8 to 12 feet bgs, but was not evident in boring B-3 during drilling. The soil cores were characterized and screened for visual and olfactory evidence of contamination, and the presence of volatile organic compounds (VOCs) using a photoionization detector (PID). Descriptive boring logs provide a record of the subsurface conditions encountered in each boring and are attached.

Evidence of urban fill was observed in the top two (2) feet of each of the five boring locations and at deeper intervals in borings B-2 (4 feet) and B-3 (9 feet). Observed fill material was noted to include brick, asphalt, and concrete fragments. No visual or olfactory evidence of impacts or elevated PID measurements was observed in soil borings B-1, B-2, B-3, and B-5. Elevated PID measurements ranging from 2.0 to 3.1 parts per million (ppm), petroleum-like odor and stained soil were noted in soil boring B-3 from approximately 8 to 15 feet bgs. Based on this evidence, and following communication with the client and property owner, a spill was reported to the New York State Department of Environmental Conservation (NYSDEC), who assigned NYSDEC Spill No. 2300878.

Soil Sampling

Five (5) soil samples were selected for laboratory analysis as listed in the table below. Based on the Site's history, samples were submitted for analyses of the following: NYSDEC Part 375 Full List or petroleum-range CP-51 List VOCs via USEPA Method 8260, CP-51 List semi-volatile organic compounds (SVOCs) via USEPA Method 8270, lead via USEPA method 6010, and/or RCRA 8 metals via USEPA Methods 6010 and 7471.

The table below summarizes sample names (borings as B-# and groundwater samples as TGSP-#), location descriptions, depth of soil samples, laboratory analyses performed, and investigation objectives.

Table A: Sample Location and Analysis Summary

Sample IDs	Exploration Location	Soil Sample Depth(s) (ft bgs)	Laboratory Analyses*	REC / SDG Investigated
B-1 & TGSP-1	Northern corner of Site to assess current conditions where impacts were removed in 2003 and a fill port was previously observed	8 to 10	CP-51 VOCS, CP-51 SVOCs (soil only), and lead	REC 1
B-2 & TGSP-2	East-Central near anomaly suggesting UST and in area of former autobody repair shop and where fuel oil tank shown on Sanborn map. One of the two borings originally planned in this area was relocated to a suspect UST anomaly.	8 to 10	TCL VOCs, CP-51 SVOCs (soil only), and RCRA 8 Metals,	REC 1 and SDG 1
B-3 & TGSP-3	Former lacquer spraying building area	14 to 15	TCL VOCs, CP-51 SVOCs (soil only), and RCRA 8 Metals,	REC 1 and SDG 1
B-4 & TGSP-4	South-Central anomaly suggesting UST	10 to 12	CP-51 VOCs CP-51 SVOCs (soil only), and lead	REC 1
B-5 & TGSP-5	North-Central by anomaly suggesting UST (previous nearby activities included removal of USTs and soil)	8 to 10	CP-51 VOCs, CP-51 SVOCs (soil only), and lead	REC 1

*Groundwater samples for were analyzed for both total and dissolved (lab filtered) metals.

Soil samples from borings B-1, B-2, and B-5 were collected from the groundwater interface. The soil sample collected from the bottom foot of boring B-3 as the groundwater interface was not evident in during drilling. The soil sample from B-4 was collected from the interval where evidence of impacts (i.e., elevated PID readings, staining, and petroleum odors) were observed.

Soil samples were submitted for analysis under standard Chain of Custody procedures to Phoenix Environmental Laboratories (Phoenix) of Manchester, Connecticut, a New York State Department of Health (NYSDOH) Environmental Laboratory Accreditation Program (ELAP) certified laboratory.

Temporary Groundwater Sampling Points

Soil borings B-1 through B-5 were converted to temporary groundwater sampling points (TGSPs). A 10-foot section of 1-inch PVC slotted screen (0.010") was placed in the open borehole and extended to grade with solid PVC riser. Using low-flow techniques and new, dedicated, disposable tubing, LaBella collected grab groundwater samples directly from the tubing using laboratory-provided containers. Following the sampling, the TGSPs were removed, the borings were backfilled with native material, and the ground surfaces were restored with asphalt.

Table A, above, lists laboratory analyses performed on the groundwater samples.

Analytical Results

Laboratory analytical data were reviewed, tabulated, and compared to applicable NYSDEC standards, criteria, and guidance (SCGs). Data summary tables are attached (**Tables 1 and 2**). Soil sample results were compared to the NYSDEC CP-51 soil cleanup levels for gasoline and fuel oil and also to 6 NYCRR Part 375-6.8 Unrestricted Use Soil Cleanup Objectives (UUSCOs). As additional points of reference, the soil results table also includes the Part 375 Residential Use SCO (RUSCOs), Restricted-Residential Use SCO (RRUSCOs), and Commercial Use SCO (CUSCOs), which are applicable to sites is a NYSDEC remediation program but can be helpful in property evaluation. Groundwater sample results were compared to NYSDEC Division of Water Technical and Operational Guidance (TOGS) 1.1.1 groundwater quality criteria (GWQC). A trip blank was also submitted for VOC analysis and to confirm adequate sample handling and shipment integrity. The analytical laboratory report is attached.

Soil and groundwater samples were collected from five borings/TGSPs in the investigated areas. Except for the following, soil results were less than CP-51 cleanup guidance and UUSCOs (**Table 1**), and groundwater sample results were less than GWQC (**Table 2**). QA/QC sample results are summarized in **Table 2**.

- VOC results for soil and groundwater samples were generally non-detect; however, the groundwater sample from TGSP-4 (B-4) reported five VOCs at concentrations greater than their respective GWQC.

- Results for SVOCs in soil samples were generally non-detect; however, the soil sample from B-3 identified six SVOCs at concentrations greater than their respective UUSCOs, four of which also exceeded their RRUSCOs and one exceeding its CUSCO.

- Select metals were detected in the soil samples from B-1 (lead) and B-3 (lead and mercury) at concentrations greater than their respective UUSCOs. While the lead concentration in the B-1 sample also exceed its RRUSCO, it was less than the CUSCO. The lead and mercury concentrations in the B-3 sample were less than the RUSCOs.

- Total lead concentrations in the TGSP-1, TGSP-3, TGSP-4, and TGSP-5 groundwater samples and four other metals in the TGSP-3 sample were greater than their GWQC. However, the corresponding dissolved concentrations at these four locations were significantly lower and less than the GWQC, and generally non-detect, suggesting that the reported total concentration was associated with sample turbidity and not actual groundwater quality.

- Results for the trip blank that accompanied the samples confirm the integrity of the samples was maintained during handling and shipment.

Following review of the laboratory analytical results, LaBella contacted the NYSDEC project manager, Mr. Joshua Utberg, and informed him of the analytical results to update the Spill record.

Conclusions and Recommendations

LaBella completed a Phase II ESA to look for evidence of suspect USTs and assess the condition of soil and groundwater at the Site with respect to a REC, one of the SDGs identified during the Phase I ESA, and in the areas of the three suspect UST anomalies. The Phase II ESA activities included a SUE/GPR survey and the collection of soil and groundwater samples for laboratory analysis.

The SUE/GPR survey identified evidence of three anomalies suggesting potential USTs. These anomalies were located near the former autobody repair building, the former lacquer spray building, and in the north-central Site area where a UST and soil removal activity was previously conducted. The tops of these anomalies appear to be between one and two feet bgs.

Soil and groundwater samples were collected from five borings/TGSPs in the investigated areas. With one exception, soil borings did not exhibit visual or olfactory evidence of VOC impacts. Laboratory results were generally non-detect or less than the SCGs, except as noted below.

- Soil sample B-3, collected from the former lacquer spraying building area, had field PID readings ranging from 2.0 to 3.1 ppm, petroleum-like odor, and stained soil. Based on field evidence of impacts, a spill was reported to the NYSDEC and assigned Spill No. 2300878. Concentrations of select SVOCs, lead and mercury in soil were greater than CP-51 cleanup levels and UUSCOs. Lead and mercury concentrations in soil were less than RUSCOs. These SVOC impacts are consistent with the field evidence of residual weathered petroleum impacts and were not found in other borings suggesting they may be limited in area. This open spill is not expected to require remediation by NYSDEC. The groundwater sample results for this location did not identify VOC impacts. While five total metals concentrations in groundwater were greater than their GWQC, the corresponding dissolved concentrations were significantly lower and less than the GWQC, and general non-detect. This suggests that the reported total concentrations were associated with sample turbidity and not actual groundwater quality.
- Analytical results for groundwater sample TGSP-4, near the south-central suspect UST anomaly reported five VOCs at concentrations greater than their respective GWQC. These concentrations are consistent with residual weathered petroleum impacts and were not found in other locations suggesting they may be limited in area. The soil sample analytical results from soil boring B-4 were non-detect or less than SCGs for VOCs, SVOCs, and metals.
- No field or analytical evidence of petroleum impacts was identified in the field or in soil and groundwater data from the three remaining borings: B-1/TGSP-1 from the northern Site corner near a former soil removal area and observed fill port, B-2/TGSP-2 near the suspect UST anomaly and former autobody repair shop in the east-central Site area, and B-5/TGSP-5 near a suspect UST anomaly and former USTs in the north-central Site area. The B-1 lead concentration in soil met the CUSCO, and the TGSP-1 and TGSP-5 concentrations of total lead

in groundwater were likely due to turbidity. As such, these results are not expected to require remediation by NYSDEC.

Based on the depth and limited extent of the identified soil and groundwater impacts, municipal water servicing the Site and surrounding area, there is no reasonable exposure to the limited impacts from Spill No. 2300878 under current Site conditions, and no further investigation nor remediation is considered necessary. LaBella recommends that a copy of this report be submitted to NYSDEC with a request to close Spill No. 2300878.

We also recommend that the anomalies suggestive of USTs be uncovered to determine the nature of the anomalies. If a UST is encountered, it should be properly removed and closed, which could be done as part of redevelopment. Site redevelopment activities that disturb the soil and/or groundwater should ensure that material is handled and disposed of properly. If different conditions are discovered during Site redevelopment (e.g., impacted soil, debris, tank, etc.), that material should also be properly handled and disposed of properly, with reporting to NYSDEC as warranted.

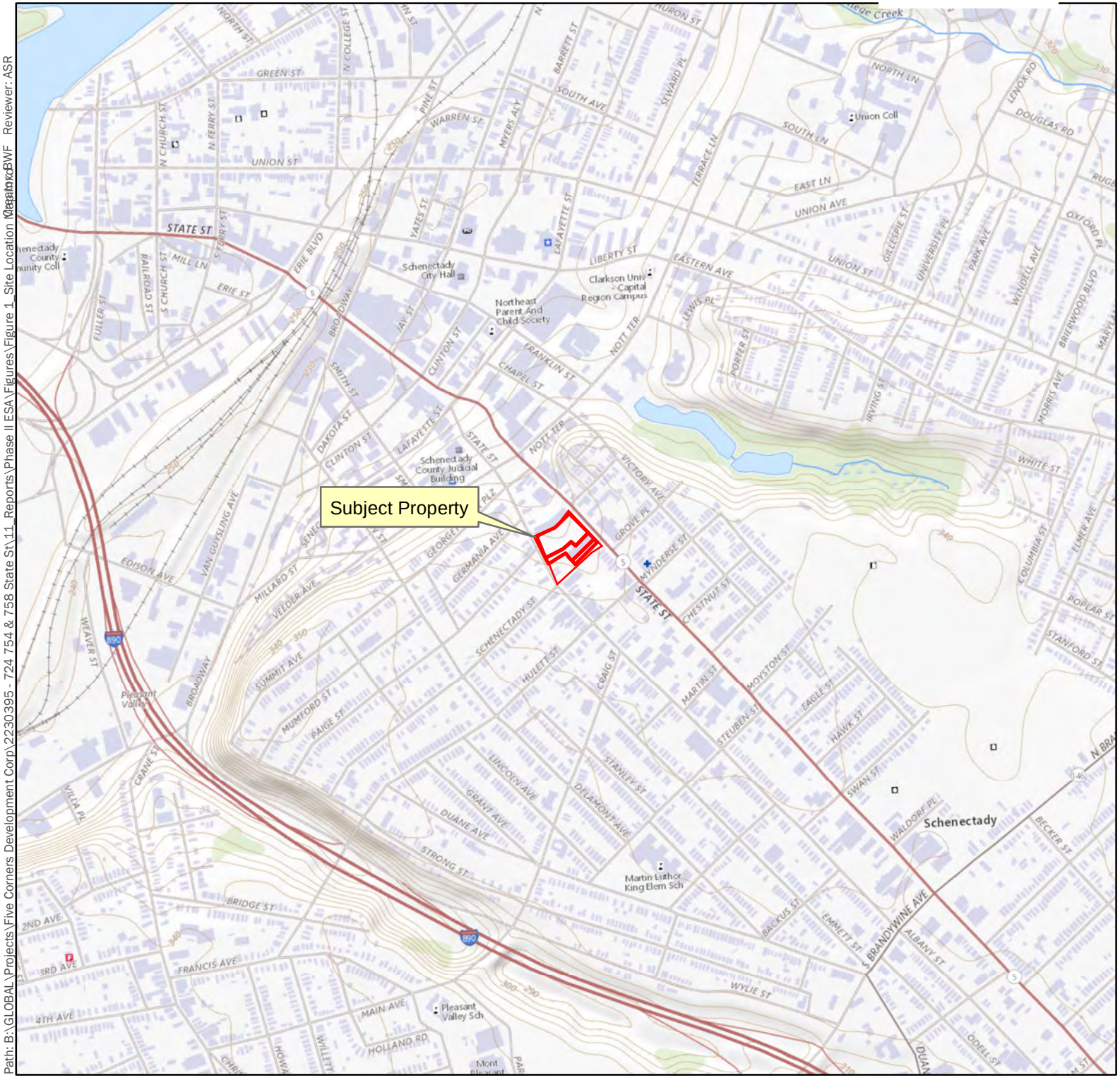
Respectfully submitted,

LaBella Associates



Arlette St. Romain
Brownfield Program Manager

Attachments:
- Figures
- SUE Field Results Summary
- Tables 1 and 2
- Boring Logs
- Analytical Lab Reports



Path: B:\GLOBAL\Projects\Five Corners Development Corp\2230395 - 724 754 & 758 State St\11_Reports\Phase II ESA\Figures\Figure 1_Site Location Map.mxd BWF Reviewer: ASR

LaBella
Powered by partnership.

Five Corners Development Corp.

742, 754, 756, and 758 State Street Schenectady, NY

N

0 500 1,000 Feet

LaBella Project No: 2230395
Date: May 2023

Site Location Map

FIGURE 1

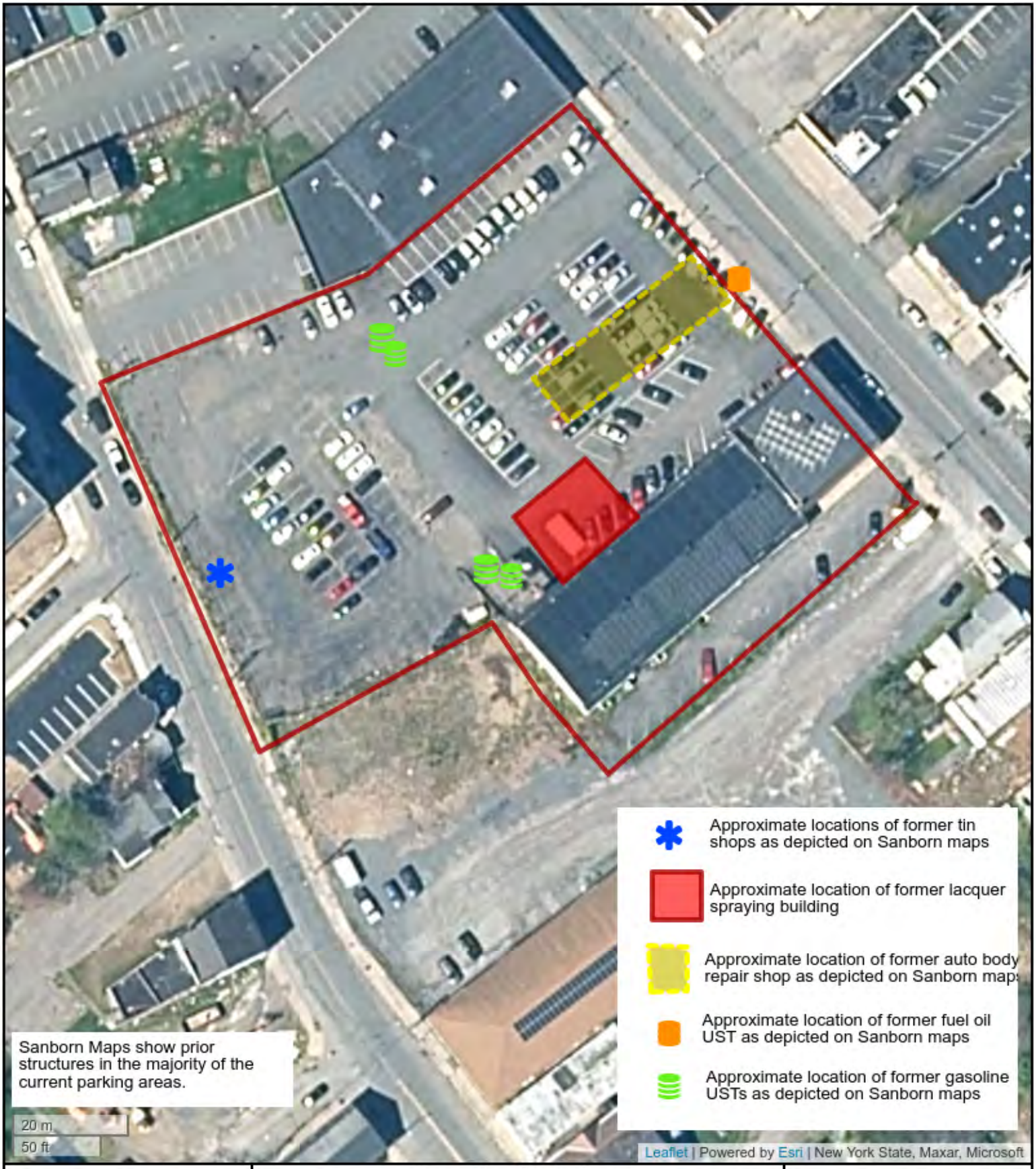
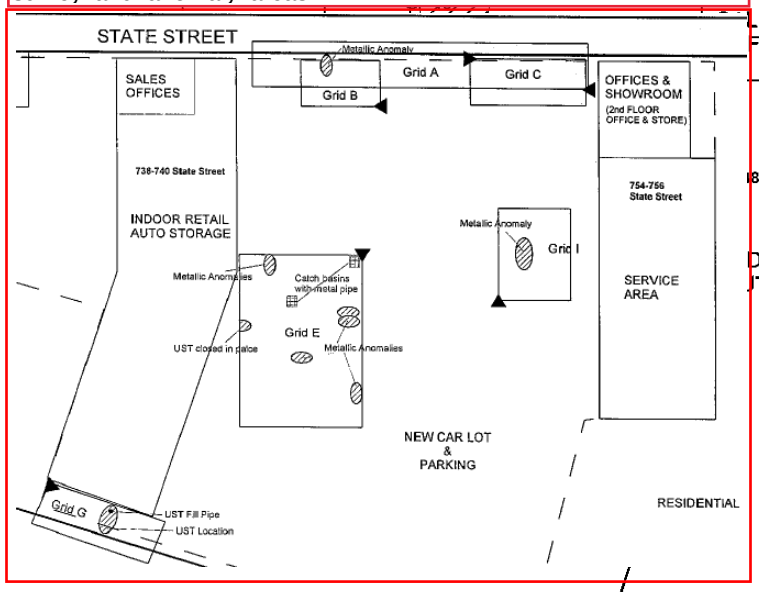


Figure 2A - Areas of Interest

742, 754-56, and 758 State Street
Schenectady, New York 12307
Project No. 2230395

LaBella
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Inset is from NETC's March 2003 report showing geophysical survey and anomaly areas



The former location of a 2,000-gallon UST removed in 1992 was not provided but the owner understands is was in the parking lot area.

LEGEND

- GP-2 — DPT Boring & Monitoring Well Location - January 2003
- GP-4 — DPT Boring Location - January 2003
- GP-12 — DPT Boring Location - June 2003
- UST and Soil Removal Area - June 2003

NOTES:

- Site map based on 1990 Sanborn Map.
- DPT well locations are aproximated with in +/-10.0 feet.
- DPT Boring Locations are not to scale.
- DPT soil borings and monitoring wells installed by NETC in Janaury of 2003.
- Do to soil removal services the DPT well have been removed.

common/netc projects/sites/mohawk honda/phase 2/maps/boringlocmap

NORTHEASTERN ENVIRONMENTAL TECHNOLOGIES CORP.
1476 Route 50, P.O. Box 2167, Ballston Spa, NY 12020
Phone: (518) 884-8545 Fax: (518) 884-9710 e-mail: jwink@attglobal.net

FIGURE 3: DPT Boring Location Map - June 2003
PROJECT: Mohawk Honda
728-756 State Street Schenectady, New York

Project # 02.08164	Scale: 1"=60.0'	Date 6/23/03

NETC report figure excerpt included as Figure 2B Areas of Interest for LaBella's 2023 Phase II ESA



Path: B:\GLOBAL\Projects\Five Corners Development Corp\2230395 - 724 754 & 758 State St\11_Reports\Phase II ESA\Figures\PIIESA Sample Location Map.mxd Date: 5/2/2023 Author: CWF Reviewer: ASR

LaBella
Powered by partnership.

Five Corners Development Corp.

742, 754, 756, and 758 State Street Schenectady, NY

N

0 30 60 Feet

Legend

- Soil Boring and TGSP
- Site Boundary
- UST and Soil Removal Area, 2003
- UST Anomaly
- Catch Basin

LaBella Project No: 2230395
Date: May 2023

Approximate Locations of Anomalies and Borings/TGSPs

FIGURE 3

Technician: Joe Federico

Site Location: 724-758 State St Schenectady

Project #: 2230395

Project Name: 5 Corners Dev'l

Date: 4/19/2023



Findings: GPR located evidence 3 possible USTs on site. They were marked out in white paint. Their dimensions, site photo's and GPR data screenshot are on the bottom of this page and following pages.

Utilities located in the project area were site lighting, and a gas line Electric feeding the building is via overhead wiring.

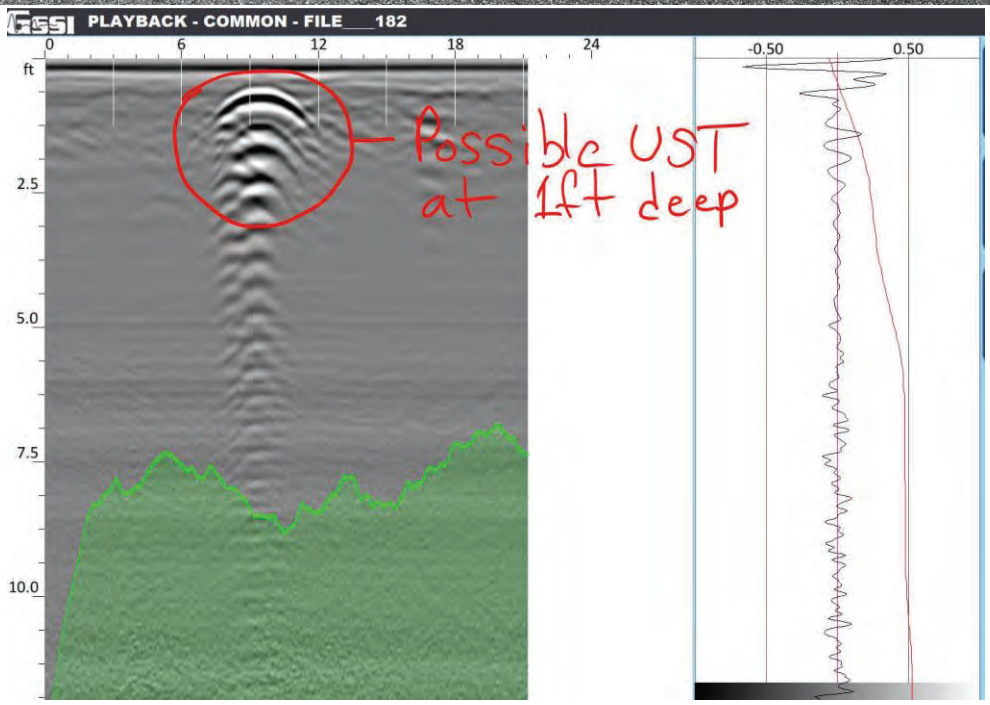
UST Dimensions:

Picture1: 12.67 ft N-S. 5.25 ft E-W. 2ft deep

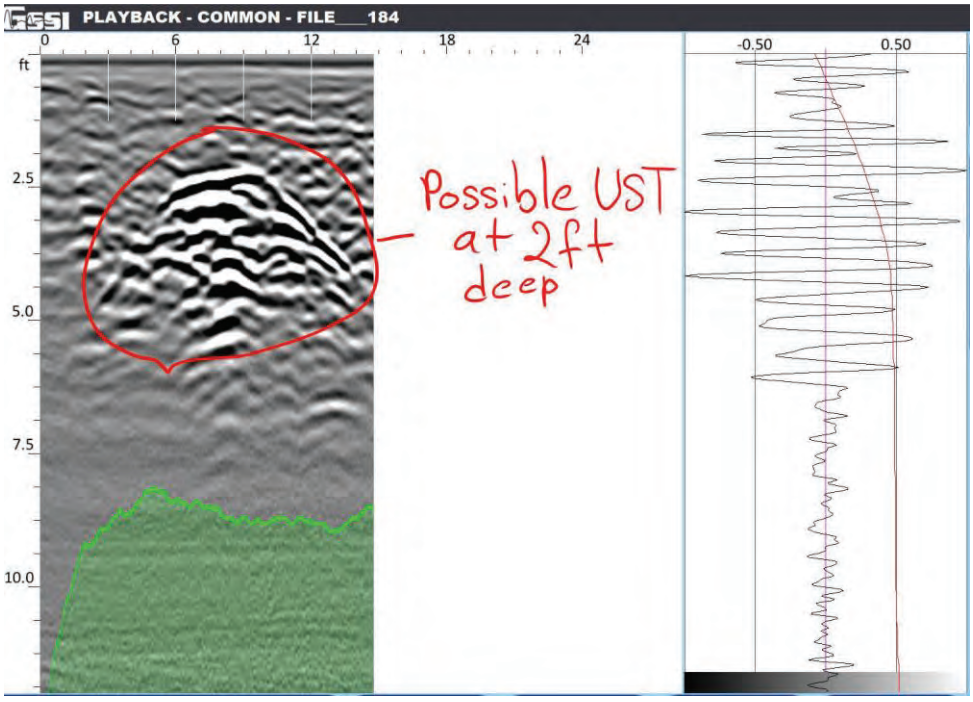
Picture 2: 8.67 ft N-S. 29.42 ft E-W. 2 ft deep

Picture 3: 17.61 ft N-S. 4.75 ft E-W

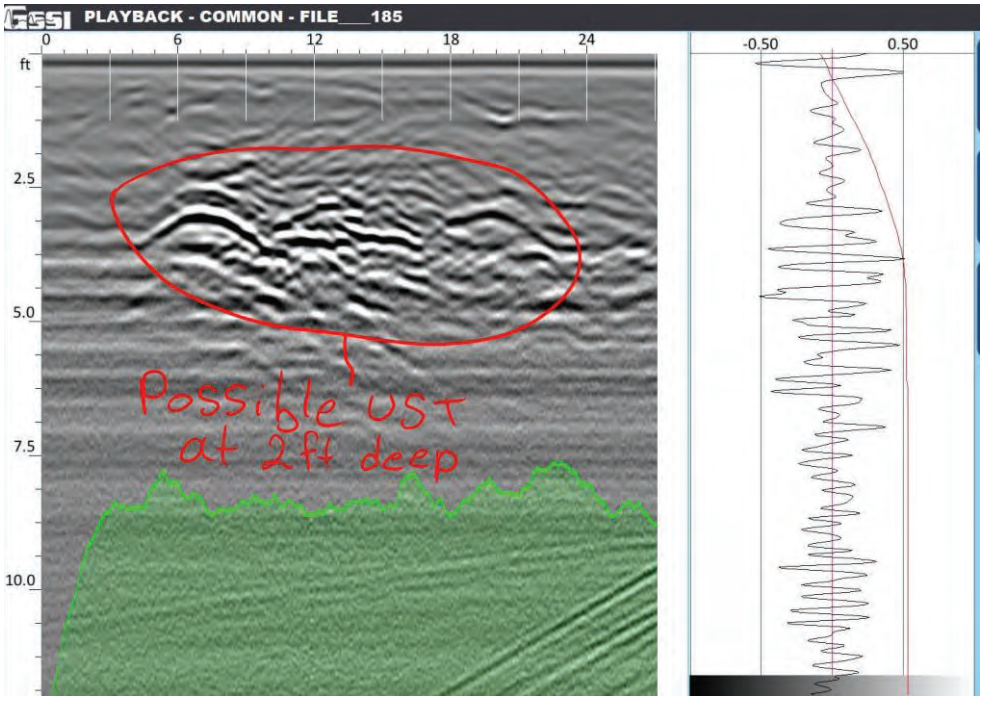

AUTOCARE CENTER


GSSI PLAYBACK - COMMON - FILE___182
0
6
12
18
24
ft
2.5
5.0
7.5
10.0
-0.50
0.50
Possible UST
at 1ft deep




PLAYBACK - COMMON - FILE___184
0
6
12
18
24
ft
2.5
5.0
7.5
10.0
-0.50
0.50
Possible UST
at 2ft
deep




GSSI PLAYBACK - COMMON - FILE___185
0
6
12
18
24
ft
2.5
5.0
7.5
10.0
Possible UST
at 2ft deep
-0.50
0.50

REPORT 2

Table 1
Soil Sample Laboratory Analytical Results Summary
742, 754, 756, and 758 State Street
Schenectady, New York
LaBella Project No. 2230395

Sample Location	NYSDEC Brownfield Cleanup Program 375-6 Soil Cleanup Objectives					Former Soil Removal Area (North Site Corner)	East-Central Near Suspect UST Anomaly and Fomer Autobody Repair Shop	Former Lacquer Spray Building Area	South-Central Near Suspect UST Anomaly	North-Central Near Suspect UST Anomaly and Former USTs
LaBella Sample ID (depth)	CP-51 Soil - Gas/Fuel Oil	Unrestricted Use	**Residential Use**	**Restricted-Residential Use**	***Commercial Use***	B-1(8-10ft)	B-2(8-10ft)	B-3(14-15ft)	B-4(10-12ft)	B-5(8-10ft)
Lab Sample ID						CN97322	CN97323	CN97324	CN97325	CN97326
Collection Date						5/2/2023	05/02/2023	05/02/2023	05/02/2023	05/02/2023
Compound						**Results**				
Metals, Total			mg/Kg					mg/Kg		
Arsenic	~	13	16	16	16	NT	2.66	4.82	NT	NT
Barium	~	350	350	400	400	NT	25.7	76.4	NT	NT
Cadmium	~	2.5	2.5	4.3	9.3	NT	0.73	1.11	NT	NT
Chromium	~	30	36	180	1500	NT	10	11.6	NT	NT
Lead	~	63	400	400	1000	**755**	8.63	198	17	49.1
Mercury	~	0.18	0.81	0.81	2.8	NT	ND	0.3	NT	NT
Selenium	~	3.9	36	180	1500	NT	ND	ND	NT	NT
Silver	~	2	36	180	1500	NT	ND	ND	NT	NT
Semi-volatile Organic Compounds-CP-51			mg/Kg					mg/Kg		
Acenaphthene	20	20	100	100	500	ND	ND	ND	ND	ND
Acenaphthylene	100	100	100	100	500	ND	ND	0.39	ND	ND
Anthracene	100	100	100	100	500	ND	ND	1.1	ND	ND
Benz(a)anthracene	1	1	1	1	5.6	ND	ND	**2.3**	ND	ND
Benzo(a)pyrene	1	1	1	1	1	ND	ND	**2.5**	ND	ND
Benzo(b)fluoranthene	1	1	1	1	5.6	0.3	ND	**2.5**	ND	ND
Benzo(ghi)perylene	100	100	100	100	500	ND	ND	1.8	ND	ND
Benzo(k)fluoranthene	0.8	0.8	1	3.9	56	ND	ND	0.88	ND	ND
Chrysene	1	1	1	3.9	56	ND	ND	**2.1**	ND	ND
Dibenz(a,h)anthracene	0.33	0.33	0.33	0.33	0.56	ND	ND	ND	ND	ND
Fluoranthene	100	100	100	100	500	0.39	ND	4.8	ND	ND
Fluorene	30	30	100	100	500	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	0.5	5.6	ND	ND	**1.7**	ND	ND
Naphthalene	12	12	100	100	500	ND	ND	ND	ND	ND
Phenanthrene	100	100	100	100	500	ND	ND	3.7	ND	ND
Pyrene	100	100	100	100	500	0.35	ND	4.1	ND	ND
Volatile Organic Compounds-CP-51			mg/Kg					mg/Kg		
1,2,4-Trimethylbenzene	3.6	3.6	47	52	190	ND	NT	NT	ND	ND
1,3,5-Trimethylbenzene	8.4	8.4	47	52	190	ND	NT	NT	ND	ND
Benzene	0.06	0.06	2.9	4.8	44	ND	NT	NT	ND	ND
Ethylbenzene	1	1	30	41	390	ND	NT	NT	ND	ND
Isopropylbenzene	2.3	~	~	~	~	ND	NT	NT	ND	ND
m&p-Xylene	~	~	~	~	~	ND	NT	NT	ND	ND
Methyl t-Butyl Ether (MTBE)	0.93	0.93	62	100	500	ND	NT	NT	ND	ND
n-Butylbenzene	12	12	100	100	500	ND	NT	NT	ND	ND
n-Propylbenzene	3.9	3.9	100	100	500	ND	NT	NT	ND	ND
Naphthalene	12	12	100	100	500	ND	NT	NT	ND	ND
o-Xylene	~	~	~	~	~	ND	NT	NT	ND	ND
p-Isopropyltoluene	10	~	~	~	~	ND	NT	NT	ND	ND
sec-Butylbenzene	11	11	100	100	500	ND	NT	NT	ND	ND
tert-Butylbenzene	5.9	5.9	100	100	500	ND	NT	NT	ND	ND
Toluene	0.7	0.7	100	100	500	ND	NT	NT	ND	ND
Total Xylenes	0.26	0.26	~	100	~	ND	NT	NT	ND	ND
Volatile Organic Compunds - TCL			mg/Kg					mg/Kg		
1,1,1,2-Tetrachloroethane	~	~	~	~	~	NT	ND	ND	NT	NT
1,1,1-Trichloroethane	~	0.68	100	100	500	NT	ND	ND	NT	NT
1,1,2,2-Tetrachloroethane	~	~	~	~	~	NT	ND	ND	NT	NT
1,1,2-Trichloroethane	~	~	~	~	~	NT	ND	ND	NT	NT
1,1-Dichloroethane	~	0.27	19	26	240	NT	ND	ND	NT	NT
1,1-Dichloroethene	~	0.33	100	100	500	NT	ND	ND	NT	NT
1,1-Dichloropropene	~	~	~	~	~	NT	ND	ND	NT	NT
1,2,3-Trichlorobenzene	~	~	~	~	~	NT	ND	ND	NT	NT
1,2,3-Trichloropropane	~	~	~	~	~	NT	ND	ND	NT	NT
1,2,4-Trichlorobenzene	~	~	~	~	~	NT	ND	ND	NT	NT
1,2,4-Trimethylbenzene	3.6	3.6	47	52	190	NT	ND	ND	NT	NT
1,2-Dibromo-3-chloropropane	~	~	~	~	~	NT	ND	ND	NT	NT
1,2-Dibromoethane	~	~	~	~	~	NT	ND	ND	NT	NT
1,2-Dichlorobenzene	~	1.1	100	100	500	NT	ND	ND	NT	NT
1,2-Dichloroethane	~	0.02	2.3	3.1	30	NT	ND	ND	NT	NT
1,2-Dichloropropane	~	~	~	~	~	NT	ND	ND	NT	NT

REPORT 2

Table 1
Soil Sample Laboratory Analytical Results Summary
742, 754, 756, and 758 State Street
Schenectady, New York
LaBella Project No. 2230395

Sample Location	NYSDEC Brownfield Cleanup Program 375-6 Soil Cleanup Objectives					Former Soil Removal Area (North Site Corner)	East-Central Near Suspect UST Anomaly and Fomer Autobody Repair Shop	Former Lacquer Spray Building Area	South-Central Near Suspect UST Anomaly	North-Central Near Suspect UST Anomaly and Former USTs
LaBella Sample ID (depth)						B-1(8-10ft)	B-2(8-10ft)	B-3(14-15ft)	B-4(10-12ft)	B-5(8-10ft)
Lab Sample ID	CP-51 Soil - Gas/Fuel Oil	Unrestricted Use	**Residential Use**	**Restricted-Residential Use**	***Commercial Use***	CN97322	CN97323	CN97324	CN97325	CN97326
Collection Date						5/2/2023	05/02/2023	05/02/2023	05/02/2023	05/02/2023
Compound						**Results**				
1,3,5-Trimethylbenzene	8.4	8.4	47	52	190	NT	ND	ND	NT	NT
1,3-Dichlorobenzene	~	2.4	17	49	280	NT	ND	ND	NT	NT
1,3-Dichloropropane	~	~	~	~	~	NT	ND	ND	NT	NT
1,4-Dichlorobenzene	~	1.8	9.8	13	130	NT	ND	ND	NT	NT
2,2-Dichloropropane	~	~	~	~	~	NT	ND	ND	NT	NT
2-Chlorotoluene	~	~	~	~	~	NT	ND	ND	NT	NT
2-Hexanone	~	~	~	~	~	NT	ND	ND	NT	NT
2-Isopropyltoluene	~	~	~	~	~	NT	ND	ND	NT	NT
4-Chlorotoluene	~	~	~	~	~	NT	ND	ND	NT	NT
4-Methyl-2-pentanone	~	~	~	~	~	NT	ND	ND	NT	NT
Acetone	~	0.05	100	100	500	NT	ND	ND	NT	NT
Acrylonitrile	~	~	~	~	~	NT	ND	ND	NT	NT
Benzene	0.06	0.06	2.9	4.8	44	NT	ND	ND	NT	NT
Bromobenzene	~	~	~	~	~	NT	ND	ND	NT	NT
Bromochloromethane	~	~	~	~	~	NT	ND	ND	NT	NT
Bromodichloromethane	~	~	~	~	~	NT	ND	ND	NT	NT
Bromoform	~	~	~	~	~	NT	ND	ND	NT	NT
Bromomethane	~	~	~	~	~	NT	ND	ND	NT	NT
Carbon Disulfide	~	~	~	~	~	NT	ND	ND	NT	NT
Carbon tetrachloride	~	0.76	1.4	2.4	22	NT	ND	ND	NT	NT
Chlorobenzene	~	1.1	100	100	500	NT	ND	ND	NT	NT
Chloroethane	~	~	~	~	~	NT	ND	ND	NT	NT
Chloroform	~	0.37	10	49	350	NT	ND	ND	NT	NT
Chloromethane	~	~	~	~	~	NT	ND	ND	NT	NT
cis-1,2-Dichloroethene	~	0.25	59	100	500	NT	ND	ND	NT	NT
cis-1,3-Dichloropropene	~	~	~	~	~	NT	ND	ND	NT	NT
Dibromochloromethane	~	~	~	~	~	NT	ND	ND	NT	NT
Dibromomethane	~	~	~	~	~	NT	ND	ND	NT	NT
Dichlorodifluoromethane	~	~	~	~	~	NT	ND	ND	NT	NT
Ethylbenzene	1	1	30	41	390	NT	ND	ND	NT	NT
Hexachlorobutadiene	~	~	~	~	~	NT	ND	ND	NT	NT
Isopropylbenzene	2.3	~	~	~	~	NT	ND	ND	NT	NT
m&p-Xylene	~	~	~	~	~	NT	ND	ND	NT	NT
Methyl Ethyl Ketone	~	0.12	100	100	500	NT	ND	ND	NT	NT
Methyl t-butyl ether (MTBE)	0.93	0.93	62	100	500	NT	ND	ND	NT	NT
Methylene chloride	~	0.05	51	100	500	NT	ND	ND	NT	NT
n-Butylbenzene	12	12	100	100	500	NT	ND	ND	NT	NT
n-Propylbenzene	3.9	3.9	100	100	500	NT	ND	ND	NT	NT
Naphthalene	12	12	100	100	500	NT	ND	ND	NT	NT
o-Xylene	~	~	~	~	~	NT	ND	ND	NT	NT
p-Isopropyltoluene	10	~	~	~	~	NT	ND	ND	NT	NT
sec-Butylbenzene	11	11	100	100	500	NT	ND	ND	NT	NT
Styrene	~	~	~	~	~	NT	ND	ND	NT	NT
tert-Butylbenzene	5.9	5.9	100	100	500	NT	ND	ND	NT	NT
Tetrachloroethene	~	1.3	5.5	19	150	NT	ND	ND	NT	NT
Tetrahydrofuran (THF)	~	~	~	~	~	NT	ND	ND	NT	NT
Toluene	0.7	0.7	100	100	500	NT	ND	ND	NT	NT
Total Xylenes	0.26	0.26	~	100	~	NT	ND	ND	NT	NT
trans-1,2-Dichloroethene	~	0.19	100	100	500	NT	ND	ND	NT	NT
trans-1,3-Dichloropropene	~	~	~	~	~	NT	ND	ND	NT	NT
trans-1,4-dichloro-2-butene	~	~	~	~	~	NT	ND	ND	NT	NT
Trichloroethene	~	0.47	10	21	200	NT	ND	ND	NT	NT
Trichlorofluoromethane	~	~	~	~	~	NT	ND	ND	NT	NT
Trichlorotrifluoroethane	~	~	~	~	~	NT	ND	ND	NT	NT
Vinyl chloride	~	0.02	0.21	0.9	13	NT	ND	ND	NT	NT

Notes:

Exceedances of NYSDEC Part 375-6 soil cleanup objectives (SCOs) are formatted consistent with the SCO column headers.
mg/kg= millgrams per kilogram or parts per million (ppm)
ND - analyte not detected at or above the level indicated.
NT - Indicates the analyte was not a target for this sample
~ - Indicates that no regulatory limit has been established for this analyte.

Table 2
Groundwater Sample Laboratory Analytical Results Summary
742, 754, 756, and 758 State Street
Schenectady, New York
LaBella Project No. 2230395

Sample Location	NYSDEC TOGS Standard and Guidance Values - GA	Former Soil Removal Area (North Site Corner)	East-Central Near Suspect UST Anomaly and Fomer Autobody Repair Shop	Former Lacquer Spray Building Area	South-Central Near Suspect UST Anomaly	North-Central Near Suspect UST Anomaly and Former USTs	QA/QC
LaBella Sample ID		TGSP-1	TGSP-2	TGSP-3	TGSP-4	TGSP-5	Trip Blank
Lab Sample ID		CN97327	CN97328	CN97329	CN97330	CN97331	CN97412
Collection Date		05/02/2023	05/02/2023	05/02/2023	05/02/2023	05/02/2023	05/02/2023
Matrix		GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
Compound		**Results**					
Metals, Total	ug/L			ug/L			
Arsenic	25	NT	11	**34**	NT	NT	NT
Barium	1000	NT	121	694	NT	NT	NT
Cadmium	5	NT	2	**7**	NT	NT	NT
Chromium	50	NT	32	**82**	NT	NT	NT
Lead	25	**1310**	17	**1870**	**522**	**1200**	NT
Mercury	0.7	NT	ND	**1.8**	NT	NT	NT
Selenium	10	NT	ND	ND	NT	NT	NT
Silver	50	NT	ND	ND	NT	NT	NT
Metals, Dissolved	ug/L			ug/L			
Arsenic (Dissolved)	25	NT	ND	ND	NT	NT	NT
Barium (Dissolved)	100	NT	33	68	NT	NT	NT
Cadmium (Dissolved)	5	NT	ND	ND	NT	NT	NT
Chromium (Dissolved)	50	NT	1	ND	NT	NT	NT
Lead (Dissolved)	25	ND	ND	ND	ND	ND	NT
Mercury (Dissolved)	0.7	NT	ND	ND	NT	NT	NT
Selenium (Dissolved)	10	NT	ND	ND	NT	NT	NT
Silver (Dissolved)	50	NT	ND	ND	NT	NT	NT
Volatile Organic Compund-CP-51	ug/L			ug/L			
1,2,4-Trimethylbenzene	5	ND	NT	NT	**200**	ND	ND
1,3,5-Trimethylbenzene	5	ND	NT	NT	ND	ND	ND
Benzene	1	ND	NT	NT	ND	ND	ND
Ethylbenzene	5	ND	NT	NT	ND	ND	ND
Isopropylbenzene	5	ND	NT	NT	**20**	ND	ND
m&p-Xylene	5	ND	NT	NT	ND	ND	ND
Methyl t-butyl ether (MTBE)	~	ND	NT	NT	ND	ND	ND
n-Butylbenzene	5	ND	NT	NT	**6.0**	ND	ND
n-Propylbenzene	5	ND	NT	NT	**47**	ND	ND
Naphthalene	10	ND	NT	NT	ND	ND	ND
o-Xylene	5	ND	NT	NT	ND	ND	ND
p-Isopropyltoluene	5	ND	NT	NT	ND	ND	ND
sec-Butylbenzene	5	ND	NT	NT	**6.6**	ND	ND
tert-Butylbenzene	5	ND	NT	NT	ND	ND	ND
Toluene	5	ND	NT	NT	ND	ND	ND
Total Xylenes	5	ND	NT	NT	ND	ND	ND
Volatile Organic Compunds - TCL	ug/L			ug/L			
1,1,1,2-Tetrachloroethane	5	NT	ND	ND	NT	NT	NT
1,1,1-Trichloroethane	5	NT	ND	ND	NT	NT	NT
1,1,2,2-Tetrachloroethane	5	NT	ND	ND	NT	NT	NT
1,1,2-Trichloroethane	1	NT	ND	ND	NT	NT	NT
1,1-Dichloroethane	5	NT	ND	ND	NT	NT	NT
1,1-Dichloroethene	5	NT	ND	ND	NT	NT	NT
1,1-Dichloropropene	5	NT	ND	ND	NT	NT	NT
1,2,3-Trichlorobenzene	~	NT	ND	ND	NT	NT	NT
1,2,3-Trichloropropane	0.04	NT	ND	ND	NT	NT	NT
1,2,4-Trichlorobenzene	~	NT	ND	ND	NT	NT	NT
1,2,4-Trimethylbenzene	5	NT	ND	ND	NT	NT	NT
1,2-Dibromo-3-chloropropane	0.04	NT	ND	ND	NT	NT	NT
1,2-Dibromoethane	0.0006	NT	ND	ND	NT	NT	NT
1,2-Dichlorobenzene	~	NT	ND	ND	NT	NT	NT
1,2-Dichloroethane	0.6	NT	ND	ND	NT	NT	NT
1,2-Dichloropropane	1	NT	ND	ND	NT	NT	NT
1,3,5-Trimethylbenzene	5	NT	ND	ND	NT	NT	NT
1,3-Dichlorobenzene	3	NT	ND	ND	NT	NT	NT
1,3-Dichloropropane	5	NT	ND	ND	NT	NT	NT
1,4-Dichlorobenzene	~	NT	ND	ND	NT	NT	NT
2,2-Dichloropropane	5	NT	ND	ND	NT	NT	NT
2-Chlorotoluene	5	NT	ND	ND	NT	NT	NT
2-Hexanone	50	NT	ND	ND	NT	NT	NT
2-Isopropyltoluene	5	NT	ND	ND	NT	NT	NT
4-Chlorotoluene	5	NT	ND	ND	NT	NT	NT
4-Methyl-2-pentanone	~	NT	ND	ND	NT	NT	NT

REPORT 2

Table 2
Groundwater Sample Laboratory Analytical Results Summary
742, 754, 756, and 758 State Street
Schenectady, New York
LaBella Project No. 2230395

Sample Location	NYSDEC TOGS Standard and Guidance Values - GA	Former Soil Removal Area (North Site Corner)	East-Central Near Suspect UST Anomaly and Fomer Autobody Repair Shop	Former Lacquer Spray Building Area	South-Central Near Suspect UST Anomaly	North-Central Near Suspect UST Anomaly and Former USTs	QA/QC
LaBella Sample ID		TGSP-1	TGSP-2	TGSP-3	TGSP-4	TGSP-5	Trip Blank
Lab Sample ID		CN97327	CN97328	CN97329	CN97330	CN97331	CN97412
Collection Date		05/02/2023	05/02/2023	05/02/2023	05/02/2023	05/02/2023	05/02/2023
Matrix		GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER	GROUND WATER
Compound		Results					
Acetone	50	NT	ND	ND	NT	NT	NT
Acrylonitrile	5	NT	ND	ND	NT	NT	NT
Benzene	1	NT	ND	ND	NT	NT	NT
Bromobenzene	5	NT	ND	ND	NT	NT	NT
Bromochloromethane	5	NT	ND	ND	NT	NT	NT
Bromodichloromethane	50	NT	ND	ND	NT	NT	NT
Bromoform	50	NT	ND	ND	NT	NT	NT
Bromomethane	5	NT	ND	ND	NT	NT	NT
Carbon Disulfide	~	NT	ND	ND	NT	NT	NT
Carbon tetrachloride	5	NT	ND	ND	NT	NT	NT
Chlorobenzene	5	NT	ND	ND	NT	NT	NT
Chloroethane	5	NT	ND	ND	NT	NT	NT
Chloroform	7	NT	ND	ND	NT	NT	NT
Chloromethane	5	NT	ND	ND	NT	NT	NT
cis-1,2-Dichloroethene	5	NT	ND	ND	NT	NT	NT
cis-1,3-Dichloropropene	0.4	NT	ND	ND	NT	NT	NT
Dibromochloromethane	50	NT	ND	ND	NT	NT	NT
Dibromomethane	5	NT	ND	ND	NT	NT	NT
Dichlorodifluoromethane	5	NT	ND	ND	NT	NT	NT
Ethylbenzene	5	NT	ND	ND	NT	NT	NT
Hexachlorobutadiene	0.5	NT	ND	ND	NT	NT	NT
Isopropylbenzene	5	NT	ND	ND	NT	NT	NT
m&p-Xylene	~	NT	ND	ND	NT	NT	NT
Methyl ethyl ketone	50	NT	ND	ND	NT	NT	NT
Methyl t-butyl ether (MTBE)	~	NT	ND	ND	NT	NT	NT
Methylene chloride	5	NT	ND	ND	NT	NT	NT
n-Butylbenzene	5	NT	ND	ND	NT	NT	NT
n-Propylbenzene	5	NT	ND	ND	NT	NT	NT
Naphthalene	10	NT	ND	ND	NT	NT	NT
o-Xylene	5	NT	ND	ND	NT	NT	NT
p-Isopropyltoluene	5	NT	ND	ND	NT	NT	NT
sec-Butylbenzene	5	NT	ND	ND	NT	NT	NT
Styrene	5	NT	ND	ND	NT	NT	NT
tert-Butylbenzene	5	NT	ND	ND	NT	NT	NT
Tetrachloroethene	5	NT	ND	ND	NT	NT	NT
Tetrahydrofuran (THF)	50	NT	ND	ND	NT	NT	NT
Toluene	5	NT	ND	ND	NT	NT	NT
Total Xylenes	5	NT	ND	ND	NT	NT	NT
trans-1,2-Dichloroethene	5	NT	ND	ND	NT	NT	NT
trans-1,3-Dichloropropene	0.4	NT	ND	ND	NT	NT	NT
trans-1,4-dichloro-2-butene	5	NT	ND	ND	NT	NT	NT
Trichloroethene	5	NT	ND	ND	NT	NT	NT
Trichlorofluoromethane	5	NT	ND	ND	NT	NT	NT
Trichlorotrifluoroethane	5	NT	ND	ND	NT	NT	NT
Vinyl chloride	2	NT	ND	ND	NT	NT	NT

Notes:

Exceedences of NYSDEC TOGS Standard and Guidance Values are bold and highlighted.

ug/L= micrograms per liter or parts per billion (ppb)

ND - analyte not detected at or above the level indicated.

NT - Indicates the analyte was not a target for this sample

~ - Indicates that no regulatory limit has been established for this analyte.

MONITORING WELL / BORING NO. **B1/TGSP-1**

Site Name: 742,754,756,758 State Street | Date Drilled: May 2, 2023

Location: 756 State Street, Schenectady, NY | Drilling Co.: Aztech Environmental Technologies

Client: Five Corners Development Corp | Driller: Jeff Morgan

Phone No.: 518-885-5383 | Logged by: Ben Strickland

Drilling Method: Geoprobe 3200 (Dia): 2.0" | Sampling Method: Split Spoon/Casing (Dia): 4.0"

Drilled TD: 15' (Dia): 2.0" | Sampled TD: 15' (Dia): 2.0"

Well TD: 15' - Temp Wells (Dia): 1.0" | Well Type: Monitoring

Screen Interval: 15'-5.0' | Slot Size: 0.010 Slot | Diameter: 1.0"

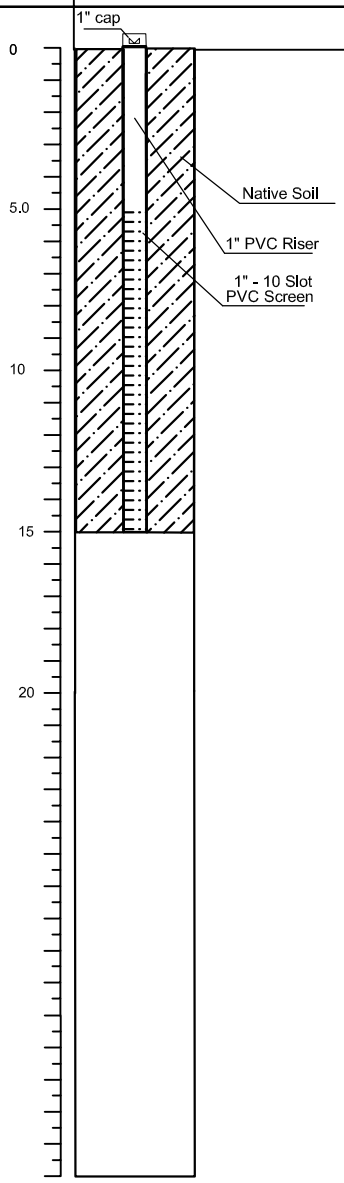
Cased Interval: 5'-+5' | Type: Sch 40 PVC | Diameter: 1.0"

Sand Pack Interval: N/A | Type: N/A | Wellhead Prot: N/A

Bentonite Seal Interval: N/A | Type: N/A | Grouted Interval: NA

LaBella Powered by partnership.

Notes:



Depth (Feet)	Recovery;	PID (ppm):	Description / Soil Classification
	S-1: 0 - 2.0' Rec: 0.6'/2.0'	<1.0	0'-2.0' Asphalt and fill
	S-2: 2.0' - 4.0' Rec: 0.5'/2.0'	< 1.0	2.0'-8.0' Moist, brown, fine SAND, no odor
	S-3: 4.0' - 6.0' Rec: 0.3'/2.0'	< 1.0	
	S-4: 6.0' - 8.0' Rec: 0.3'/2.0'	< 1.0	▼ Groundwater encountered at ~8.0'
	S-5: 8.0' - 10' Rec: 2.0'/2.0'	< 1.0	8.0'-13.5' Moist, brown, fine SAND, some Silt no odor
	S-6: 10' - 12' Rec: 2.0'/2.0'	<1.0	At 9.0' - Increase Silt
	S-7: 12' - 14' Rec: 1.2'/2.0'	<1.0	
	S-8: 14' - 15' Rec: 1.0'/2.0'	<1.0	13.5'-15' Moist, brown, fine SAND, Some Silt, some Clay, no odor
			At 14' - Increase Clay
			End boring at 15'

MONITORING WELL / BORING NO. **B2/TGSP-2**

Site Name: 742,754,756,758 State Street | Date Drilled: May 2, 2023

Location: 756 State Street, Schenectady, NY | Drilling Co.: Aztech Environmental Technologies

Client: Five Corners Development Corp | Driller: Jeff Morgan

Phone No.: 518-885-5383 | Logged by: Ben Strickland

Drilling Method: Geoprobe 3200 (Dia): 2.0" | Sampling Method: Split Spoon/Casing (Dia): 4.0"

Drilled TD: 17' (Dia): 2.0" | Sampled TD: 17' (Dia): 2.0"

Well TD: 17' - Temp Wells (Dia): 1.0" | Well Type: Monitoring

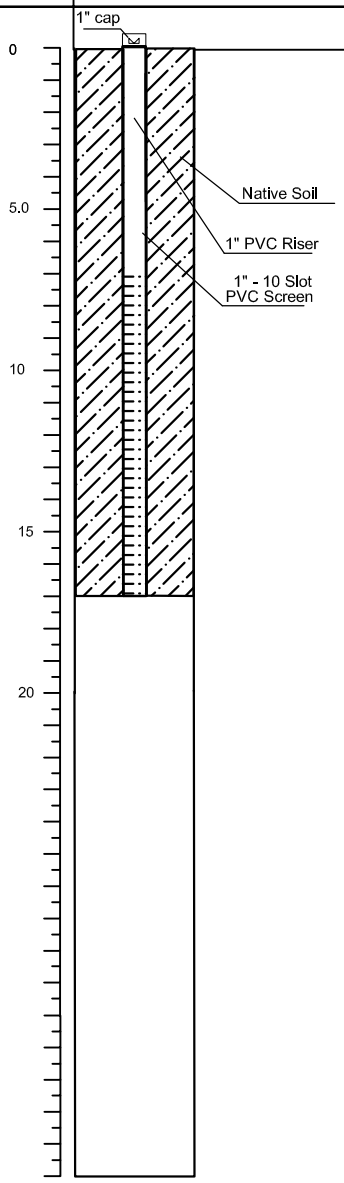
Screen Interval: 17'-7.0' | Slot Size: 0.010 Slot | Diameter: 1.0"

Cased Interval: 7'-+3' | Type: Sch 40 PVC | Diameter: 1.0"

Sand Pack Interval: N/A | Type: N/A | Wellhead Prot: N/A

Bentonite Seal Interval: N/A | Type: N/A | Grouted Interval: NA

Notes:



Depth (Feet)	Recovery;	PID (ppm):	Description / Soil Classification
	S-1: 0 - 2.0' Rec: 1.0'/2.0'	<1.0	0'-0.5' Asphalt and fill 0.5-2.0' Fill
	S-2: 2.0' - 4.0' Rec: 0.5'/2.0'	< 1.0	2.0'-8.0' Moist, brown, fine SAND, no odor At 4.0' - Construction Fill - Brick
	S-3: 4.0' - 6.0' Rec: 0.3'/2.0'	< 1.0	
	S-4: 6.0' - 8.0' Rec: 0.17'/2.0'	< 1.0	▼ Groundwater encountered at ~8.0'
	S-5: 8.0' - 10' Rec: 1.0'/2.0'	< 1.0	8.0'-17' Moist, brown, fine SAND, some Silt, trace Clay, no odor
	S-6: 10' - 12' Rec: 0.67'/2.0'	<1.0	
	S-7: 12' - 14' Rec: 2.0'/2.0'	<1.0	At 13.5' - Increase Silt
	S-8: 14' - 16' Rec: 2.0'/2.0'	<1.0	At 15' - Increase Clay
	S-9: 16' - 17' Rec: 1.0'/2.0'	<1.0	
			End boring at 17'

MONITORING WELL / BORING NO. **B3/TGSP-3**

Site Name: 742,754,756,758 State Street | Date Drilled: May 2, 2023

Location: 756 State Street, Schenectady, NY | Drilling Co.: Aztech Environmental Technologies

Client: Five Corners Development Corp | Driller: Jeff Morgan

Phone No.: 518-885-5383 | Logged by: Ben Strickland

Drilling Method: Geoprobe 3200 (Dia): 2.0" | Sampling Method: Split Spoon/Casing (Dia): 4.0"

Drilled TD: 15' (Dia): 2.0" | Sampled TD: 15' (Dia): 2.0"

Well TD: 15' - Temp Wells (Dia): 1.0" | Well Type: Monitoring

Screen Interval: 15'-5.0' | Slot Size: 0.010 Slot | Diameter: 1.0"

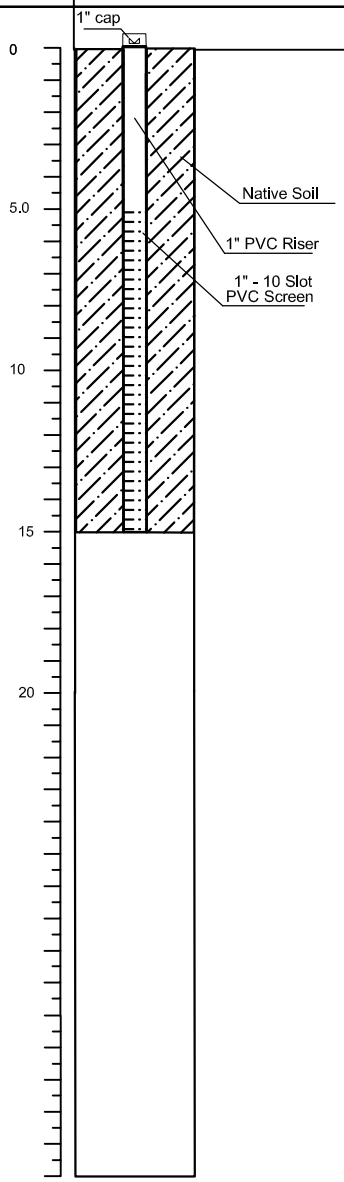
Cased Interval: 5'-+5' | Type: Sch 40 PVC | Diameter: 1.0"

Sand Pack Interval: N/A | Type: N/A | Wellhead Prot: N/A

Bentonite Seal Interval: N/A | Type: N/A | Grouted Interval: NA

LaBella Powered by partnership.

Notes:



Depth (Feet)	Recovery;	PID (ppm):	Description / Soil Classification
	S-1: 0 - 2.0' Rec: 1.0'/2.0'	<1.0	0'-4.0' Asphalt and fill
	S-2: 2.0' - 4.0' Rec: 0.5'/2.0'	< 1.0	
	S-3: 4.0' - 6.0' Rec: 0.67'/2.0'	< 1.0	2.0'-15' Moist, brown, fine SAND, trace Silt, no odor
	S-4: 6.0' - 8.0' Rec: 0.83'/2.0'	< 1.0	
	S-5: 8.0' - 10' Rec: 0.58'/2.0'	< 1.0	At 9.0' - Brick chunks
	S-6: 10' - 12' Rec: 0.83'/2.0'	<1.0	At 11' - Increased Silt
	S-7: 12' - 14' Rec: 0.67'/2.0'	<1.0	
	S-8: 14' - 15' Rec: 1.17'/2.0'	<1.0	
			End boring at 15'

MONITORING WELL / BORING NO. **B4/TGSP-4**

Site Name: 742,754,756,758 State Street | Date Drilled: May 2, 2023

Location: 756 State Street, Schenectady, NY | Drilling Co.: Aztech Environmental Technologies

Client: Five Corners Development Corp | Driller: Jeff Morgan

Phone No.: 518-885-5383 | Logged by: Ben Strickland

Drilling Method: Geoprobe 3200 (Dia): 2.0" | Sampling Method: Split Spoon/Casing (Dia): 4.0"

Drilled TD: 15' (Dia): 2.0" | Sampled TD: 15' (Dia): 2.0"

Well TD: 15' - Temp Wells (Dia): 1.0" | Well Type: Monitoring

Screen Interval: 15'-5.0' | Slot Size: 0.010 Slot | Diameter: 1.0"

Cased Interval: 5'-+5' | Type: Sch 40 PVC | Diameter: 1.0"

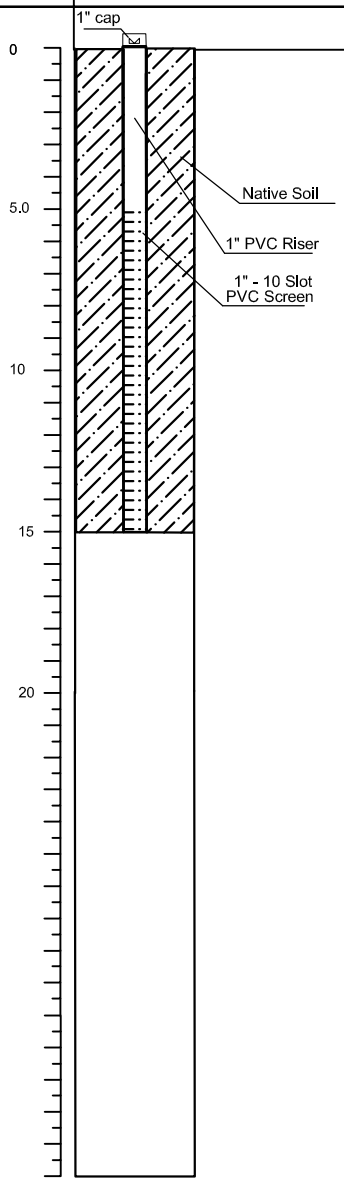
Sand Pack Interval: N/A | Type: N/A | Wellhead Prot: N/A

Bentonite Seal Interval: N/A | Type: N/A | Grouted Interval: NA

LaBella Powered by partnership.

Notes:

Location offset 5' north due to obstruction at original location at ~6" below grade



Depth (Feet)	Recovery;	PID (ppm):	Description / Soil Classification
	S-1: 0 - 2.0' Rec: 0.83'/2.0'	<1.0	0'-2.0' Concrete and fill
	S-2: 2.0' - 4.0' Rec: 0.67'/2.0'	< 1.0	2.0'-9.5' Moist, brown, fine SAND, trace Silt no odor
	S-3: 4.0' - 6.0' Rec: 1.5'/2.0'	< 1.0	
	S-4: 6.0' - 8.0' Rec:1.5'/2.0'	< 1.0	
	S-5: 8.0' - 10' Rec: 1.0'/2.0'	3.1	At 8.0' - Increase Silt
	S-6: 10' - 12' Rec: 1.0'/2.0'	2.7	9.5'-14' Moist, black, fine SAND, some Silt, Petroleum odor
	S-7: 12' - 14' Rec: 1.75'/2.0'	2.0	▼ Groundwater at ~12'
	S-8: 14' - 15' Rec: 1.0'/2.0'	2.1	14'-15' Moist, black, fine SAND, some Silt, little Clay, Petroleum odor
			End boring at 15'

MONITORING WELL / BORING NO. **B5/TGSP-5**

Site Name: 742,754,756,758 State Street | Date Drilled: May 2, 2023

Location: 756 State Street, Schenectady, NY | Drilling Co.: Aztech Environmental Technologies

Client: Five Corners Development Corp | Driller: Jeff Morgan

Phone No.: 518-885-5383 | Logged by: Ben Strickland

Drilling Method: Geoprobe 3200 (Dia): 2.0" | Sampling Method: Split Spoon/Casing (Dia): 4.0"

Drilled TD: 15' (Dia): 2.0" | Sampled TD: 15' (Dia): 2.0"

Well TD: 15' - Temp Wells (Dia): 1.0" | Well Type: Monitoring

Screen Interval: 15'-5.0' | Slot Size: 0.010 Slot | Diameter: 1.0"

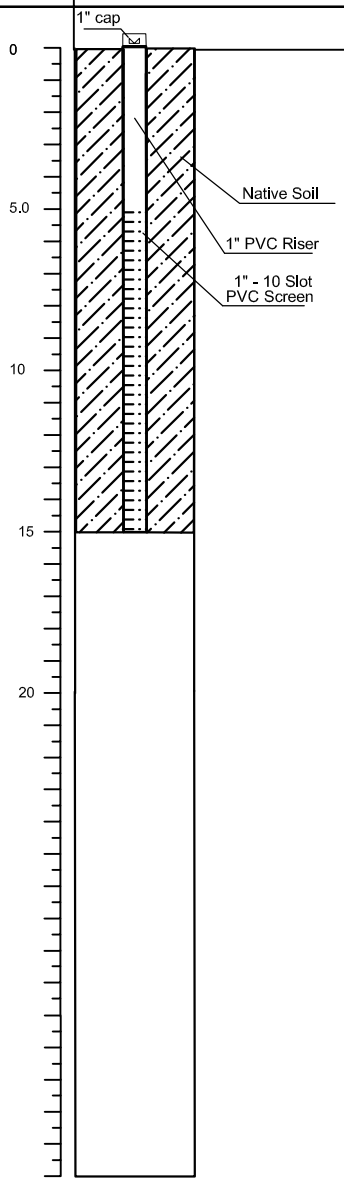
Cased Interval: 5'-+5' | Type: Sch 40 PVC | Diameter: 1.0"

Sand Pack Interval: N/A | Type: N/A | Wellhead Prot: N/A

Bentonite Seal Interval: N/A | Type: N/A | Grouted Interval: NA

LaBella Powered by partnership.

Notes:



Depth (Feet)	Recovery;	PID (ppm):	Description / Soil Classification
	S-1: 0 - 2.0' Rec: 1.16'/2.0'	<1.0	0'-2.0' Asphalt and fill
	S-2: 2.0' - 4.0' Rec: 1.33'/2.0'	< 1.0	2.0'-9.0' Moist, brown, fine SAND, trace Silt no odor
	S-3: 4.0' - 6.0' Rec: 1.33'/2.0'	< 1.0	
	S-4: 6.0' - 8.0' Rec: 1.25'/2.0'	< 1.0	
	S-5: 8.0' - 10' Rec: 1.16'/2.0'	< 1.0	▼ Groundwater encountered at ~9.0' At 9.0' - Increase Silt
	S-6: 10' - 12' Rec: 2.0'/2.0'	<1.0	
	S-7: 12' - 14' Rec: 1.5'/2.0'	<1.0	
	S-8: 14' - 15' Rec: 1.0'/2.0'	<1.0	13.5'-15' Moist, brown, fine SAND, Some Silt, some Clay, no odor At 14' - Increase Clay
			End boring at 15'

PHOENIX
Environmental Laboratories, Inc.

Tuesday, May 16, 2023

Attn: Arlette St. Romain
Labella Associates DPC
5 McCrea Hill Rd.,
Ballston Spa, NY 12020

Project ID:
SDG ID: GCN97322
Sample ID#s: CN97322 - CN97326

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

May 16, 2023

SDG I.D.: GCN97322

CN97326 - The analyst requested a Phoenix prepared low level

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Sample Id Cross Reference

May 16, 2023

SDG I.D.: GCN97322

Project ID:

Client Id	Lab Id	Matrix
B1 8-10	CN97322	SOIL
B2 8-10	CN97323	SOIL
B3 14-15	CN97324	SOIL
B4 10-12	CN97325	SOIL
B5 8-10	CN97326	SOIL

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 16, 2023

FOR: Attn: Arlette St. Romain
Labella Associates DPC
5 McCrea Hill Rd.,
Ballston Spa, NY 12020

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/02/23	9:30
Location Code:	LABELLA	Received by:	SR1	05/03/23	17:19
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCN97322
Phoenix ID: CN97322

Project ID:
Client ID: B1 8-10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	755	3.7	mg/Kg	10	05/12/23	TH	SW6010D
Percent Solid	82		%		05/03/23	CV	SW846-%Solid
Soil Extraction for SVOA PAH	Completed				05/10/23	B/MO/F	SW3546
Total Metals Digest	Completed				05/04/23	J/AG	SW3050B
Volatiles- STARS/CP-51							
1,2,4-Trimethylbenzene	ND	0.93	ug/Kg	1	05/06/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.93	ug/Kg	1	05/06/23	JLI	SW8260C
Benzene	ND	1.9	ug/Kg	1	05/06/23	JLI	SW8260C
Ethylbenzene	ND	1.9	ug/Kg	1	05/06/23	JLI	SW8260C
Isopropylbenzene	ND	0.93	ug/Kg	1	05/06/23	JLI	SW8260C
m&p-Xylene	ND	1.9	ug/Kg	1	05/06/23	JLI	SW8260C
Methyl t-Butyl Ether (MTBE)	ND	0.93	ug/Kg	1	05/06/23	JLI	SW8260C
Naphthalene	ND	0.93	ug/Kg	1	05/06/23	JLI	SW8260C
n-Butylbenzene	ND	0.93	ug/Kg	1	05/06/23	JLI	SW8260C
n-Propylbenzene	ND	0.93	ug/Kg	1	05/06/23	JLI	SW8260C
o-Xylene	ND	1.9	ug/Kg	1	05/06/23	JLI	SW8260C
p-Isopropyltoluene	ND	0.93	ug/Kg	1	05/06/23	JLI	SW8260C
sec-Butylbenzene	ND	0.93	ug/Kg	1	05/06/23	JLI	SW8260C
tert-Butylbenzene	ND	0.93	ug/Kg	1	05/06/23	JLI	SW8260C
Toluene	ND	1.9	ug/Kg	1	05/06/23	JLI	SW8260C
Total Xylenes	ND	1.9	ug/Kg	1	05/06/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-Dichlorobenzene-d4	98		%	1	05/06/23	JLI	70 - 130 %
% Bromofluorobenzene	81		%	1	05/06/23	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	05/06/23	JLI	70 - 130 %
% Toluene-d8	94		%	1	05/06/23	JLI	70 - 130 %

Project ID:
Client ID: B1 8-10

Phoenix I.D.: CN97322

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Semivolatiles-STARS/CP-51							
Acenaphthene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Anthracene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(b)fluoranthene	300	280	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Chrysene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Fluoranthene	390	280	ug/Kg	1	05/11/23	KCA	SW8270D
Fluorene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Naphthalene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Phenanthrene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Pyrene	350	280	ug/Kg	1	05/11/23	KCA	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	62		%	1	05/11/23	KCA	30 - 130 %
% Nitrobenzene-d5	71		%	1	05/11/23	KCA	30 - 130 %
% Terphenyl-d14	65		%	1	05/11/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
May 16, 2023
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 16, 2023

FOR: Attn: Arlette St. Romain
Labella Associates DPC
5 McCrea Hill Rd.,
Ballston Spa, NY 12020

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/02/23	10:20
Location Code:	LABELLA	Received by:	SR1	05/03/23	17:19
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCN97322
Phoenix ID: CN97323

Project ID:
Client ID: B2 8-10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.39	0.39	mg/Kg	1	05/11/23	TH	SW6010D	
Arsenic	2.66	0.77	mg/Kg	1	05/11/23	TH	SW6010D	
Barium	25.7	0.39	mg/Kg	1	05/11/23	TH	SW6010D	
Cadmium	0.73	0.39	mg/Kg	1	05/11/23	TH	SW6010D	
Chromium	10.0	0.39	mg/Kg	1	05/11/23	TH	SW6010D	
Mercury	< 0.03	0.03	mg/Kg	2	05/04/23	PM	SW7471B	
Lead	8.63	0.39	mg/Kg	1	05/11/23	TH	SW6010D	
Selenium	< 1.5	1.5	mg/Kg	1	05/11/23	TH	SW6010D	
Percent Solid	80		%		05/03/23	CV	SW846-%Solid	
Field Extraction	Completed				05/02/23		SW5035A	1
Mercury Digestion	Completed				05/04/23	ZT/ZT	SW7471B	
Soil Extraction for SVOA PAH	Completed				05/10/23	B/MO/F	SW3546	
Total Metals Digest	Completed				05/04/23	J/AG	SW3050B	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
1,1,1-Trichloroethane	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
1,1,2-Trichloroethane	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
1,1-Dichloroethane	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
1,1-Dichloroethene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
1,1-Dichloropropene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
1,2,3-Trichloropropane	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	

Project ID:
Client ID: B2 8-10

Phoenix I.D.: CN97323

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,2-Dibromoethane	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
1,2-Dichlorobenzene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
1,2-Dichloroethane	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
1,2-Dichloropropane	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
1,3-Dichlorobenzene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
1,3-Dichloropropane	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
1,4-Dichlorobenzene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
2,2-Dichloropropane	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
2-Chlorotoluene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
2-Hexanone	ND	28	ug/Kg	1	05/06/23	JLI	SW8260C	
2-Isopropyltoluene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	1
4-Chlorotoluene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
4-Methyl-2-pentanone	ND	28	ug/Kg	1	05/06/23	JLI	SW8260C	
Acetone	ND	28	ug/Kg	1	05/06/23	JLI	SW8260C	
Acrylonitrile	ND	11	ug/Kg	1	05/06/23	JLI	SW8260C	
Benzene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
Bromobenzene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
Bromochloromethane	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
Bromodichloromethane	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
Bromoform	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
Bromomethane	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
Carbon Disulfide	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
Carbon tetrachloride	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
Chlorobenzene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
Chloroethane	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
Chloroform	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
Chloromethane	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
Dibromochloromethane	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
Dibromomethane	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
Dichlorodifluoromethane	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
Ethylbenzene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
Hexachlorobutadiene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
Isopropylbenzene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
m&p-Xylene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
Methyl Ethyl Ketone	ND	28	ug/Kg	1	05/06/23	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/06/23	JLI	SW8260C	
Methylene chloride	ND	11	ug/Kg	1	05/06/23	JLI	SW8260C	
Naphthalene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
n-Butylbenzene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
n-Propylbenzene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
o-Xylene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
p-Isopropyltoluene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
sec-Butylbenzene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
Styrene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
tert-Butylbenzene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	
Tetrachloroethene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C	

Project ID:
Client ID: B2 8-10

Phoenix I.D.: CN97323

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/06/23	JLI	SW8260C
Toluene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C
Total Xylenes	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/06/23	JLI	SW8260C
Trichloroethene	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C
Vinyl chloride	ND	5.6	ug/Kg	1	05/06/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	05/06/23	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	05/06/23	JLI	70 - 130 %
% Dibromofluoromethane	96		%	1	05/06/23	JLI	70 - 130 %
% Toluene-d8	95		%	1	05/06/23	JLI	70 - 130 %

Semivolatiles-STARS/CP-51

Acenaphthene	ND	290	ug/Kg	1	05/11/23	KCA	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	05/11/23	KCA	SW8270D
Anthracene	ND	290	ug/Kg	1	05/11/23	KCA	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	05/11/23	KCA	SW8270D
Chrysene	ND	290	ug/Kg	1	05/11/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	05/11/23	KCA	SW8270D
Fluoranthene	ND	290	ug/Kg	1	05/11/23	KCA	SW8270D
Fluorene	ND	290	ug/Kg	1	05/11/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	05/11/23	KCA	SW8270D
Naphthalene	ND	290	ug/Kg	1	05/11/23	KCA	SW8270D
Phenanthrene	ND	290	ug/Kg	1	05/11/23	KCA	SW8270D
Pyrene	ND	290	ug/Kg	1	05/11/23	KCA	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	58		%	1	05/11/23	KCA	30 - 130 %
% Nitrobenzene-d5	58		%	1	05/11/23	KCA	30 - 130 %
% Terphenyl-d14	52		%	1	05/11/23	KCA	30 - 130 %

Project ID:
Client ID: B2 8-10

Phoenix I.D.: CN97323

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director
May 16, 2023
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 16, 2023

FOR: Attn: Arlette St. Romain
Labella Associates DPC
5 McCrea Hill Rd.,
Ballston Spa, NY 12020

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/02/23	11:30
Location Code:	LABELLA	Received by:	SR1	05/03/23	17:19
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCN97322
Phoenix ID: CN97324

Project ID:
Client ID: B3 14-15

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.40	0.40	mg/Kg	1	05/11/23	TH	SW6010D	
Arsenic	4.82	0.80	mg/Kg	1	05/11/23	TH	SW6010D	
Barium	76.4	0.40	mg/Kg	1	05/11/23	TH	SW6010D	
Cadmium	1.11	0.40	mg/Kg	1	05/11/23	TH	SW6010D	
Chromium	11.6	0.40	mg/Kg	1	05/11/23	TH	SW6010D	
Mercury	0.30	0.04	mg/Kg	2	05/04/23	PM	SW7471B	
Lead	198	4.0	mg/Kg	10	05/12/23	TH	SW6010D	
Selenium	< 1.6	1.6	mg/Kg	1	05/11/23	TH	SW6010D	
Percent Solid	75		%		05/03/23	CV	SW846-%Solid	
Field Extraction	Completed				05/02/23		SW5035A	1
Mercury Digestion	Completed				05/04/23	ZT/ZT	SW7471B	
Soil Extraction for SVOA PAH	Completed				05/10/23	B/MO/F	SW3546	
Total Metals Digest	Completed				05/04/23	J/AG	SW3050B	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
1,1,1-Trichloroethane	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
1,1,2,2-Tetrachloroethane	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
1,1,2-Trichloroethane	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
1,1-Dichloroethane	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
1,1-Dichloroethene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
1,1-Dichloropropene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
1,2,3-Trichlorobenzene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
1,2,3-Trichloropropane	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
1,2,4-Trichlorobenzene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
1,2,4-Trimethylbenzene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
1,2-Dibromo-3-chloropropane	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	

Project ID:
Client ID: B3 14-15

Phoenix I.D.: CN97324

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,2-Dibromoethane	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
1,2-Dichlorobenzene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
1,2-Dichloroethane	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
1,2-Dichloropropane	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
1,3,5-Trimethylbenzene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
1,3-Dichlorobenzene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
1,3-Dichloropropane	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
1,4-Dichlorobenzene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
2,2-Dichloropropane	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
2-Chlorotoluene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
2-Hexanone	ND	26	ug/Kg	1	05/06/23	JLI	SW8260C	
2-Isopropyltoluene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	1
4-Chlorotoluene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
4-Methyl-2-pentanone	ND	26	ug/Kg	1	05/06/23	JLI	SW8260C	
Acetone	ND	26	ug/Kg	1	05/06/23	JLI	SW8260C	
Acrylonitrile	ND	10	ug/Kg	1	05/06/23	JLI	SW8260C	
Benzene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
Bromobenzene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
Bromochloromethane	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
Bromodichloromethane	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
Bromoform	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
Bromomethane	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
Carbon Disulfide	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
Carbon tetrachloride	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
Chlorobenzene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
Chloroethane	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
Chloroform	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
Chloromethane	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
cis-1,2-Dichloroethene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
cis-1,3-Dichloropropene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
Dibromochloromethane	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
Dibromomethane	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
Dichlorodifluoromethane	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
Ethylbenzene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
Hexachlorobutadiene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
Isopropylbenzene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
m&p-Xylene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
Methyl Ethyl Ketone	ND	26	ug/Kg	1	05/06/23	JLI	SW8260C	
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/06/23	JLI	SW8260C	
Methylene chloride	ND	10	ug/Kg	1	05/06/23	JLI	SW8260C	
Naphthalene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
n-Butylbenzene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
n-Propylbenzene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
o-Xylene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
p-Isopropyltoluene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
sec-Butylbenzene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
Styrene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
tert-Butylbenzene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	
Tetrachloroethene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C	

Project ID:
Client ID: B3 14-15

Phoenix I.D.: CN97324

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/06/23	JLI	SW8260C
Toluene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C
Total Xylenes	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/06/23	JLI	SW8260C
Trichloroethene	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C
Trichlorofluoromethane	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C
Vinyl chloride	ND	5.2	ug/Kg	1	05/06/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	05/06/23	JLI	70 - 130 %
% Bromofluorobenzene	92		%	1	05/06/23	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	05/06/23	JLI	70 - 130 %
% Toluene-d8	96		%	1	05/06/23	JLI	70 - 130 %

Semivolatiles-STARS/CP-51

Acenaphthene	ND	390	ug/Kg	1	05/11/23	KCA	SW8270D
Acenaphthylene	390	390	ug/Kg	1	05/11/23	KCA	SW8270D
Anthracene	1100	390	ug/Kg	1	05/11/23	KCA	SW8270D
Benz(a)anthracene	2300	390	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(a)pyrene	2500	390	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(b)fluoranthene	2500	390	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(ghi)perylene	1800	390	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(k)fluoranthene	880	390	ug/Kg	1	05/11/23	KCA	SW8270D
Chrysene	2100	390	ug/Kg	1	05/11/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	390	ug/Kg	1	05/11/23	KCA	SW8270D
Fluoranthene	4800	390	ug/Kg	1	05/11/23	KCA	SW8270D
Fluorene	ND	390	ug/Kg	1	05/11/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	1700	390	ug/Kg	1	05/11/23	KCA	SW8270D
Naphthalene	ND	390	ug/Kg	1	05/11/23	KCA	SW8270D
Phenanthrene	3700	390	ug/Kg	1	05/11/23	KCA	SW8270D
Pyrene	4100	390	ug/Kg	1	05/11/23	KCA	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	45		%	1	05/11/23	KCA	30 - 130 %
% Nitrobenzene-d5	27		%	1	05/11/23	KCA	30 - 130 %
% Terphenyl-d14	50		%	1	05/11/23	KCA	30 - 130 %

3

Project ID:
Client ID: B3 14-15

Phoenix I.D.: CN97324

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.
3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:
Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director

May 16, 2023

Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 16, 2023

FOR: Attn: Arlette St. Romain
Labella Associates DPC
5 McCrea Hill Rd.,
Ballston Spa, NY 12020

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/02/23	12:00
Location Code:	LABELLA	Received by:	SR1	05/03/23	17:19
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCN97322
Phoenix ID: CN97325

Project ID:
Client ID: B4 10-12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	17.0	0.36	mg/Kg	1	05/08/23	CPP	SW6010D
Percent Solid	87		%		05/03/23	CV	SW846-%Solid
Soil Extraction for SVOA PAH	Completed				05/10/23	B/MO/F	SW3546
Total Metals Digest	Completed				05/05/23	L/AG	SW3050B
Volatiles- STARS/CP-51							
1,2,4-Trimethylbenzene	ND	0.94	ug/Kg	1	05/08/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	0.94	ug/Kg	1	05/08/23	JLI	SW8260C
Benzene	ND	1.9	ug/Kg	1	05/08/23	JLI	SW8260C
Ethylbenzene	ND	1.9	ug/Kg	1	05/08/23	JLI	SW8260C
Isopropylbenzene	ND	0.94	ug/Kg	1	05/08/23	JLI	SW8260C
m&p-Xylene	ND	1.9	ug/Kg	1	05/08/23	JLI	SW8260C
Methyl t-Butyl Ether (MTBE)	ND	0.94	ug/Kg	1	05/08/23	JLI	SW8260C
Naphthalene	ND	0.94	ug/Kg	1	05/08/23	JLI	SW8260C
n-Butylbenzene	ND	0.94	ug/Kg	1	05/08/23	JLI	SW8260C
n-Propylbenzene	ND	0.94	ug/Kg	1	05/08/23	JLI	SW8260C
o-Xylene	ND	1.9	ug/Kg	1	05/08/23	JLI	SW8260C
p-Isopropyltoluene	ND	0.94	ug/Kg	1	05/08/23	JLI	SW8260C
sec-Butylbenzene	ND	0.94	ug/Kg	1	05/08/23	JLI	SW8260C
tert-Butylbenzene	ND	0.94	ug/Kg	1	05/08/23	JLI	SW8260C
Toluene	ND	1.9	ug/Kg	1	05/08/23	JLI	SW8260C
Total Xylenes	ND	1.9	ug/Kg	1	05/08/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-Dichlorobenzene-d4	101		%	1	05/08/23	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	05/08/23	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	05/08/23	JLI	70 - 130 %
% Toluene-d8	98		%	1	05/08/23	JLI	70 - 130 %

Ver 1

Project ID:
Client ID: B4 10-12

Phoenix I.D.: CN97325

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Semivolatiles-STARS/CP-51							
Acenaphthene	ND	260	ug/Kg	1	05/11/23	KCA	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	05/11/23	KCA	SW8270D
Anthracene	ND	260	ug/Kg	1	05/11/23	KCA	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	05/11/23	KCA	SW8270D
Chrysene	ND	260	ug/Kg	1	05/11/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	05/11/23	KCA	SW8270D
Fluoranthene	ND	260	ug/Kg	1	05/11/23	KCA	SW8270D
Fluorene	ND	260	ug/Kg	1	05/11/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	05/11/23	KCA	SW8270D
Naphthalene	ND	260	ug/Kg	1	05/11/23	KCA	SW8270D
Phenanthrene	ND	260	ug/Kg	1	05/11/23	KCA	SW8270D
Pyrene	ND	260	ug/Kg	1	05/11/23	KCA	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	69		%	1	05/11/23	KCA	30 - 130 %
% Nitrobenzene-d5	71		%	1	05/11/23	KCA	30 - 130 %
% Terphenyl-d14	61		%	1	05/11/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
May 16, 2023
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 16, 2023

FOR: Attn: Arlette St. Romain
Labella Associates DPC
5 McCrea Hill Rd.,
Ballston Spa, NY 12020

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		05/02/23	12:30
Location Code:	LABELLA	Received by:	SR1	05/03/23	17:19
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCN97322
Phoenix ID: CN97326

Project ID:
Client ID: B5 8-10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	49.1	0.41	mg/Kg	1	05/08/23	CPP	SW6010D
Percent Solid	81		%		05/03/23	CV	SW846-%Solid
Soil Extraction for SVOA PAH	Completed				05/10/23	B/MO/F	SW3546
Total Metals Digest	Completed				05/05/23	L/AG	SW3050B
Volatiles- STARS/CP-51							
1,2,4-Trimethylbenzene	ND	1.2	ug/Kg	1	05/09/23	JLI	SW8260C
1,3,5-Trimethylbenzene	ND	1.2	ug/Kg	1	05/09/23	JLI	SW8260C
Benzene	ND	2.5	ug/Kg	1	05/09/23	JLI	SW8260C
Ethylbenzene	ND	2.5	ug/Kg	1	05/09/23	JLI	SW8260C
Isopropylbenzene	ND	1.2	ug/Kg	1	05/09/23	JLI	SW8260C
m&p-Xylene	ND	2.5	ug/Kg	1	05/09/23	JLI	SW8260C
Methyl t-Butyl Ether (MTBE)	ND	1.2	ug/Kg	1	05/09/23	JLI	SW8260C
Naphthalene	ND	1.2	ug/Kg	1	05/09/23	JLI	SW8260C
n-Butylbenzene	ND	1.2	ug/Kg	1	05/09/23	JLI	SW8260C
n-Propylbenzene	ND	1.2	ug/Kg	1	05/09/23	JLI	SW8260C
o-Xylene	ND	2.5	ug/Kg	1	05/09/23	JLI	SW8260C
p-Isopropyltoluene	ND	1.2	ug/Kg	1	05/09/23	JLI	SW8260C
sec-Butylbenzene	ND	1.2	ug/Kg	1	05/09/23	JLI	SW8260C
tert-Butylbenzene	ND	1.2	ug/Kg	1	05/09/23	JLI	SW8260C
Toluene	ND	2.5	ug/Kg	1	05/09/23	JLI	SW8260C
Total Xylenes	ND	2.5	ug/Kg	1	05/09/23	JLI	SW8260C
QA/QC Surrogates							
% 1,2-Dichlorobenzene-d4	102		%	1	05/09/23	JLI	70 - 130 %
% Bromofluorobenzene	85		%	1	05/09/23	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	05/09/23	JLI	70 - 130 %
% Toluene-d8	93		%	1	05/09/23	JLI	70 - 130 %

Ver 1

Project ID:
Client ID: B5 8-10

Phoenix I.D.: CN97326

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Semivolatiles-STARS/CP-51							
Acenaphthene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Anthracene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Chrysene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Fluoranthene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Fluorene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Naphthalene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Phenanthrene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
Pyrene	ND	280	ug/Kg	1	05/11/23	KCA	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	72		%	1	05/11/23	KCA	30 - 130 %
% Nitrobenzene-d5	76		%	1	05/11/23	KCA	30 - 130 %
% Terphenyl-d14	59		%	1	05/11/23	KCA	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200.
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Phyllis Shiller, Laboratory Director
May 16, 2023
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

May 16, 2023

QA/QC Data

SDG I.D.: GCN97322

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 676065 (mg/kg), QC Sample No: CN97409 2X (CN97323, CN97324)													
Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	95.2	84.7	11.7	110	103	6.6	70 - 130	30
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.													
QA/QC Batch 676378 (mg/kg), QC Sample No: CN93001 (CN97325, CN97326)													
ICP Metals - Soil													
Lead	BRL	0.33	55.5	51.2	8.10	109	100	8.6	115			75 - 125	35
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													
QA/QC Batch 676208 (mg/kg), QC Sample No: CN96896 (CN97322, CN97323, CN97324)													
ICP Metals - Soil													
Arsenic	BRL	0.67	15.4	16.5	6.90	101	101	0.0	105			75 - 125	35
Barium	BRL	0.33	26.3	34.6	27.3	105	105	0.0	116			75 - 125	35
Cadmium	BRL	0.33	0.70	0.78	NC	97.4	96.1	1.3	102			75 - 125	35
Chromium	BRL	0.33	23.7	25.3	6.50	102	102	0.0	106			75 - 125	35
Lead	BRL	0.33	15.4	20.6	28.9	99.8	98.7	1.1	112			75 - 125	35
Selenium	BRL	1.3	<1.4	<1.3	NC	107	105	1.9	107			75 - 125	35
Silver	BRL	0.33	<0.36	<0.34	NC	102	99.2	2.8	104			75 - 125	35
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

May 16, 2023

QA/QC Data

SDG I.D.: GCN97322

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 676948 (ug/kg), QC Sample No: CO01257 (CN97322, CN97323, CN97324, CN97325, CN97326)											
Polynuclear Aromatic HC - Soil											
Acenaphthene	ND	230	75	76	1.3	58	54	7.1	30 - 130	30	
Acenaphthylene	ND	230	71	71	0.0	55	52	5.6	40 - 140	30	
Anthracene	ND	230	76	78	2.6	61	56	8.5	40 - 140	30	
Benz(a)anthracene	ND	230	71	75	5.5	56	52	7.4	40 - 140	30	
Benzo(a)pyrene	ND	230	90	92	2.2	67	61	9.4	40 - 140	30	
Benzo(b)fluoranthene	ND	230	91	97	6.4	61	56	8.5	40 - 140	30	
Benzo(ghi)perylene	ND	230	108	118	8.8	76	67	12.6	40 - 140	30	
Benzo(k)fluoranthene	ND	230	80	89	10.7	57	51	11.1	40 - 140	30	
Chrysene	ND	230	75	80	6.5	61	55	10.3	40 - 140	30	
Dibenz(a,h)anthracene	ND	230	105	115	9.1	74	65	12.9	40 - 140	30	
Fluoranthene	ND	230	77	77	0.0	61	56	8.5	40 - 140	30	
Fluorene	ND	230	82	84	2.4	64	60	6.5	40 - 140	30	
Indeno(1,2,3-cd)pyrene	ND	230	109	118	7.9	75	67	11.3	40 - 140	30	
Naphthalene	ND	230	86	85	1.2	65	60	8.0	40 - 140	30	
Phenanthrene	ND	230	77	82	6.3	63	56	11.8	40 - 140	30	
Pyrene	ND	230	76	75	1.3	59	56	5.2	30 - 130	30	
% 2-Fluorobiphenyl	67	%	67	67	0.0	52	50	3.9	30 - 130	30	
% Nitrobenzene-d5	67	%	70	68	2.9	54	52	3.8	30 - 130	30	
% Terphenyl-d14	63	%	72	71	1.4	57	51	11.1	30 - 130	30	
QA/QC Batch 676806 (ug/kg), QC Sample No: CN97920 (CN97325)											
Volatiles - Soil (Low Level)											
1,2,4-Trimethylbenzene	ND	1.0	112	115	2.6	92			70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	111	114	2.7	93			70 - 130	30	
Benzene	ND	1.0	104	107	2.8	87			70 - 130	30	
Ethylbenzene	ND	1.0	111	114	2.7	92			70 - 130	30	
Isopropylbenzene	ND	1.0	111	115	3.5	93			70 - 130	30	
m&p-Xylene	ND	2.0	109	112	2.7	91			70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	88	90	2.2	68			70 - 130	30	m
Naphthalene	ND	5.0	122	125	2.4	88			70 - 130	30	
n-Butylbenzene	ND	1.0	112	116	3.5	89			70 - 130	30	
n-Propylbenzene	ND	1.0	111	115	3.5	93			70 - 130	30	
o-Xylene	ND	2.0	110	113	2.7	91			70 - 130	30	
p-Isopropyltoluene	ND	1.0	113	117	3.5	92			70 - 130	30	
sec-Butylbenzene	ND	1.0	110	115	4.4	91			70 - 130	30	
tert-Butylbenzene	ND	1.0	111	115	3.5	93			70 - 130	30	
Toluene	ND	1.0	107	108	0.9	90			70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	100	101	1.0	102			70 - 130	30	
% Bromofluorobenzene	97	%	101	99	2.0	100			70 - 130	30	
% Dibromofluoromethane	102	%	101	102	1.0	96			70 - 130	30	
% Toluene-d8	99	%	98	98	0.0	99			70 - 130	30	

QA/QC Data

SDG I.D.: GCN97322

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Comment:											
The MSD is not reported for this LL soil batch.											
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.											
QA/QC Batch 676595 (ug/kg), QC Sample No: CN98773 (CN97322, CN97323, CN97324)											
Volatiles - Soil (Low Level)											
1,1,1,2-Tetrachloroethane	ND	5.0	100	103	3.0	103	99	4.0	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	95	97	2.1	101	97	4.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	97	100	3.0	105	35	100.0	70 - 130	30	m,r
1,1,2-Trichloroethane	ND	5.0	96	99	3.1	96	94	2.1	70 - 130	30	
1,1-Dichloroethane	ND	5.0	93	96	3.2	100	95	5.1	70 - 130	30	
1,1-Dichloroethene	ND	5.0	93	95	2.1	96	90	6.5	70 - 130	30	
1,1-Dichloropropene	ND	5.0	99	102	3.0	101	98	3.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	94	97	3.1	57	60	5.1	70 - 130	30	m
1,2,3-Trichloropropane	ND	5.0	92	97	5.3	104	95	9.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	93	92	1.1	61	63	3.2	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	1.0	98	99	1.0	89	93	4.4	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	104	110	5.6	105	100	4.9	70 - 130	30	
1,2-Dibromoethane	ND	5.0	101	104	2.9	104	99	4.9	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	94	96	2.1	90	86	4.5	70 - 130	30	
1,2-Dichloroethane	ND	5.0	90	93	3.3	95	92	3.2	70 - 130	30	
1,2-Dichloropropane	ND	5.0	95	98	3.1	97	94	3.1	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	100	101	1.0	100	98	2.0	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	93	94	1.1	93	88	5.5	70 - 130	30	
1,3-Dichloropropane	ND	5.0	99	103	4.0	105	99	5.9	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	92	92	0.0	91	86	5.6	70 - 130	30	
2,2-Dichloropropane	ND	5.0	95	97	2.1	98	94	4.2	70 - 130	30	
2-Chlorotoluene	ND	5.0	99	100	1.0	104	98	5.9	70 - 130	30	
2-Hexanone	ND	25	93	98	5.2	84	83	1.2	70 - 130	30	
2-Isopropyltoluene	ND	5.0	99	101	2.0	96	94	2.1	70 - 130	30	
4-Chlorotoluene	ND	5.0	96	98	2.1	102	95	7.1	70 - 130	30	
4-Methyl-2-pentanone	ND	25	92	96	4.3	88	88	0.0	70 - 130	30	
Acetone	ND	10	77	80	3.8	88	93	5.5	70 - 130	30	
Acrylonitrile	ND	5.0	92	96	4.3	88	87	1.1	70 - 130	30	
Benzene	ND	1.0	98	101	3.0	101	98	3.0	70 - 130	30	
Bromobenzene	ND	5.0	98	101	3.0	108	100	7.7	70 - 130	30	
Bromochloromethane	ND	5.0	95	99	4.1	99	96	3.1	70 - 130	30	
Bromodichloromethane	ND	5.0	95	99	4.1	98	95	3.1	70 - 130	30	
Bromoform	ND	5.0	104	107	2.8	97	95	2.1	70 - 130	30	
Bromomethane	ND	5.0	94	96	2.1	101	93	8.2	70 - 130	30	
Carbon Disulfide	ND	5.0	87	89	2.3	74	74	0.0	70 - 130	30	
Carbon tetrachloride	ND	5.0	96	98	2.1	99	96	3.1	70 - 130	30	
Chlorobenzene	ND	5.0	96	99	3.1	98	93	5.2	70 - 130	30	
Chloroethane	ND	5.0	89	92	3.3	95	89	6.5	70 - 130	30	
Chloroform	ND	5.0	92	96	4.3	99	94	5.2	70 - 130	30	
Chloromethane	ND	5.0	90	92	2.2	98	95	3.1	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	97	100	3.0	101	97	4.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	97	102	5.0	95	94	1.1	70 - 130	30	
Dibromochloromethane	ND	3.0	101	104	2.9	102	99	3.0	70 - 130	30	
Dibromomethane	ND	5.0	96	100	4.1	96	95	1.0	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	91	93	2.2	113	106	6.4	70 - 130	30	
Ethylbenzene	ND	1.0	100	103	3.0	100	97	3.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCN97322

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Hexachlorobutadiene	ND	5.0	96	96	0.0	49	57	15.1	70 - 130	30	m
Isopropylbenzene	ND	1.0	103	105	1.9	112	105	6.5	70 - 130	30	
m&p-Xylene	ND	2.0	99	102	3.0	96	95	1.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	87	90	3.4	84	83	1.2	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	90	94	4.3	95	93	2.1	70 - 130	30	
Methylene chloride	ND	5.0	86	88	2.3	89	86	3.4	70 - 130	30	
Naphthalene	ND	5.0	109	114	4.5	39	57	37.5	70 - 130	30	m,r
n-Butylbenzene	ND	1.0	98	98	0.0	80	82	2.5	70 - 130	30	
n-Propylbenzene	ND	1.0	99	101	2.0	103	98	5.0	70 - 130	30	
o-Xylene	ND	2.0	100	103	3.0	98	95	3.1	70 - 130	30	
p-Isopropyltoluene	ND	1.0	101	102	1.0	94	93	1.1	70 - 130	30	
sec-Butylbenzene	ND	1.0	102	103	1.0	94	94	0.0	70 - 130	30	
Styrene	ND	5.0	97	100	3.0	90	88	2.2	70 - 130	30	
tert-Butylbenzene	ND	1.0	102	104	1.9	103	100	3.0	70 - 130	30	
Tetrachloroethene	ND	5.0	96	98	2.1	94	92	2.2	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	89	93	4.4	91	86	5.6	70 - 130	30	
Toluene	ND	1.0	98	101	3.0	99	95	4.1	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	85	87	2.3	87	84	3.5	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	97	101	4.0	92	92	0.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	106	110	3.7	96	100	4.1	70 - 130	30	
Trichloroethene	ND	5.0	96	100	4.1	102	144	34.1	70 - 130	30	m,r
Trichlorofluoromethane	ND	5.0	89	92	3.3	95	91	4.3	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	84	86	2.4	86	83	3.6	70 - 130	30	
Vinyl chloride	ND	5.0	93	96	3.2	100	93	7.3	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	99	100	1.0	98	97	1.0	70 - 130	30	
% Bromofluorobenzene	93	%	98	98	0.0	93	94	1.1	70 - 130	30	
% Dibromofluoromethane	96	%	99	100	1.0	100	99	1.0	70 - 130	30	
% Toluene-d8	96	%	98	99	1.0	97	98	1.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

QA/QC Batch 677045 (ug/kg), QC Sample No: CN99217 (CN97326)

Volatiles - Soil (Low Level)

1,2,4-Trimethylbenzene	ND	1.0	99	104	4.9	94	104	10.1	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	99	105	5.9	95	105	10.0	70 - 130	30	
Benzene	ND	1.0	98	102	4.0	97	103	6.0	70 - 130	30	
Ethylbenzene	ND	1.0	99	103	4.0	95	103	8.1	70 - 130	30	
Isopropylbenzene	ND	1.0	102	108	5.7	98	109	10.6	70 - 130	30	
m&p-Xylene	ND	2.0	99	103	4.0	94	102	8.2	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	94	96	2.1	92	95	3.2	70 - 130	30	
Naphthalene	ND	5.0	109	113	3.6	107	118	9.8	70 - 130	30	
n-Butylbenzene	ND	1.0	99	105	5.9	86	99	14.1	70 - 130	30	
n-Propylbenzene	ND	1.0	98	104	5.9	92	103	11.3	70 - 130	30	
o-Xylene	ND	2.0	100	103	3.0	97	104	7.0	70 - 130	30	
p-Isopropyltoluene	ND	1.0	100	106	5.8	91	104	13.3	70 - 130	30	
sec-Butylbenzene	ND	1.0	101	106	4.8	93	106	13.1	70 - 130	30	
tert-Butylbenzene	ND	1.0	101	106	4.8	97	109	11.7	70 - 130	30	
Toluene	ND	1.0	98	102	4.0	95	101	6.1	70 - 130	30	
% 1,2-dichlorobenzene-d4	101	%	100	101	1.0	100	101	1.0	70 - 130	30	
% Bromofluorobenzene	93	%	98	98	0.0	99	100	1.0	70 - 130	30	
% Dibromofluoromethane	95	%	98	97	1.0	98	98	0.0	70 - 130	30	
% Toluene-d8	96	%	99	99	0.0	100	99	1.0	70 - 130	30	

QA/QC Data

SDG I.D.: GCN97322

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
May 16, 2023

Tuesday, May 16, 2023

Criteria: None

State: NY

Sample Criteria Exceedances Report

GCN97322 - LABELLA

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

May 16, 2023 SDG I.D.: GCN97322

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

VOA Narration

CHEM03 05/05/23-2: CN97322, CN97323, CN97324

The following Initial Calibration compounds did not meet RSD% criteria: Chloroethane 21% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.
The following Initial Calibration compounds did not meet recommended response factors: Acetone 0.085 (0.1)
The following Initial Calibration compounds did not meet minimum response factors: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

CHEM31 05/08/23-1: CN97325

The following Initial Calibration compounds did not meet RSD% criteria: Naphthalene 21% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

Environmental Laboratories, Inc.
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NY Temperature Narration

May 16, 2023

SDG I.D.: GCN97322

The samples in this delivery group were received at 1.2°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes ☑ No ☐
Coolant: IPK ☐ ICE ☑ No ☐

PHOENIX
Environmental Laboratories, Inc.

NY/NJ/PA CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 1-2 °C Pg of

Contact Options:
✖ Phone: Arlette St. Romain
☐ Fax:
✖ Email: astromain@labellapc.com

Customer: Five Corners Development Corp.
Address: 742, 754, 756 & 758 State Street
Schenectady, NY 12307

Project:
Report to: See comment section
Invoice to: LaBella Associates
QUOTE # :

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature _____ Date: _____

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs By EPA Method 8260 CP-51 List	SVOCs By EPA Method 8270 CP-51 List	Full List VOCs by EPA Method 8260	RCRA Metals	Lead	250mL Plastic As is	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container (4) oz	40 ml VOA Vial [ ] As is [ ] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [ ] 250ml [ ] As is [ ] H2SO4	PL H2SO4 [ ] 250ml [ ] 500ml [ ] 1000ml	PL NaOH 250ml	PL HNO3 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
97322	B1 8-10	S	5/2/23	930	X	X			X	3			2								
97323	B2 8-10	S	5/2/23	1020		X	X	X		3			2								
97324	B3 14-15	S	5/2/23	1130		X	X	X		3			2								
97325	B4 10-12	S	5/2/23	1200	X	X			X	3			2								
97326	B5 8-10	S	5/2/23	1230	X	X			X	3			2								

Relinquished by:	Accepted by:	Date:	Time:
[signature] 5/3/23 830	[signature]	5/3/23	1815
[signature]	[signature]		3:40
[signature]	[signature]	5/3/23	17:19

Comments, Special Requirements or Regulations:

Email Reports to: astromain@labellapc.com

Data Format:
✖ Phoenix Std Report ☐ EQuIS
☐ Excel ☐ NJ Hazsite EDD
☐ PDF ☐ NY EZ EDD (ASP)
☐ GIS/Key ☐ Other

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ 5 Days
☐ 10 Days
✖ Standard
* SURCHARGE

NJ
☐ Res. Criteria
☐ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ Impact to GW soil screen Criteria
☐ GW Criteria

Data Package:
☐ NJ Reduced Deliv. * ☐ Other
☐ NY Enhanced (ASP B) *

NY
☐ TOGS GW
☐ CP-51 SOIL
☐ 375SCO Unrestricted Soil
☐ 375SCO Residential Soil
☐ 375SCO Residential
☐ 375SCO Commercial Soil
☐ 375SCO Industrial Soil
☐ Subpart 5 DW

PA
☐ Clean Fill Limits
☐ PA-GW
☐ Reg Fill Limits
☐ PA Soil Restricted
☐ PA Soil non-restricted

State Samples Collected? _____

REPORT 2

PHOENIX
Environmental Laboratories, Inc.

Thursday, May 11, 2023

Attn: Arlette St. Romain
Labella Associates DPC
5 McCrea Hill Rd.,
Ballston Spa, NY 12020

Project ID:
SDG ID: GCN97327
Sample ID#s: CN97327 - CN97331, CN97412

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you are the client above and have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext.200. The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Sample Id Cross Reference

May 11, 2023

SDG I.D.: GCN97327

Project ID:

Client Id	Lab Id	Matrix
TGSP-1	CN97327	GROUND WATER
TGSP-2	CN97328	GROUND WATER
TGSP-3	CN97329	GROUND WATER
TGSP-4	CN97330	GROUND WATER
TGSP-5	CN97331	GROUND WATER
TRANSPORT BLANK	CN97412	GROUND WATER

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 11, 2023

FOR: Attn: Arlette St. Romain
Labella Associates DPC
5 McCrea Hill Rd.,
Ballston Spa, NY 12020

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/02/23	13:15
Location Code:	LABELLA	Received by:	SR1	05/03/23	17:19
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCN97327
Phoenix ID: CN97327

Project ID:
Client ID: TGSP-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead (Dissolved)	< 0.002	0.002	mg/L	1	05/04/23	IE	SW6010D
Lead	1.31	0.001	mg/L	1	05/06/23	CPP	SW6010D
Filtration	Completed				05/03/23	AG	0.45um Filter
Dissolved Metals Preparation	Completed				05/03/23	AG	SW3005A
Total Metals Digestion	Completed				05/03/23	AG	SW3010A
Volatiles- Stars/CP-51							
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
Benzene	ND	0.70	ug/L	1	05/04/23	HM	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
m&p-Xylene	ND	2.0	ug/L	1	05/04/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
Naphthalene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
o-Xylene	ND	2.0	ug/L	1	05/04/23	HM	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
Toluene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
Total Xylenes	ND	2.0	ug/L	1	05/04/23	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	05/04/23	HM	70 - 130 %
% Bromofluorobenzene	97		%	1	05/04/23	HM	70 - 130 %
% Dibromofluoromethane	100		%	1	05/04/23	HM	70 - 130 %

Project ID:
Client ID: TGSP-1

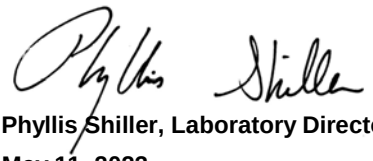
Phoenix I.D.: CN97327

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	97		%	1	05/04/23	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

May 11, 2023

Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 11, 2023

FOR: Attn: Arlette St. Romain
Labella Associates DPC
5 McCrea Hill Rd.,
Ballston Spa, NY 12020

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/02/23	13:30
Location Code:	LABELLA	Received by:	SR1	05/03/23	17:19
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCN97327
Phoenix ID: CN97328

Project ID:
Client ID: TGSP-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/06/23	CPP	SW6010D
Arsenic	0.011	0.004	mg/L	1	05/06/23	CPP	SW6010D
Barium	0.121	0.002	mg/L	1	05/06/23	CPP	SW6010D
Cadmium	0.002	0.001	mg/L	1	05/06/23	CPP	SW6010D
Chromium	0.032	0.001	mg/L	1	05/06/23	CPP	SW6010D
Silver (Dissolved)	< 0.001	0.001	mg/L	1	05/04/23	IE	SW6010D
Arsenic (Dissolved)	< 0.004	0.004	mg/L	1	05/04/23	IE	SW6010D
Barium (Dissolved)	0.033	0.002	mg/L	1	05/04/23	IE	SW6010D
Cadmium (Dissolved)	< 0.001	0.001	mg/L	1	05/04/23	IE	SW6010D
Chromium (Dissolved)	0.001	0.001	mg/L	1	05/04/23	IE	SW6010D
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	1	05/04/23	PM	SW7470A
Lead (Dissolved)	< 0.002	0.002	mg/L	1	05/04/23	IE	SW6010D
Selenium (Dissolved)	< 0.011	0.011	mg/L	1	05/04/23	IE	SW6010D
Mercury	< 0.0002	0.0002	mg/L	1	05/04/23	PM	SW7470A
Lead	0.017	0.001	mg/L	1	05/06/23	CPP	SW6010D
Selenium	< 0.010	0.010	mg/L	1	05/06/23	CPP	SW6010D
Filtration	Completed				05/03/23	AG	0.45um Filter
Mercury Dissolved Digestion	Completed				05/04/23	W/W/ZT	SW7470A
Mercury Digestion	Completed				05/04/23	W/W/ZT	SW7470A
Dissolved Metals Preparation	Completed				05/03/23	AG	SW3005A
Total Metals Digestion	Completed				05/03/23	AG	SW3010A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/04/23	HM	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C

Project ID:

Phoenix I.D.: CN97328

Client ID: TGSP-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,1-Dichloroethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,1-Dichloroethene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,1-Dichloropropene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,2-Dibromoethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,2-Dichloroethane	ND	0.60	ug/L	1	05/04/23	HM	SW8260C	
1,2-Dichloropropane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,3-Dichloropropane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
2,2-Dichloropropane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
2-Chlorotoluene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
2-Hexanone	ND	5.0	ug/L	1	05/04/23	HM	SW8260C	
2-Isopropyltoluene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	1
4-Chlorotoluene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/04/23	HM	SW8260C	
Acetone	ND	25	ug/L	1	05/04/23	HM	SW8260C	
Acrylonitrile	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Benzene	ND	0.70	ug/L	1	05/04/23	HM	SW8260C	
Bromobenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Bromochloromethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Bromodichloromethane	ND	0.50	ug/L	1	05/04/23	HM	SW8260C	
Bromoform	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Bromomethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Carbon Disulfide	ND	5.0	ug/L	1	05/04/23	HM	SW8260C	
Carbon tetrachloride	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Chlorobenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Chloroethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Chloroform	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Chloromethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/04/23	HM	SW8260C	
Dibromochloromethane	ND	0.50	ug/L	1	05/04/23	HM	SW8260C	
Dibromomethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Ethylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Hexachlorobutadiene	ND	0.40	ug/L	1	05/04/23	HM	SW8260C	
Isopropylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
m&p-Xylene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Methyl ethyl ketone	ND	5.0	ug/L	1	05/04/23	HM	SW8260C	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Methylene chloride	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Naphthalene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	

Project ID:
Client ID: TGSP-2

Phoenix I.D.: CN97328

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
n-Butylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
n-Propylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
o-Xylene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
p-Isopropyltoluene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
sec-Butylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Styrene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
tert-Butylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Tetrachloroethene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/04/23	HM	SW8260C	1
Toluene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Total Xylenes	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/04/23	HM	SW8260C	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/04/23	HM	SW8260C	
Trichloroethene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Trichlorofluoromethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Vinyl chloride	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	105		%	1	05/04/23	HM	70 - 130 %	
% Bromofluorobenzene	93		%	1	05/04/23	HM	70 - 130 %	
% Dibromofluoromethane	99		%	1	05/04/23	HM	70 - 130 %	
% Toluene-d8	96		%	1	05/04/23	HM	70 - 130 %	

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
May 11, 2023
Reviewed and Released by: Rashmi Makol, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 11, 2023

FOR: Attn: Arlette St. Romain
Labella Associates DPC
5 McCrea Hill Rd.,
Ballston Spa, NY 12020

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/02/23	13:45
Location Code:	LABELLA	Received by:	SR1	05/03/23	17:19
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCN97327
Phoenix ID: CN97329

Project ID:
Client ID: TGSP-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/06/23	CPP	SW6010D
Arsenic	0.034	0.004	mg/L	1	05/06/23	CPP	SW6010D
Barium	0.694	0.002	mg/L	1	05/06/23	CPP	SW6010D
Cadmium	0.007	0.001	mg/L	1	05/06/23	CPP	SW6010D
Chromium	0.082	0.001	mg/L	1	05/06/23	CPP	SW6010D
Silver (Dissolved)	< 0.001	0.001	mg/L	1	05/04/23	IE	SW6010D
Arsenic (Dissolved)	< 0.004	0.004	mg/L	1	05/04/23	IE	SW6010D
Barium (Dissolved)	0.068	0.002	mg/L	1	05/04/23	IE	SW6010D
Cadmium (Dissolved)	< 0.001	0.001	mg/L	1	05/04/23	IE	SW6010D
Chromium (Dissolved)	< 0.001	0.001	mg/L	1	05/04/23	IE	SW6010D
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	1	05/04/23	PM	SW7470A
Lead (Dissolved)	< 0.002	0.002	mg/L	1	05/04/23	IE	SW6010D
Selenium (Dissolved)	< 0.011	0.011	mg/L	1	05/04/23	IE	SW6010D
Mercury	0.0018	0.0002	mg/L	1	05/04/23	PM	SW7470A
Lead	1.87	0.001	mg/L	1	05/06/23	CPP	SW6010D
Selenium	< 0.010	0.010	mg/L	1	05/06/23	CPP	SW6010D
Filtration	Completed				05/03/23	AG	0.45um Filter
Mercury Dissolved Digestion	Completed				05/04/23	W/W/ZT	SW7470A
Mercury Digestion	Completed				05/04/23	W/W/ZT	SW7470A
Dissolved Metals Preparation	Completed				05/03/23	AG	SW3005A
Total Metals Digestion	Completed				05/03/23	AG	SW3010A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/04/23	HM	SW8260C
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C

Project ID:
Client ID: TGSP-3

Phoenix I.D.: CN97329

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
1,1-Dichloroethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,1-Dichloroethene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,1-Dichloropropene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,2-Dibromoethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,2-Dichloroethane	ND	0.60	ug/L	1	05/04/23	HM	SW8260C	
1,2-Dichloropropane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,3-Dichloropropane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
2,2-Dichloropropane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
2-Chlorotoluene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
2-Hexanone	ND	5.0	ug/L	1	05/04/23	HM	SW8260C	
2-Isopropyltoluene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	1
4-Chlorotoluene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/04/23	HM	SW8260C	
Acetone	ND	25	ug/L	1	05/04/23	HM	SW8260C	
Acrylonitrile	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Benzene	ND	0.70	ug/L	1	05/04/23	HM	SW8260C	
Bromobenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Bromochloromethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Bromodichloromethane	ND	0.50	ug/L	1	05/04/23	HM	SW8260C	
Bromoform	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Bromomethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Carbon Disulfide	ND	5.0	ug/L	1	05/04/23	HM	SW8260C	
Carbon tetrachloride	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Chlorobenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Chloroethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Chloroform	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Chloromethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/04/23	HM	SW8260C	
Dibromochloromethane	ND	0.50	ug/L	1	05/04/23	HM	SW8260C	
Dibromomethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Ethylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Hexachlorobutadiene	ND	0.40	ug/L	1	05/04/23	HM	SW8260C	
Isopropylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
m&p-Xylene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Methyl ethyl ketone	ND	5.0	ug/L	1	05/04/23	HM	SW8260C	
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Methylene chloride	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Naphthalene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	

Project ID:
Client ID: TGSP-3

Phoenix I.D.: CN97329

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
n-Butylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
n-Propylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
o-Xylene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
p-Isopropyltoluene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
sec-Butylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Styrene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
tert-Butylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Tetrachloroethene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/04/23	HM	SW8260C	1
Toluene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Total Xylenes	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/04/23	HM	SW8260C	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/04/23	HM	SW8260C	
Trichloroethene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Trichlorofluoromethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
Vinyl chloride	ND	1.0	ug/L	1	05/04/23	HM	SW8260C	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	105		%	1	05/04/23	HM	70 - 130 %	
% Bromofluorobenzene	94		%	1	05/04/23	HM	70 - 130 %	
% Dibromofluoromethane	98		%	1	05/04/23	HM	70 - 130 %	
% Toluene-d8	98		%	1	05/04/23	HM	70 - 130 %	

1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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The contents of this report cannot be discussed with anyone other than the client listed above without their written consent.

Phyllis Shiller, Laboratory Director
May 11, 2023
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 11, 2023

FOR: Attn: Arlette St. Romain
Labella Associates DPC
5 McCrea Hill Rd.,
Ballston Spa, NY 12020

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/02/23	14:00
Location Code:	LABELLA	Received by:	SR1	05/03/23	17:19
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCN97327
Phoenix ID: CN97330

Project ID:
Client ID: TGSP-4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead (Dissolved)	< 0.002	0.002	mg/L	1	05/04/23	IE	SW6010D
Lead	0.522	0.001	mg/L	1	05/06/23	CPP	SW6010D
Filtration	Completed				05/03/23	AG	0.45um Filter
Dissolved Metals Preparation	Completed				05/03/23	AG	SW3005A
Total Metals Digestion	Completed				05/03/23	AG	SW3010A
Volatiles- Stars/CP-51							
1,2,4-Trimethylbenzene	200	2.0	ug/L	2	05/08/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	2.0	ug/L	2	05/08/23	HM	SW8260C
Benzene	ND	1.4	ug/L	2	05/08/23	HM	SW8260C
Ethylbenzene	ND	2.0	ug/L	2	05/08/23	HM	SW8260C
Isopropylbenzene	20	2.0	ug/L	2	05/08/23	HM	SW8260C
m&p-Xylene	ND	4.0	ug/L	2	05/08/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	2	05/08/23	HM	SW8260C
Naphthalene	ND	2.0	ug/L	2	05/08/23	HM	SW8260C
n-Butylbenzene	6.0	2.0	ug/L	2	05/08/23	HM	SW8260C
n-Propylbenzene	47	2.0	ug/L	2	05/08/23	HM	SW8260C
o-Xylene	ND	4.0	ug/L	2	05/08/23	HM	SW8260C
p-Isopropyltoluene	ND	2.0	ug/L	2	05/08/23	HM	SW8260C
sec-Butylbenzene	6.6	2.0	ug/L	2	05/08/23	HM	SW8260C
tert-Butylbenzene	ND	2.0	ug/L	2	05/08/23	HM	SW8260C
Toluene	ND	2.0	ug/L	2	05/08/23	HM	SW8260C
Total Xylenes	ND	4.0	ug/L	2	05/08/23	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4 (2x)	100		%	2	05/08/23	HM	70 - 130 %
% Bromofluorobenzene (2x)	97		%	2	05/08/23	HM	70 - 130 %
% Dibromofluoromethane (2x)	103		%	2	05/08/23	HM	70 - 130 %

Ver 1

Project ID:
Client ID: TGSP-4

Phoenix I.D.: CN97330

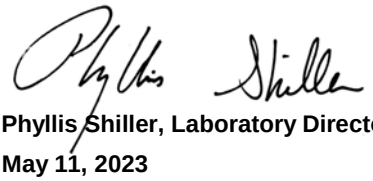
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8 (2x)	97		%	2	05/08/23	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Elevated reporting limits for volatiles due to sediment in the vial.

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Phyllis Shiller, Laboratory Director
May 11, 2023
Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 11, 2023

FOR: Attn: Arlette St. Romain
Labella Associates DPC
5 McCrea Hill Rd.,
Ballston Spa, NY 12020

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/02/23	14:15
Location Code:	LABELLA	Received by:	SR1	05/03/23	17:19
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCN97327
Phoenix ID: CN97331

Project ID:
Client ID: TGSP-5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead (Dissolved)	< 0.002	0.002	mg/L	1	05/04/23	IE	SW6010D
Lead	1.20	0.001	mg/L	1	05/06/23	CPP	SW6010D
Filtration	Completed				05/03/23	AG	0.45um Filter
Dissolved Metals Preparation	Completed				05/03/23	AG	SW3005A
Total Metals Digestion	Completed				05/03/23	AG	SW3010A
Volatiles- Stars/CP-51							
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
Benzene	ND	0.70	ug/L	1	05/04/23	HM	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
m&p-Xylene	ND	2.0	ug/L	1	05/04/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
Naphthalene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
o-Xylene	ND	2.0	ug/L	1	05/04/23	HM	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
Toluene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
Total Xylenes	ND	2.0	ug/L	1	05/04/23	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	05/04/23	HM	70 - 130 %
% Bromofluorobenzene	96		%	1	05/04/23	HM	70 - 130 %
% Dibromofluoromethane	99		%	1	05/04/23	HM	70 - 130 %

Ver 1

Project ID:
Client ID: TGSP-5

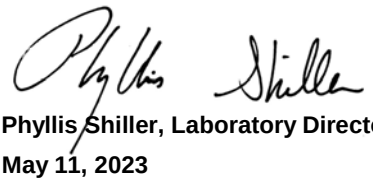
Phoenix I.D.: CN97331

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	97		%	1	05/04/23	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director

May 11, 2023

Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

May 11, 2023

FOR: Attn: Arlette St. Romain
Labella Associates DPC
5 McCrea Hill Rd.,
Ballston Spa, NY 12020

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		05/02/23	
Location Code:	LABELLA	Received by:	RP	05/03/23	17:19
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GCN97327
Phoenix ID: CN97412

Project ID:
Client ID: TRANSPORT BLANK

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles- Stars/CP-51							
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
Benzene	ND	0.70	ug/L	1	05/04/23	HM	SW8260C
Ethylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
Isopropylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
m&p-Xylene	ND	2.0	ug/L	1	05/04/23	HM	SW8260C
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
Naphthalene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
n-Butylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
n-Propylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
o-Xylene	ND	2.0	ug/L	1	05/04/23	HM	SW8260C
p-Isopropyltoluene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
sec-Butylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
tert-Butylbenzene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
Toluene	ND	1.0	ug/L	1	05/04/23	HM	SW8260C
Total Xylenes	ND	2.0	ug/L	1	05/04/23	HM	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	05/04/23	HM	70 - 130 %
% Bromofluorobenzene	95		%	1	05/04/23	HM	70 - 130 %
% Dibromofluoromethane	102		%	1	05/04/23	HM	70 - 130 %
% Toluene-d8	96		%	1	05/04/23	HM	70 - 130 %

Project ID:

Phoenix I.D.: CN97412

Client ID: TRANSPORT BLANK

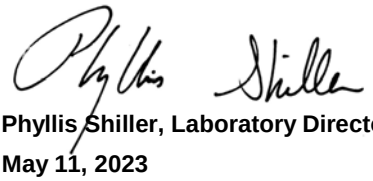
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected at RL/PQL
BRL=Below Reporting Level L=Biased Low
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

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Phyllis Shiller, Laboratory Director

May 11, 2023

Reviewed and Released by: Rashmi Makol, Project Manager

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

May 11, 2023

QA/QC Data

SDG I.D.: GCN97327

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 676026 (mg/L), QC Sample No: CN95746 (CN97328, CN97329)													
Mercury (Dissolved)	BRL	0.0002	<0.0002	<0.0002	NC	104			108			80 - 120	20
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.													
QA/QC Batch 676027 (mg/L), QC Sample No: CN97349 (CN97328, CN97329)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	108			95.6			80 - 120	20
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.													
QA/QC Batch 675998 (mg/L), QC Sample No: CN96285 (CN97327, CN97328, CN97329, CN97330, CN97331)													
ICP Metals - Dissolved													
Arsenic	BRL	0.004	<0.004	<0.004	NC	94.7	93.9	0.8	92.9			80 - 120	20
Barium	BRL	0.002	0.011	0.011	0	96.4	95.3	1.1	94.6			80 - 120	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	98.4	97.2	1.2	96.4			80 - 120	20
Chromium	BRL	0.001	<0.001	<0.001	NC	94.9	94.0	1.0	93.2			80 - 120	20
Lead	BRL	0.002	<0.002	<0.002	NC	95.9	94.9	1.0	93.9			80 - 120	20
Selenium	BRL	0.011	<0.011	<0.011	NC	91.3	91.2	0.1	90.1			80 - 120	20
Silver	BRL	0.001	<0.001	<0.001	NC	96.3	95.4	0.9	94.8			80 - 120	20
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													
QA/QC Batch 675937 (mg/L), QC Sample No: CN96523 (CN97327, CN97328, CN97329, CN97330, CN97331)													
ICP Metals - Aqueous													
Arsenic	BRL	0.0020	<0.004	<0.004	NC	91.2	94.9	4.0	96.2			80 - 120	20
Barium	BRL	0.0010	0.166	0.162	2.40	102	106	3.8	106			80 - 120	20
Cadmium	BRL	0.0005	<0.001	<0.001	NC	98.0	101	3.0	101			80 - 120	20
Chromium	BRL	0.0005	<0.001	<0.001	NC	102	106	3.8	106			80 - 120	20
Lead	BRL	0.0005	<0.001	<0.001	NC	96.9	101	4.1	103			80 - 120	20
Selenium	BRL	0.0050	<0.010	<0.010	NC	84.9	87.5	3.0	87.1			80 - 120	20
Silver	BRL	0.0005	<0.001	<0.001	NC	91.7	95.5	4.1	96.5			80 - 120	20
Comment:													
Additional Criteria: LCS acceptance range is 80-120% MS acceptance range 75-125%.													

PHOENIX

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

May 11, 2023

QA/QC Data

SDG I.D.: GCN97327

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 676743 (ug/L), QC Sample No: CN96192 (CN97327, CN97331, CN97412)										
Volatiles - Ground Water										
1,2,4-Trimethylbenzene	ND	1.0	94	98	4.2	105	112	6.5	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	96	99	3.1	108	113	4.5	70 - 130	30
Benzene	ND	0.70	93	97	4.2	110	115	4.4	70 - 130	30
Ethylbenzene	ND	1.0	96	101	5.1	114	118	3.4	70 - 130	30
Isopropylbenzene	ND	1.0	95	99	4.1	109	116	6.2	70 - 130	30
m&p-Xylene	ND	1.0	95	99	4.1	111	116	4.4	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	93	94	1.1	104	111	6.5	70 - 130	30
Naphthalene	ND	1.0	99	104	4.9	98	113	14.2	70 - 130	30
n-Butylbenzene	ND	1.0	98	102	4.0	113	120	6.0	70 - 130	30
n-Propylbenzene	ND	1.0	95	99	4.1	109	115	5.4	70 - 130	30
o-Xylene	ND	1.0	95	99	4.1	109	114	4.5	70 - 130	30
p-Isopropyltoluene	ND	1.0	97	102	5.0	111	119	7.0	70 - 130	30
sec-Butylbenzene	ND	1.0	96	101	5.1	110	118	7.0	70 - 130	30
tert-Butylbenzene	ND	1.0	96	100	4.1	108	114	5.4	70 - 130	30
Toluene	ND	1.0	95	99	4.1	112	118	5.2	70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	100	101	1.0	100	100	0.0	70 - 130	30
% Bromofluorobenzene	96	%	101	101	0.0	102	101	1.0	70 - 130	30
% Dibromofluoromethane	101	%	101	98	3.0	104	104	0.0	70 - 130	30
% Toluene-d8	96	%	100	99	1.0	100	101	1.0	70 - 130	30
Comment:										
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.										
QA/QC Batch 676051 (ug/L), QC Sample No: CN97328 (CN97328, CN97329)										
Volatiles - Ground Water										
1,1,1,2-Tetrachloroethane	ND	1.0	94	99	5.2				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	87	90	3.4				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	98	100	2.0				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	95	97	2.1				70 - 130	30
1,1-Dichloroethane	ND	1.0	88	92	4.4				70 - 130	30
1,1-Dichloroethene	ND	1.0	86	89	3.4				70 - 130	30
1,1-Dichloropropene	ND	1.0	92	94	2.2				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	99	102	3.0				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	100	100	0.0				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	97	101	4.0				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	100	103	3.0				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	102	100	2.0				70 - 130	30
1,2-Dibromoethane	ND	1.0	95	101	6.1				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	94	97	3.1				70 - 130	30
1,2-Dichloroethane	ND	1.0	91	95	4.3				70 - 130	30
1,2-Dichloropropane	ND	1.0	82	85	3.6				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	100	103	3.0				70 - 130	30

QA/QC Data

SDG I.D.: GCN97327

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,3-Dichlorobenzene	ND	1.0	93	97	4.2				70 - 130	30
1,3-Dichloropropane	ND	1.0	96	102	6.1				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	93	97	4.2				70 - 130	30
2,2-Dichloropropane	ND	1.0	84	88	4.7				70 - 130	30
2-Chlorotoluene	ND	1.0	97	101	4.0				70 - 130	30
2-Hexanone	ND	5.0	102	101	1.0				70 - 130	30
2-Isopropyltoluene	ND	1.0	95	100	5.1				70 - 130	30
4-Chlorotoluene	ND	1.0	97	100	3.0				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	102	100	2.0				70 - 130	30
Acetone	ND	5.0	98	99	1.0				70 - 130	30
Acrylonitrile	ND	5.0	93	94	1.1				70 - 130	30
Benzene	ND	0.70	91	95	4.3				70 - 130	30
Bromobenzene	ND	1.0	96	99	3.1				70 - 130	30
Bromochloromethane	ND	1.0	92	96	4.3				70 - 130	30
Bromodichloromethane	ND	0.50	85	89	4.6				70 - 130	30
Bromoform	ND	1.0	95	99	4.1				70 - 130	30
Bromomethane	ND	1.0	83	100	18.6				70 - 130	30
Carbon Disulfide	ND	1.0	81	84	3.6				70 - 130	30
Carbon tetrachloride	ND	1.0	100	90	10.5				70 - 130	30
Chlorobenzene	ND	1.0	91	96	5.3				70 - 130	30
Chloroethane	ND	1.0	86	91	5.6				70 - 130	30
Chloroform	ND	1.0	89	92	3.3				70 - 130	30
Chloromethane	ND	1.0	85	89	4.6				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	91	97	6.4				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	93	95	2.1				70 - 130	30
Dibromochloromethane	ND	0.50	93	99	6.3				70 - 130	30
Dibromomethane	ND	1.0	88	93	5.5				70 - 130	30
Dichlorodifluoromethane	ND	1.0	87	91	4.5				70 - 130	30
Ethylbenzene	ND	1.0	96	100	4.1				70 - 130	30
Hexachlorobutadiene	ND	0.40	91	94	3.2				70 - 130	30
Isopropylbenzene	ND	1.0	97	99	2.0				70 - 130	30
m&p-Xylene	ND	1.0	96	101	5.1				70 - 130	30
Methyl ethyl ketone	ND	5.0	99	97	2.0				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	90	94	4.3				70 - 130	30
Methylene chloride	ND	1.0	84	87	3.5				70 - 130	30
Naphthalene	ND	1.0	109	110	0.9				70 - 130	30
n-Butylbenzene	ND	1.0	99	102	3.0				70 - 130	30
n-Propylbenzene	ND	1.0	95	96	1.0				70 - 130	30
o-Xylene	ND	1.0	96	101	5.1				70 - 130	30
p-Isopropyltoluene	ND	1.0	99	103	4.0				70 - 130	30
sec-Butylbenzene	ND	1.0	97	101	4.0				70 - 130	30
Styrene	ND	1.0	100	105	4.9				70 - 130	30
tert-Butylbenzene	ND	1.0	99	103	4.0				70 - 130	30
Tetrachloroethene	ND	1.0	88	92	4.4				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	92	94	2.2				70 - 130	30
Toluene	ND	1.0	92	98	6.3				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	85	91	6.8				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	94	99	5.2				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	103	104	1.0				70 - 130	30
Trichloroethene	ND	1.0	90	92	2.2				70 - 130	30
Trichlorofluoromethane	ND	1.0	87	91	4.5				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	79	82	3.7				70 - 130	30
Vinyl chloride	ND	1.0	87	91	4.5				70 - 130	30

QA/QC Data

SDG I.D.: GCN97327

Parameter	Blank	Blk RL		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% 1,2-dichlorobenzene-d4	102	%		102	101	1.0				70 - 130	30
% Bromofluorobenzene	92	%		100	101	1.0				70 - 130	30
% Dibromofluoromethane	96	%		99	96	3.1				70 - 130	30
% Toluene-d8	95	%		99	99	0.0				70 - 130	30

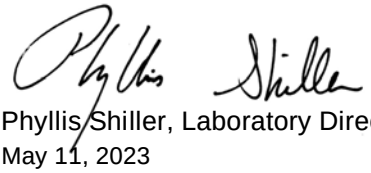
Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%, 25-160% for Chloroethane-HL and Trichlorofluoromethane-HL.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference



Phyllis Shiller, Laboratory Director
May 11, 2023

Thursday, May 11, 2023

Criteria: None

State: NY

Sample Criteria Exceedances Report

GCN97327 - LABELLA

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this exceedance report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Comments

May 11, 2023 SDG I.D.: GCN97327

The following analysis comments are made regarding exceptions to criteria not already noted in the Analysis Report or QA/QC Report:

VOA Narration

CHEM15 05/03/23-2: CN97328, CN97329

The following Initial Calibration compounds did not meet RSD% criteria: Methylene chloride 21% (20%)
The following Initial Calibration compounds did not meet maximum RSD% criteria: None.

Up to eight compounds can be outside of ICAL %RSD criteria and up to sixteen compounds can be outside of CCAL %Dev criteria if less than 40%.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Temperature Narration

May 11, 2023

SDG I.D.: GCN97327

The samples in this delivery group were received at 1.2°C.
(Note acceptance criteria for relevant matrices is above freezing up to 6°C)

Cooler: Yes [X] No [ ]
Coolant: IPK [X] ICE [ ] No [ ]

PHOENIX
Environmental Laboratories, Inc.

NY/NJ/PA CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Temp 1.2°C Pg of

Contact Options:
[X] Phone: Arlette St. Romain
[ ] Fax:
[X] Email: astromain@labellapc.com

Customer: LaBella Associates
Address: 742, 754, 756 & 758 State Street
Schenectady, NY 12307

Project:
Report to: See comment section
Invoice to: LaBella Associates
QUOTE # :

Project P.O:

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature _____ Date: _____

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
RW=Raw Water **SE**=Sediment **SL**=Sludge **S**=Soil **SD**=Solid **W**=Wipe
OIL=Oil **B**=Bulk **L**=Liquid

Analysis Request

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	VOCs By EPA Method 8260 CP-51 List	Full List VOCs by EPA Method 8260	RCRA Metals - Total and Dissolved	Lead- Total and Dissolved	250mL Plastic As is	Soil VOA Vials [ ] methanol [ ] H2O	GL Soil container ( ) oz	GL Soil container ( ) oz	40 ml VOA Vial [ ] As is [X] HCl	GL Amber 1000ml [ ] As is [ ] H2SO4	PL As is [X] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml [ ] 1500ml	PL NaOH 250ml	PL HNO3 250ml	Bacteria Bottle w/thio	Bacteria Bottle as is
97327	TGSP-1	GW	5/2/23	1315	X			X					3		1		1			
97328	TGSP-2	GW	5/2/23	1330		X	X						3		1		1			
97329	TGSP-3	GW	5/2/23	1345		X	X						3		1		1			
97330	TGSP-4	GW	5/2/23	1400	X			X					3		1		1			
97331	TGSP-5	GW	5/2/23	1415	X			X												
																S				
97412	TB												2							

Relinquished by:	Accepted by:	Date:	Time:
B-Stroud 5/3/23 830		5/3/23	1315
	Greg		3pm
Greg	Emily A	5/3/23	1719

Comments, Special Requirements or Regulations:

Email Reports to: astromain@labellapc.com

(*) TB Received not on COC (LD)

Data Format:
[X] Phoenix Std Report [ ] EQuIS
[ ] Excel [ ] NJ Hazsite EDD
[ ] PDF [ ] NY EZ EDD (ASP)
[ ] GIS/Key [ ] Other

Turnaround:
[ ] 1 Day*
[ ] 2 Days*
[ ] 3 Days*
[ ] 5 Days
[ ] 10 Days
[X] Standard
* SURCHARGE

NJ
[ ] Res. Criteria
[ ] Non-Res. Criteria
[ ] Impact to GW Soil Cleanup Criteria
[ ] Impact to GW soil screen Criteria
[ ] GW Criteria

Data Package:
[ ] NJ Reduced Deliv. * [ ] Other
[ ] NY Enhanced (ASP B) *

NY
[ ] TOGS GW
[ ] CP-51 SOIL
[ ] 375SCO Unrestricted Soil
[ ] 375SCO Residential Soil
[ ] 375SCO Residential
[ ] 375SCO Commercial Soil
[ ] 375SCO Industrial Soil
[ ] Subpart 5 DW

PA
[ ] Clean Fill Limits
[ ] PA-GW
[ ] Reg Fill Limits
[ ] PA Soil Restricted
[ ] PA Soil non-restricted

State Samples Collected? _____

REPORT 2

EXHIBIT 4

2024 C.T. MALE PHASE II ENVIRONMENTAL SITE ASSESSMENT

REPORT 3

January 5, 2024

Phase II Environmental Site Assessment Schenectady 40 Anchor Site 742, 754 & 758 State Street and 749 Albany Street City of Schenectady Schenectady County, New York

NYSDEC Spill No. 2300878 PBS No. 4-054429

Prepared for:
ALBANY STATE STREET LIMITED PARTNERSHIP
8 West 38th Street, Suite 1102/1103
New York, NY 10018

Certified To:
The Land Reutilization Corporation of the Capital Region
D/B/A The Capital Region Land Bank

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C.T. Male Project No: 23.3588

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PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT
SCHENECTADY 40 ANCHOR SITE

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EXHIBITS

EXHIBIT 1: 2003 NETC Remedial Investigation and Tank Closure Program Report
EXHIBIT 2: 2023 LaBella Phase II Environmental Site Assessment

PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT
SCHENECTADY 40 ANCHOR SITE

APPENDICES

APPENDIX A: Figures/Maps
APPENDIX B: Ground Penetrating Radar Survey
APPENDIX C: Subsurface Exploration Logs
APPENDIX D: Monitoring Well Construction Logs
APPENDIX E: Organic Vapor Headspace Analysis Log
APPENDIX F: Laboratory Analysis Report for Soil
APPENDIX G: Laboratory Analysis Report for Groundwater

1.0 INTRODUCTION

1.1 Project Background

This report presents the findings of a Phase II Environmental Site Assessment (ESA) conducted by C.T. Male Associates Engineering, Surveying, Architecture, Landscape Architecture & Geology, D.P.C. (C.T. Male) at the Schenectady 40 Anchor Site, which is located in the City of Schenectady, Schenectady County, New York (See Figure 1, Appendix A).

The subject property is comprised of four (4) adjoining parcels of land identified as 742, 754 & 758 State Street and 749 Albany Street.

A Phase I ESA was conducted on the three (3) State Street parcels by LaBella Associates, D.P.C. (LaBella). The report, dated January 31, 2023, identified a recognized environmental condition (REC) for the subject property relative to the use of the subject property for automotive related activities and petroleum storage since the 1930s coupled with known impacts to the subject property above New York State Department of Environmental Conservation (NYSDEC) standards. The information on the known impacts was derived from a review of prior reports.

The prior reports included a 2002 Phase I ESA and a 2003 Subsurface Investigation of the Mohawk Honda Site at 728-756 State Street by Northeastern Environmental Technologies Corp. (NETC) which included a review of off-site properties to the northwest that are not subject to this Phase II ESA. The reports did not include the 749 Albany Street parcel or the 758 State Street parcel. On the basis of the findings of the subsurface investigation, a remedial investigation and tank closure activity was performed by NETC in 2003. Remaining impacts to soils as documented in the 2003 Remedial Investigation & Tank Closure Program Report are discussed in Section 5.1.

The 2023 LaBella Phase I ESA report also identified two (2) significant data gaps associated with the subject property including 1) the lack of information relative to heating systems for prior structures and the current building; and 2) the lack of information regarding the condition of the subsurface in relation to known fill material on the property and lack of information regarding the subsurface in relation to nearby and adjoining properties.

The subject property has a petroleum bulk storage (PBS) registration listed under the name Mohawk Honda with an address of 756 State Street. The subject property is

referenced with PBS No. 4-054429. The facility is listed as active with four (4) above ground storage tanks (ASTs) ranging in capacity from 275 gallons to 1,000 gallons listed as in service, three (3) 500-gallon ASTs listed as closed by removal in 2008 and one (1) 2,000-gallon underground storage tank (UST) listed as closed by removal in 1992.

Subsequent to implementing the Phase II ESA activities, a Phase II ESA report dated June 1, 2023, prepared by LaBella was provided. The LaBella Phase II ESA was completed on the three (3) State Street properties and included a ground penetrating radar (GPR) survey, the advancement of five (5) soil borings, the installation of five (5) temporary groundwater sampling points and the collection of soil and groundwater samples for laboratory analysis. Evidence of three (3) anomalies suggestive of USTs was identified according to the LaBella report. A petroleum type odor and stained soils were identified at B-4, which was advanced proximate to one (1) of the suspect USTs which prompted the reporting of a spill to the NYSDEC Spill Hotline. Spill No. 2300878 was assigned to the subject property. Other findings relative to the 2023 LaBella Phase II ESA report are discussed in Section 5.2.

A Phase I ESA was conducted on the 749 Albany Street parcel by C.T. Male. The report, dated December 20, 2023, identified an REC relative to the findings of LaBella Phase II ESA for the remainder of the subject property. Additionally, the report identified the historic use of the subject property for multiple commercial purposes including an awning manufacturing facility circa 1930; and a garage building, which appeared to be associated with commercial use, was located on the northeastern portion of the 749 Albany Street parcel.

On the basis of these findings, this Phase II ESA was conducted to further evaluate the RECs as well as to establish overall conditions to determine if the subject property would be eligible for the NYSDEC Brownfield Cleanup Program (BCP).

1.2 Site Configuration

The subject property is located at 742, 754 & 758 State Street and 749 Albany Street in the City of Schenectady, Schenectady County, New York (see Figure 1 in Appendix A). The subject property is situated northeast of Albany Street and southwest of State Street on the block between Hulett Street and Armory Alley.

The subject property is improved with a two-story commercial building formerly used as an office and automotive repair garage on the 754 Albany Street parcel. The

building is reportedly constructed on a full basement and was constructed between 1914 and 1930.

Electricity and natural gas are supplied to the site by National Grid. Municipal water and sewer service are provided by the City of Schenectady. The site building is reportedly heated by natural gas.

1.3 Project Scope

The Phase II ESA activities included a GPR survey, and a subsurface investigation which included the advancement of six (6) soil borings, four (4) of which were converted to groundwater monitoring wells; the collection of soil samples for field vapor screening and laboratory analysis; and the collection of groundwater samples for laboratory analysis.

This Phase II ESA was conducted by C.T. Male as requested by Mr. Kiel Sadowsky of Albany State Street Limited Partnership.

2.0 METHOD OF PHASE II ESA INVESTIGATION

2.1 GPR Survey

The GPR survey was completed by GPRS of Jamesville, New York, under the observation of C.T. Male on Monday, November 6, 2023. The GPR survey was conducted on exterior portions of the subject property. The GPR survey was limited by dense vegetation and a fence on the 749 Albany Street parcel.

2.2 Test Boring Locations and Drilling Method

Six (6) test boring locations were selected to provide assessment of the site's overall soil and groundwater conditions. The test borings were located as follows:

- GP-1 was advanced to the southeast of the subject property building on the 758 State Street parcel.
- GP-2 was originally planned on the northeastern portion of the subject property proximate to a suspect UST identified during the GPR survey; however, this location was assessed as a function of LaBella's 2023 Phase II ESA (B-2/TGSP-2) where impacts to soil and/or groundwater were not identified. As such, GP-2 was relocated and was advanced within the central portion of the parking area on the western portion of the subject property on the 742 State Street parcel.
- GP-3 was advanced within the approximate footprint of a former auto body repair shop on the central portion of the 742 State Street parcel.
- GP-4 was advanced to the northeast of a suspect UST identified during the GPR survey, to the north of the subject property building on the 754 State Street parcel. Although a boring was also advanced proximate to this suspect UST during the LaBella Phase II ESA (B-4/TGSP-4) impacts to soil and groundwater were identified at this location; however, a monitoring well had not been installed.
- GP-5 was advanced to the north of the northwestern corner of the subject property building in an area where gasoline USTs were depicted on Sanborn Fire Insurance Maps on the 754 State Street parcel.

- GP-6 was advanced on the northern portion of the 749 Albany Street parcel, in between the area of the former awning manufacturing building and former garage building.

The test boring locations are depicted on the Sampling Location Plan which is included as Figure 2 in Appendix A.

The drilling activities were completed on Wednesday, November 29, 2023 by Precision Environmental Services, Inc. of Ballston Spa, New York. For the purpose of this investigation, Geoprobe drilling techniques were utilized.

At each test location a two-inch diameter MacroCore sampler was advanced at continuous four-foot intervals to the termination depths of the borings. The recovered soil samples were visually classified and recorded on individual subsurface exploration logs.

Soil borings GP-1 (MW-1), GP-3 (MW-3), GP-4 (MW-4) and GP-6 (MW-6) were converted into one-inch diameter groundwater monitoring wells.

2.3 Soil Screening

Soil samples were collected from the soil borings for the purpose of field screening with a Photoionization Detector (PID) meter. Following the recovery of the soil samples from the test borings, each sample was placed in a new, clean sealable plastic bag and then screened for the presence of detectable volatile organic compounds (VOCs) with a MiniRAE 3000 PID equipped with a 10.6 eV lamp. The PID meter was calibrated according to manufacturer recommendations prior to use.

2.4 Soil Sampling

Select soil samples were collected from the soil borings for laboratory analysis as follows:

- GP-1 from 13-16.5 feet below grade surface (bgs);
- GP-2 from 7-7.5 feet bgs;
- GP-3 from 4-5 feet bgs;
- GP-4 from 10-11 feet bgs;
- GP-4 from 15-16 feet bgs;

- GP-5 from 1-2 feet bgs; and
- GP-6 from 0-2 feet bgs.

The soil samples from the borings were selected based on the results of the subjective soil screening activities. The soil samples were collected in new laboratory supplied glass jars while wearing new gloves. The samples were placed in a cooler with ice and were forwarded under chain-of-custody to Alpha Analytical, Inc. of Westborough, Massachusetts for laboratory analysis for the Target Compound List (TCL) & the NYSDEC's Commissioner's Policy-51 (CP-51) list of VOCs by EPA Method 8260, the CP-51 list of semi-volatile organic compounds (SVOCs) by EPA Method 8270 and the Target Analyte List (TAL) of metals. The soil sample from GP-1 was also submitted for laboratory analysis for PCBs by EPA Method 8082.

In addition to the soil samples as described above, one (1) soil sample was collected from a boring advanced within the subject property as a function of a Geotechnical assessment being conducted by C.T. Male. The sample was collected from the boring identified as B-102 from a depth of 8 to 10 feet bgs. This sample was submitted for laboratory analysis for CP-51 SVOCs by EPA Method 8270 and for TAL metals. The sample was submitted to Alpha Analytical Inc. for analysis.

2.5 Groundwater Sampling

Groundwater samples were collected on Thursday, November 30, 2023 from MW-1, MW-3, MW-4 and MW-6. Prior to sampling, the water levels were recorded in each well from the top of the PVC casing utilizing a water level meter. The wells were developed by purging a minimum of five (5) well volumes utilizing a peristaltic pump. The wells were allowed to recover to a minimum of 90% of their pre-purging static water levels. The groundwater samples were collected in new laboratory supplied glass jars while wearing new gloves utilizing the peristaltic pump. New sampling tubing was used at each of the well locations.

The groundwater samples were submitted for laboratory analysis for TCL & CP-51 VOCs by EPA Method 8260, CP-51 SVOCs by EPA Method 8270 and TAL metals. The sample collected from MW-1 was also sampled for PCBs by EPA Method 8082. The samples were placed in a cooler with ice and transported to Alpha Analytical, Inc. of Westborough, Massachusetts following proper chain of custody protocols.

2.6 Decontamination

To preclude the potential for cross contamination between the test boring locations, drilling tools and sampling equipment that would contact the site soils and groundwater were decontaminated prior to the start of the drilling activities and between boring locations utilizing a detergent/water wash and tap water rinse. Soil and groundwater samples were handled with a new pair of nitrile gloves to deter cross contamination of the soil and groundwater samples collected for screening and/or laboratory analysis.

3.0 FINDINGS OF THE PHASE II ESA INVESTIGATION

3.1 GPR Survey

Two (2) anomalies consistent with USTs were identified during the GPR survey. The first anomaly was identified on the northeastern portion of the subject property on the 742 State Street parcel. The anomaly measured approximately 13 feet long by approximately 5.5 feet wide, and reportedly appeared to be located approximately two (2) feet bgs. A linear anomaly was identified to the northwest of the first suspect UST, extending from the UST area to the northeast toward State Street. Although not confirmed, the linear anomaly is potentially associated with a supply line to a former pump or pump island.

The second anomaly was identified on the 754 State Street parcel to the north of the southwestern portion of the subject property building. The anomaly measured approximately 30 feet long by approximately 9 feet wide, and reportedly appeared to be located approximately 2.5 feet to 5 feet below grade, with the depths ranging according to the relative location of the suspect UST along a slope in which the suspect UST was located.

It is noted that a third anomaly, identified as a suspect UST in the LaBella 2023 Phase II ESA, was reported by GPRS to resemble a disturbance with varying soil densities potentially resembling a UST grave.

The GPR Survey Report is included in Appendix B.

3.2 Soil Conditions at Boring Locations

At GP-1, beneath the asphalt, an approximate one-foot layer of brown/gray fine to medium sand containing some fine to coarse gravel and trace silt was underlain by an approximate one-foot layer of brown fine to medium sand with little fine to coarse gravel and brick. From approximately 2 to 4.2 feet bgs the soils consisted of fill consisting of brick with little fine to medium sand and fine gravel. The fill was underlain by brown fine sand with occasional brick to approximately 13 feet bgs. From approximately 13 to 16.5 feet bgs the soils consisted of fine to medium sand with some brick, coal and ash. These soils were underlain by brown fine sand to the termination of the boring at 20 feet bgs. The soils became saturated at approximately

16.5 feet bgs. Petrochemical type odors or staining were not noted in the soils recovered from GP-1.

At GP-2, beneath the asphalt, brown fine to coarse sand with some fine to coarse gravel was encountered to approximately 1.5 feet bgs. From approximately 1.5 to 7 feet bgs brown fine to medium sand with little brick and coal and occasional fine to coarse gravel was encountered. An approximate one half-foot layer of fill material consisting of brick, coal, ash and trace fine sand was encountered beneath these soils. The fill layer was underlain by brown fine to medium sand containing traces of brick and coal with occasional occurrences of fine to coarse gravel to approximately 12 feet bgs. From approximately 12 to 16 feet bgs, where the boring was terminated, brown fine sand and silt with trace brick and occasional fine to coarse gravel was encountered. The soils became wet at approximately 12 feet bgs and saturated at approximately 16 feet bgs. Petrochemical type odors or staining were not noted in the soils recovered from GP-2.

At GP-3, beneath the asphalt surface, an approximate one-foot layer of brown/gray fine to medium coarse sand with little fine to coarse gravel was encountered. These soils were underlain by brown fine to medium sand containing some fine to coarse gravel and trace brick to approximately 4 feet bgs. These soils were underlain by an approximate one-foot layer of brown fine to medium sand with some fine to coarse gravel, little brick, coal fragments, slag and ash followed by an approximate one-foot layer of fill consisting of concrete rubble. These soils were underlain by brown fine sand containing trace brick and glass to 12 feet bgs. There was no recovery in the remainder of the boring which was terminated at approximately 20 feet bgs. The soils became wet at approximately 9 feet bgs. Petrochemical type odors and staining were not noted in the soil samples recovered from GP-3 with the exception of an approximate one-foot layer from approximately 4 to 5 feet bgs where a petrochemical odor resembling waste oil was observed along with little black staining.

At GP-4, beneath the asphalt, brown fine to coarse sand with some fine to coarse gravel and trace fill materials (brick, ash and glass) was encountered to approximately 3 feet bgs. These soils were underlain by brown fine to medium sand with little fine to coarse gravel and trace fill materials (brick, ash, glass and concrete rubble) to approximately 10 feet bgs. These soils were underlain by an approximate one-foot layer of fill materials consisting of brick, coal, slag, ash, glass, concrete rubble and little fine to medium sand. From approximately 11 feet bgs to the

termination of the boring at 20 feet bgs the soils consisted of brown fine to medium sand with little fine to coarse gravel with trace brick. The soils became wet at approximately 14 feet bgs. Petrochemical type odors and staining were noted in the soil samples recovered from approximately 15 to 17.5 feet bgs.

The upper one-foot layer at GP-5 consisted of brown fine to medium sand with some fine to coarse gravel beneath the asphalt. These soils were underlain by an approximate one-foot layer of brown fine to medium sand with some fill consisting of brick, ash, tile fragments and coal, and little fine to coarse gravel. These soils were underlain by brown fine to medium sand with little fine to coarse gravel and trace brick and coal fragments to the termination of the boring at 16 feet bgs. Petrochemical type odors and staining were not noted in the soil samples recovered from GP-5. The soils became wet at approximately 10.5 feet bgs and saturated at approximately 12 feet bgs.

Brown/grey fine to coarse sand and gravel with some fill materials (brick and coal) and trace organics were encountered in the upper 2 feet at GP-6. These soils were underlain by brown fine to medium sand and occasional coarse gravel and trace brick to approximately 8 feet bgs. Brown fine sand with trace silt and brick with occasional coarse gravel was encountered from approximately 8 to 12 feet bgs where the boring was terminated. The soils became wet at approximately 4 feet bgs. Petrochemical odors or staining were not encountered in the soils recovered from GP-6.

The subsurface exploration logs are included in Appendix C.

Soil borings GP-1 (MW-1), GP-3 (MW-3), GP-4 (MW-4) and GP-6 (MW-6) were converted to one-inch diameter monitoring wells constructed of PVC well screen and riser pipe. The monitoring wells located in the paved areas (MW-1, MW-3 and MW-4) were finished at grade with flush mounted curb boxes. Monitoring well construction logs are included in Appendix D.

3.3 Soil Screening Results

The PID readings for the soil samples collected from the borings were less than 1 parts per million (ppm) above background with the exception of three (3) sample intervals from GP-4. The table below provides a summary of sample intervals exhibiting elevated PID readings and/or evidence of petroleum related impacts.

TABLE 3.3-1
SUMMARY OF ELEVATED PID READINGS

Exploration No. (feet bgs)	PID Reading*	Background Reading*	Remarks
GP-3 (4-5)	0.5	0.1	Petrochemical-waste oil odor/little black staining (lab)
GP-3 (5-8)	0.2	0.1	Faint petrochemical odor/no staining
GP-4 (15-16)	380.4	0.1	Petrochemical odor/black staining (lab)
GP-4 (16-18)	96.4	0.1	Petrochemical odor/black staining
GP-4 (18-20)	28.8	0.1	Faint petrochemical odor/little grey staining

*Values shown in parts per million
Lab = Sample interval submitted for laboratory analysis

The samples with the highest PID reading were selected for laboratory analysis. Petrochemical type odors or staining were not noted in the soil samples recovered from the remaining borings.

The Organic Vapor Headspace Analysis Log is included in Appendix E.

3.4 Groundwater Conditions

Groundwater conditions were assessed during the collection of groundwater samples from the monitoring wells on Thursday, November 30, 2023. Petrochemical type odors or sheens were not noted in the groundwater samples collected from MW-1, MW-3 or MW-6. A slight petrochemical odor and a slight sheen were observed during sample collection from MW-4.

Groundwater was encountered from approximately 6.34 feet bgs (MW-6) to 13.24 feet bgs (MW-4) during groundwater sampling activities.

The direction of groundwater flow was not determined; however, groundwater flow is inferred to be to the northwest towards the Mohawk River.

4.0 ANALYTICAL RESULTS

4.1 Subsurface Soil

The soil samples collected from the borings were analyzed for TCL & CP-51 VOCs by EPA Method 8260, CP-51 SVOCs by EPA Method 8270 and TAL metals. The sample from GP-1 was also analyzed for PCBs by EPA 8082. The results are summarized below.

VOCs

VOCs were not detected above the laboratory method detection limit in the samples collected from GP-1, GP-2, GP-3, GP-5 or GP-6.

One (1) VOC was detected in the sample from GP-4 (10-11). Naphthalene was detected at an estimated concentration of 0.0012 ppm below the NYSDEC's Unrestricted Use/CP-51 Soil Cleanup Objective (SCO)[1] of 12 ppm.

Fifteen (15) VOCs were detected in the sample from GP-4 (15-16). Of those, two (2) were detected at concentrations exceeding NYSDEC's Unrestricted Use/CP-51 SCOs. The are:

- n-Propylbenzene was detected at a concentration of 7 ppm as compared to the Unrestricted Use/CP-51 SCO of 3.9 ppm; and
- 1,2,4-Trimethylbenzene was detected at a concentration of 9.2 ppm as compared to the Unrestricted Use/CP-51 SCO of 3.6 ppm.

SVOCs

SVOCs were not detected above the laboratory method detection limit in the soil samples collected from GP-2; however, eight or more SVOCs were detected in the remaining soil samples. The concentrations of the SVOCs in the samples collected from GP-1, GP-3, GP-6 and B-102 were below their respective NYSDEC Unrestricted Use/CP-51 SCOs.

Seven (7) SVOCs were detected in the sample collected from GP-4 (10-11) exceeding their respective NYSDEC Unrestricted Use/CP-51 SCO as follows:

[1] Unrestricted Use Soil Cleanup Objectives refer to: 6NYCRR Part 375, December 14, 2006, Table 375-6.8(a), & CP-51 Soil Cleanup Objectives refer to: CP-51/Soil Cleanup Guidance, October 21, 2010, Tables 2 & 3

- Benzo(a)anthracene was detected at a concentration of 21 ppm above the Unrestricted Use/CP-51 SCO of 1 ppm. It is noted that this concentration also exceeds the Industrial Use SCO of 11 ppm.
- Benzo(a)pyrene was detected at a concentration of 21 ppm above the Unrestricted Use/CP-51 SCO of 1 ppm. It is noted that this concentration also exceeds the Industrial Use SCO of 1.1 ppm.
- Benzo(b)fluoranthene was detected at a concentration of 22 ppm above the Unrestricted Use/CP-51 SCO of 1 ppm. It is noted that this concentration also exceeds the Industrial Use SCO of 11 ppm.
- Benzo(k)fluoranthene was detected at a concentration of 6.9 ppm above the Unrestricted Use/CP-51 SCO of 0.8 ppm. This concentration also exceeds the Restricted Residential SCO of 3.9 ppm.
- Chrysene was detected at a concentration of 20 ppm above the Unrestricted Use/CP-51 SCO of 1 ppm. This concentration also exceeds the Restricted Residential SCO of 3.9 ppm.
- Dibenzo(a,h)anthracene was detected at a concentration of 2.8 ppm above the Unrestricted Use/CP-51 SCO of 0.33 ppm. This concentration also exceeds the Industrial Use SCO of 1.1 ppm.
- Indeno(1,2,3-cd)pyrene was detected at a concentration of 10 ppm above the Unrestricted Use/CP-51 SCO of 0.5 ppm. This concentration also exceeds the Commercial Use SCO of 5.6 ppm.

Five (5) SVOCs were detected in the sample collected from GP-4 (15-16) exceeding their respective NYSDEC Unrestricted Use/CP-51 SCO as follows:

- Benzo(a)anthracene was detected at a concentration of 1.5 ppm above the Unrestricted Use/CP-51 SCO of 1 ppm. This concentration also exceeds the Residential and Restricted Residential Use SCOs of 1 ppm.
- Benzo(a)pyrene was detected at a concentration of 1.6 ppm above the Unrestricted Use/CP-51 SCO of 1 ppm. This concentration also exceeds the Industrial Use SCO of 1.1 ppm.
- Benzo(b)fluoranthene was detected at a concentration of 1.6 ppm above the Unrestricted Use/CP-51 SCO of 1 ppm. This concentration also exceeds the Residential and Restricted Residential Use SCOs of 1 ppm.

- Chrysene was detected at a concentration of 1.3 ppm above the Unrestricted Use/CP-51 SCO of 1 ppm. This concentration also exceeds the Residential Use SCO of 1 ppm.
- Indeno(1,2,3-cd)pyrene was detected at a concentration of 1 ppm above the Unrestricted Use/CP-51 SCO of 0.5 ppm. This concentration also exceeds the Residential and Restricted Residential Use SCOs of 0.5 ppm.

Five (5) SVOCs were detected in the sample collected from GP-5 exceeding their respective NYSDEC Unrestricted Use/CP-51 SCO as follows:

- Benzo(a)anthracene was detected at a concentration of 1.8 ppm above the Unrestricted Use/CP-51 SCO of 1 ppm. This concentration also exceeds the Residential and Restricted Residential Use SCOs of 1 ppm.
- Benzo(a)pyrene was detected at a concentration of 1.9 ppm above the Unrestricted Use/CP-51 SCO of 1 ppm. This concentration also exceeds the Industrial Use SCO of 1.1 ppm.
- Benzo(b)fluoranthene was detected at a concentration of 2.2 ppm above the Unrestricted Use/CP-51 SCO of 1 ppm. This concentration also exceeds the Residential and Restricted Residential Use SCOs of 1 ppm.
- Chrysene was detected at a concentration of 1.8 ppm above the Unrestricted Use/CP-51 SCO of 1 ppm. This concentration also exceeds the Residential Use SCO of 1 ppm.
- Indeno(1,2,3-cd)pyrene was detected at a concentration of 1.4 ppm above the Unrestricted Use/CP-51 SCO of 0.5 ppm. This concentration also exceeds the Residential and Restricted Residential Use SCOs of 0.5 ppm.

Metals

Up to 20 metals were detected in the soil samples submitted for laboratory analysis. Of those, copper, lead, mercury and zinc were detected in concentrations that exceeded their respective Unrestricted Use SCOs in two (2) or more samples summarized as follows:

Copper was detected in each of the soil samples collected from the borings ranging in concentrations from 14.3 ppm to 63.9 ppm. The concentrations exceeded the Unrestricted Use SCO of 50 ppm at two (2) locations: GP-1 at a concentration of 63.9 ppm and GP -5 at a concentration of 51.6 ppm.

Lead was detected in each of the soil samples collected from the borings ranging in concentrations of 33.2 ppm to 399 ppm. All but one (1) of the concentrations were above the Unrestricted Use SCO of 63 ppm. The highest concentration was detected in the sample collected from GP-4 (10-11). This concentration was noted to be just below the Residential and Restricted Residential Use SCOs of 400 ppm.

Mercury was detected in each of the soil samples ranging in concentrations of 0.075 ppm (estimated) to 30.9 ppm. The concentrations exceeded the Unrestricted Use SCO of 0.18 ppm at GP-1, GP-3, GP-4 (10-11) and GP-5. The highest concentration of mercury was detected at GP-4 (10-11) at a concentration of 30.9 ppm which also exceeds the Industrial Use SCO of 5.7 ppm.

Zinc was detected in each of the soil samples in concentrations ranging 48.3 ppm to 550 ppm with the samples from GP-4 (10-11), GP-5, GP-6 and B-102 exceeding the Unrestricted Use SCO of 109 ppm.

PCBs

PCBs were detected at an estimated concentration of 0.0103 ppm in the sample from GP-1. This concentration is below the Unrestricted Use of 0.1 ppm.

The results of the soil sampling are summarized in Table 4.1-1.

Full analytical results for the subsurface soil samples are presented in Appendix F.

4.2 Groundwater

The groundwater samples collected from MW-1, MW-3, MW-4 and MW-6 were analyzed for TCL/CP-51 VOCs by EPA Method 8260, CP-51 SVOCs by EPA Method 8270 and TAL metals. The sample from GP-1 was also analyzed for PCBs by EPA Method 8082.

VOCs

VOCs were not detected above the laboratory method detect limit in the groundwater samples collected from MW-1, MW-3 or MW-6.

Five (5) VOCs were detected in the groundwater samples collected from MW-4 with three (3) of the VOCs exceeding their groundwater standards as follows:

- n-Butylbenzene was detected at a concentration of 5.9 parts per billion (ppb) above the groundwater standard of 5 ppb.

- n-Propylbenzene was detected at a concentration of 12 ppb above the groundwater standard of 5 ppb.
- 1,2,4-Trimethylbenzene was detected at a concentration of 28 ppb above the groundwater standard of 5 ppb.

SVOCs

Four (4) SVOCs were detected in the sample collected from MW-1, with one (1) of the SVOCs detected above the groundwater guidance value as follows:

- Benzo(a)anthracene was detected at an estimated concentration of 0.03 ppb above the guidance value of 0.002 ppb.

Several SVOCs were detected in the samples collected from MW-3 and MW-4, with six (6) SVOCs detected above their respective groundwater standards/guidance values as follows:

- Benzo(a)anthracene was detected at estimated concentrations of 0.03 ppb and 0.05 ppb in the samples from MW-3 and MW-4 respectively, above the groundwater guidance value of 0.002 ppb.
- Benzo(a)pyrene was detected at an estimated concentrations of 0.02 ppb and 0.03 ppb in the samples from MW-3 and MW-4 respectively, above the groundwater standard of non-detect.
- Benzo(b)fluoranthene was detected at an estimated concentration of 0.04 ppb in both samples, above the guidance value of 0.002 ppb.
- Benzo(k)fluoranthene was detected at an estimated concentration of 0.01 ppb in both samples, above the guidance value of 0.002 ppb.
- Chrysene was detected at estimated concentrations of 0.02 ppb and 0.35 ppb in the samples from MW-3 and MW-4 respectively, above the guidance value of 0.002 ppb.
- Indeno(1,2,3-cd)pyrene was detected at an estimated concentration of 0.02 ppb in both samples, above the guidance value of 0.002 ppb.

SVOCs were not detected above the laboratory method detection limit in the sample collected from MW-6.

Metals

Up to 21 metals were detected in the groundwater samples submitted for laboratory analysis. Of those, iron, lead, manganese, selenium and sodium were detected in concentrations that exceeded their respective groundwater standards/guidance values in one (1) or more samples summarized as follows:

- Iron was detected in each of the groundwater samples ranging in concentrations from 586 ppb to 9,530 ppb above the groundwater standard of 300 ppb.
- Lead was detected in each of the groundwater samples exceeding the groundwater standard at one (1) location, MW-3, where it was detected at a concentration of 51.99 ppb above the groundwater standard of 25 ppb.
- Manganese was detected in each of the groundwater samples ranging in concentrations from 96.71 to 1,852 ppb with three (3) locations (MW-1, MW-3 and MW-4) exceeding the groundwater standard of 300 ppb.
- Selenium was detected in two (2) of the four (4) groundwater samples exceeding the groundwater standard in the sample from MW-1 at a concentration of 14 ppb as compared to the groundwater standard of 10 ppb.
- Sodium was detected in each of the groundwater samples ranging in concentrations from 83,400 to 354,000 ppb above the groundwater standard of 20,000 ppb.

PCBs

PCBs were not detected above the laboratory method detection limit in the sample from MW-1.

The results of the groundwater sampling are summarized in Table 4.2-1.

Full analytical results for the water samples are presented in Appendix G.

5.0 DISCUSSION OF EXCEEDANCES FROM PRIOR STUDIES

5.1 Remedial Investigation & Tank Closure Program Report September 2003

The Remedial Investigation & Tank Closure for Mohawk Honda, 728-756 State Street is documented in a report prepared by NETC dated September 22, 2003. The activities documented in the report were completed following a subsurface assessment at the facility in 2003. Of the addresses included in the report, it appears that 742 State Street was the subject of Soil Removal Area 1 (USTs 1 & 2) on the north/central portion of the parcel; Soil Removal Area 4 (UST 4), just west of Soil Removal Area 1; and Soil Removal Area 5 (where no UST was identified) on the northeastern portion of the parcel. Soil Removal Areas 2 and 3 were located on off-site parcels to the northwest of the subject property.

These activities were associated with Spill No. 0301751 which was issued a closed status on October 1, 2003, subsequent to the issuance of the Remedial Investigation & Tank Closure Report. Post excavation soil samples were collected following the removal of the impacted soils. Of the five (5) areas subject to soil removal activities two (2) of the locations reported exceedances of soil standards and were located within the bounds of the subject property as follows:

At Soil Removal Area 4 the following VOCs exceeded Unrestricted Use/CP-51 SCOs:

- Benzene was detected at a concentration of 0.172 ppm as compared to the Unrestricted Use/CP-51 SCO of 0.06 ppm.
- Toluene was detected at a concentration of 1.056 ppm as compared to the Unrestricted Use/CP-51 SCO of 0.7 ppm.
- Total xylenes were detected at a concentration of 1.948 ppm as compared to the Unrestricted Use/CP-51 SCO of 0.26 ppm.

At Soil Removal Area 5 the following SVOCs exceeded SCOs as follows:

- Benzo(a)anthracene was detected at a concentration of 2.975 ppm above the Residential and Restricted Residential Use SCOs of 1 ppm.
- Benzo(a)pyrene was detected at a concentration of 1.921 ppm above the Industrial Use SCO of 1.1 ppm.
- Benzo(b)fluoranthene was detected at a concentration of 3.592 ppm above the Residential and Restricted Residential Use SCOs of 1 ppm.

- Benzo(k)fluoranthene was detected at a concentration of 5.954 ppm above the Restricted Residential SCO of 3.9 ppm.
- Chrysene was detected at a concentration of 1.724 ppm above the Residential Use SCO of 1 ppm.
- Dibenzo(a,h)anthracene was detected at a concentration of 0.576 ppm above the Commercial Use SCOs of 0.56 ppm.

The Remedial Investigation & Tank Closure Report is included as a separate Exhibit to this report (Exhibit 1).

5.2 Phase II Environmental Site Assessment Report June 2023

The 2023 Phase II ESA report prepared by LaBella identified exceedances of standards, criteria and guidance values (SCGs) as summarized below:

Soil

At LaBella's B-1 location, advanced on the northern corner of the subject property proximate to State Street on the 742 State Street parcel, lead was detected at a concentration of 755 ppm exceeding the Residential and Restricted Residential SCOs of 400 ppm.

At LaBella's B-3 location, advanced on the southern portion of the 742 State Street parcel to the north of the subject property building, two (2) metals and six (6) SVOCs were detected at concentrations exceeding SCOs as follows:

- Lead was detected at a concentration of 198 ppm exceeding the Unrestricted Use SCO of 63 ppm.
- Mercury was detected at a concentration of 0.3 ppm exceeding the Unrestricted Use SCO of 0.18 ppm.
- Benzo(a)anthracene was detected at a concentration of 2.3 ppm above the Residential and Restricted Residential Use SCOs of 1 ppm.
- Benzo(a)pyrene was detected at a concentration of 2.5 ppm above the Industrial Use SCO of 1.1 ppm.
- Benzo(b)fluoranthene was detected at a concentration of 2.5 ppm above the Residential and Restricted Residential Use SCOs of 1 ppm.

- Benzo(k)fluoranthene was detected at a concentration of 0.88 ppm above the Unrestricted Use/CP-51 SCO of 0.8 ppm.
- Chrysene was detected at a concentration of 2.1 ppm above the Residential Use SCO of 1 ppm.
- Indeno(1,2,3-cd)pyrene was detected at a concentration of 1.7 ppm above the Residential and Restricted Residential Use SCOs of 0.5 ppm.

Groundwater

At LaBella's B-1 location, advanced on the northern corner of the subject property proximate to State Street on the 742 State Street parcel, lead was detected at a concentration of 1,310 ppb exceeding the groundwater standard of 25 ppb.

At LaBella's B-3 location, advanced on the southern portion of the 742 State Street parcel to the north of the subject property building five (5) metals exceeded their respective groundwater standards as follows:

- Arsenic was detected at a concentration of 34 ppb as compared to the groundwater standard of 25 ppb.
- Cadmium was detected at a concentration of 7 ppb as compared to the groundwater standard of 5 ppb.
- Chromium was detected at a concentration of 82 ppb as compared to the groundwater standard of 50 ppb.
- Lead was detected at a concentration of 1,870 as compared to the groundwater standard of 25 ppb.
- Mercury was detected at a concentration of 1.8 ppb as compared to the groundwater standard of 0.7 ppb.

At Labella's B-4 location, advanced on the 754 State Street parcel proximate to the suspect UST adjacent to the north of the subject property building, one (1) metal and five (5) VOCs were detected above groundwater standards as follows:

- Lead was detected at a concentration of 522 ppb as compared to the groundwater standard of 25 ppb.
- n-Butylbenzene was detected at a concentration of 6.0 parts ppb above the groundwater standard of 5 ppb.

- n-Propylbenzene was detected at a concentration of 47 ppb above the groundwater standard of 5 ppb.
- 1,2,4-Trimethylbenzene was detected at a concentration of 200 ppb above the groundwater standard of 5 ppb.
- Isopropylbenzene was detected at a concentration of 20 ppb above the groundwater standard of 5 ppb.
- sec-Butylbenzene was detected at a concentration of 6.6 ppb above the groundwater standard of 5 ppb.

The 2023 LaBella Phase II ESA report is included as a separate Exhibit to this report (Exhibit 2).

Figure 3 in Appendix A includes a summary of analytes in soils exceeding Unrestricted and Restricted-Residential Use SCOs relative to both the findings of this Phase II ESA and the two (2) prior investigations discussed above.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

A Phase II ESA has been conducted at the Schenectady 40 Anchor Site which included the completion of a GPR survey, and a subsurface investigation which included the advancement of six (6) soil borings of which four (4) were converted to monitoring wells; the collection of soil samples for field vapor screening and laboratory analysis; and the collection of groundwater samples for laboratory analysis.

Two (2) anomalies consistent with USTs were identified during the GPR survey. The first anomaly was identified on the northeastern portion of the subject property on the 742 State Street parcel. The anomaly measured approximately 13 feet long by approximately 5.5 feet wide. A linear anomaly was identified to the northwest of the first suspect UST, extending from the UST area to the northeast toward State Street. Although not confirmed, the linear anomaly is potentially associated with a supply line to a former pump island. The second anomaly was identified on the 754 State Street parcel to the north of the southwestern portion of the subject property building and measured approximately 30 feet long by approximately 9 feet wide. It is noted that a third anomaly, identified as a suspect UST in the LaBella Phase II ESA, was reported by GPRS to resemble a disturbance with varying soil densities potentially resembling a UST grave. Please note that the GPR survey is a field method used to identify anomalies which may or may not represent USTs, utility lines or other buried structures/vessels, and further, if anomalies are not identified such a result is not a guarantee that USTs or other features do not exist beneath the subject property.

The soils within the subject property and to the depths explored (up to 20 feet bgs) generally consisted of fine to coarse sand with silt and urban fill comprised of ash, brick, coal, concrete rubble, glass and slag. The PID readings for the soil samples collected from the borings were less than 1 ppm above background with the exception of three (3) sample intervals from GP-4 with readings up to 380.4 ppm. These samples also exhibited petrochemical type odors and staining. The sample with the highest PID reading from GP-4 (15-16 feet bgs) was submitted for laboratory analysis. GP-4 was advanced adjacent to the anomaly (suspect UST) on the 754 State Street parcel to the north of the southwestern portion of the subject property building. Although elevated PID readings were not recorded, a petrochemical type

odor was noted in the samples recovered from GP-3 from 4-8 feet bgs with the 4-5 foot interval exhibiting little black staining.

Groundwater was encountered from approximately 6.34 feet bgs to 13.24 feet bgs during groundwater sampling activities. Petrochemical type odors or sheens were not noted in the groundwater samples collected from MW-1, MW-3 or MW-6; however, a slight petrochemical odor and a slight sheen were observed during sample collection from MW-4.

Impacts to soils have been documented through various investigations at the subject property including post excavation samples for soil/UST removal activities conducted in 2003; the 2023 Phase II ESA conducted by LaBella, and as a function of this Phase II ESA. Impacts to soils appear to be related to a petroleum release at the suspect UST to the north of the southwestern portion of the subject property building as documented by VOCs above Unrestricted Use/CP-51 SCOs, and by the presence of fill materials on scattered portions of the subject property as documented by SVOCs and metals above Unrestricted Use SCOs. Select SVOCs and one (1) metal (mercury) are noted to exceed Industrial Use SCOs.

Similarly, impacts to groundwater have been documented through the LaBella Phase II ESA and as a function of this Phase II ESA. Petroleum related compounds were identified proximate to the suspect UST to the north of the southwestern portion of the subject property building. Metals and SVOCs were detected above groundwater standards/guidance values on various portions of the subject property.

6.2 Recommendations

As an active spill is listed for the subject property, this report should be submitted to Mr. Joshua Utberg of the NYSDEC (joshua.utberg@dec.ny.gov) for review and comment and to determine if additional investigation or remedial activities are required by NYSDEC.

At a minimum, the following are recommended:

- The presence of the suspect UST on the 754 State Street parcel adjacent to the north side of the southwestern portion of the subject property building should be confirmed, and if present, removed along with the known petroleum impacted soils and groundwater, as required by NYSDEC.

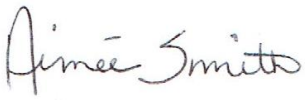
- The presence of the suspect UST on the northeastern portion of the subject property on the 742 State Street parcel should be confirmed, and if present, removed. Although petroleum impacted soil was not identified proximate to this UST during LaBella's Phase II ESA activities, there may be localized impacts which should be addressed during the removal of the UST. Additionally, the adjacent linear anomaly should be assessed, and if associated with a fuel line associated with the UST removed along with impacted soil, if any. If associated with a fuel line for the UST the termination point (i.e. potential former pump island) should also be assessed for evidence of impacts.
- The third anomaly area within the subject property on the north-central portion of the 742 State Street parcel should be assessed to determine if a UST is located within this area of the subject property, and if present, removed. As with the second anomaly area, impacts to soils were not identified during LaBella's Phase II ESA; however, if a UST is present, localized impacts to soil have the potential to be present and should be removed if encountered.
- VOCs above NYSDEC's Unrestricted Use/CP-51 SCOs were allowed to remain in place on the north-central portion of the subject property on the 742 State Street parcel following remedial activities in 2003. The associated NYSDEC spill number was issued a closed status not requiring these soils to be removed; however, if future development activities disturb these soils, they should be addressed at that time.
- Similarly, SVOCs above NYSDEC's Unrestricted Use/CP-51 SCOs were allowed to remain in place on the northeastern portion of the subject property on the 742 State Street parcel following remedial activities in 2003. The presence of similar concentrations of SVOCs were identified on various portions of the subject property as both a function of this Phase II ESA and LaBella's 2023 Phase II ESA and may be as a result of the fill materials which appear to be present throughout the subject property. In addition to SVOCs, select metals were also identified in elevated concentrations in soils. Consideration of the soil/fill will be necessary for future development activities due to the elevated concentrations of metals and SVOCs.
- Additionally, SVOCs and metals have been detected in groundwater above NYSDEC groundwater standard and guidance values, in addition to the VOCs

identified in the area of the suspect UST. Although some of the metals may be naturally occurring (iron, manganese and sodium) other metals present in groundwater may be related to the presence of the fill materials within the subject property. Consideration of the groundwater will be necessary for future development activities due to the elevated concentrations of metals and SVOCs.

It is understood that the subject property is being contemplated for the NYSDEC BCP. Remedial investigations and actions for the subject property will be prescribed through the BCP program.

The findings and conclusions of this Phase II ESA represent the site conditions as disclosed through the investigations performed at the time completed, and may not be representative of the entire site. No other warranties expressed or implied are made. If you have any questions regarding this report, please contact this office at (518) 786-7400.

Respectfully submitted,
C.T. MALE ASSOCIATES



Aimee Smith
Project Manager

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TABLES

TABLE 4.1-1: Summary of Subsurface Soil Sampling Results & Regulatory Values

TABLE 4.2-1: Summary of Groundwater Sampling Results & Regulatory Values

TABLE 4.1-1
SUMMARY OF SOIL SAMPLING RESULTS AND REGULATORY VALUES
PHASE II ENVIRONMENTAL SITE ASSESSMENT
SCHENECTADY 40 ANCHOR SITE

						SAMPLE ID	GP-1 13-16.5			GP-2 7-7.5			GP-3 4-5			GP-4 10-11			GP-4 15-16			GP-5 1-2			GP-6 0-2			B102_8-10		
						LAB ID	L2370406-01			L2370406-02			L2370406-03			L2370406-04			L2370406-05			L2370406-06			L2370406-07			L2373704-01		
						COLLECTION DATE	11/29/2023			11/29/2023			11/29/2023			11/29/2023			11/29/2023			11/29/2023			11/29/2023			12/13/2023		
ANALYTE	**NY-UNRES**	**NY-RESR**	**NY-RESRR**	**NY-RESC**	**NY-RESI**		Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL
VOLATILE ORGANICS BY EPA 5035																														
Toluene	0.7	100	100	500	1000		ND		0.001	ND		0.0013	ND		0.00097	ND		0.0015	0.042	J	0.056	ND		0.00092	ND		0.00094	-	-	-
Ethylbenzene	1	30	41	390	780		ND		0.001	ND		0.0013	ND		0.00097	ND		0.0015	0.029	J	0.056	ND		0.00092	ND		0.00094	-	-	-
p/m-Xylene	NS	NS	NS	NS	NS		ND		0.002	ND		0.0026	ND		0.0019	ND		0.003	0.08	J	0.11	ND		0.0018	ND		0.0019	-	-	-
o-Xylene	NS	NS	NS	NS	NS		ND		0.001	ND		0.0013	ND		0.00097	ND		0.0015	0.027	J	0.056	ND		0.00092	ND		0.00094	-	-	-
n-Butylbenzene	12	100	100	500	1000		ND		0.001	ND		0.0013	ND		0.00097	ND		0.0015	8.9		0.056	ND		0.00092	ND		0.00094	-	-	-
sec-Butylbenzene	11	100	100	500	1000		ND		0.001	ND		0.0013	ND		0.00097	ND		0.0015	3.1		0.056	ND		0.00092	ND		0.00094	-	-	-
tert-Butylbenzene	5.9	100	100	500	1000		ND		0.002	ND		0.0026	ND		0.0019	ND		0.003	0.077	J	0.11	ND		0.0018	ND		0.0019	-	-	-
Isopropylbenzene	NS	NS	NS	NS	NS		ND		0.001	ND		0.0013	ND		0.00097	ND		0.0015	1.4		0.056	ND		0.00092	ND		0.00094	-	-	-
p-Isopropyltoluene	NS	NS	NS	NS	NS		ND		0.001	ND		0.0013	ND		0.00097	ND		0.0015	0.056		0.056	ND		0.00092	ND		0.00094	-	-	-
Naphthalene	12	100	100	500	1000		ND		0.0041	ND		0.0051	ND		0.0039	0.0012	J	0.006	0.68		0.22	ND		0.0037	ND		0.0038	-	-	-
n-Propylbenzene	3.9	100	100	500	1000		ND		0.001	ND		0.0013	ND		0.00097	ND		0.0015	7		0.056	ND		0.00092	ND		0.00094	-	-	-
1,3,5-Trimethylbenzene	8.4	47	52	190	380		ND		0.002	ND		0.0026	ND		0.0019	ND		0.003	0.026	J	0.11	ND		0.0018	ND		0.0019	-	-	-
1,2,4-Trimethylbenzene	3.6	47	52	190	380		ND		0.002	ND		0.0026	ND		0.0019	ND		0.003	9.2		0.11	ND		0.0018	ND		0.0019	-	-	-
Cyclohexane	NS	NS	NS	NS	NS		ND		0.01	ND		0.013	ND		0.0097	ND		0.015	0.12	J	0.56	ND		0.0092	ND		0.0094	-	-	-
Methyl cyclohexane	NS	NS	NS	NS	NS		ND		0.0041	ND		0.0051	ND		0.0039	ND		0.006	0.28		0.22	ND		0.0037	ND		0.0038	-	-	-
SEMIVOLATILE ORGANICS BY GC/MS																														
Acenaphthene	20	100	100	500	1000		ND		0.15	ND		0.17	ND		0.15	2.4		1.7	0.13	J	0.15	0.041	J	0.14	ND		0.16	ND		0.15
Fluoranthene	100	100	100	500	1000		0.18		0.11	ND		0.13	0.26		0.11	46		1.2	3.1		0.11	2.6		0.11	0.079	J	0.12	0.084	J	0.11
Naphthalene	12	100	100	500	1000		ND		0.19	ND		0.22	ND		0.19	1.5	J	2.1	0.75		0.18	0.13	J	0.18	ND		0.2	ND		0.18
Benzo(a)anthracene	1	1	1	5.6	11		0.051	J	0.11	ND		0.13	0.092	J	0.11	21		1.2	1.5		0.11	1.8		0.11	0.041		0.12	0.04	J	0.11
Benzo(a)pyrene	1	1	1	1	1.1		0.061	J	0.15	ND		0.17	0.11	J	0.15	21		1.7	1.6		0.15	1.9		0.14	ND		0.16	ND		0.15
Benzo(b)fluoranthene	1	1	1	5.6	11		0.11		0.11	ND		0.13	0.16		0.11	22		1.2	1.6		0.11	2.2		0.11	0.056	J	0.12	0.054	J	0.11
Benzo(k)fluoranthene	0.8	1	3.9	56	110		0.031	J	0.11	ND		0.13	0.05	J	0.11	6.9		1.2	0.52		0.11	0.6		0.11	ND		0.12	ND		0.11
Chrysene	1	1	3.9	56	110		0.11		0.11	ND		0.13	0.14		0.11	20		1.2	1.3		0.11	1.8		0.11	0.045	J	0.12	0.036		0.011
Acenaphthylene	100	100	100	500	1000		ND		0.15	ND		0.17	ND		0.15	1.6	J	1.7	0.52		0.15	0.49		0.14	ND		0.16	ND		0.15
Anthracene	100	100	100	500	1000		ND		0.11	ND		0.13	ND		0.11	8.3		1.2	0.77		0.11	0.39		0.11	ND		0.12	ND		0.11
Benzo(ghi)perylene	100	100	100	500	1000		0.059	J	0.15	ND		0.17	0.085	J	0.15	12		1.7	0.95		0.15	1.3		0.14	0.047	J	0.16	0.028	J	0.15
Fluorene	30	100	100	500	1000		ND		0.19	ND		0.22	ND		0.19	3		2.1	0.37		0.18	0.064	J	0.18	ND		0.2	ND		0.18
Phenanthrene	100	100	100	500	1000		0.082	J	0.11	ND		0.13	0.093	J	0.11	34		1.2	2.3		0.11	0.79		0.11	0.051	J	0.12	0.026	J	0.11
Dibenzo(a,h)anthracene	0.33	0.33	0.33	0.56	1.1		ND		0.11	ND		0.13	ND		0.11	2.8		1.2	0.18		0.11	0.26		0.11	ND		0.12	ND		0.11
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	5.6	11		0.048	J	0.15	ND		0.17	0.076	J	0.15	10		1.7	1		0.15	1.4		0.14	0.038	J	0.16	0.032	J	0.15
Pyrene	100	100	100	500	1000		0.15		0.11	ND		0.13	0.21		0.11	45		1.2	2.9		0.11	3		0.11	0.068	J	0.12	0.075	J	0.11
POLYCHLORINATED BIPHENYLS BY GC																														
Aroclor 1254	0.1	1	1	1	25		0.0103	J	0.0552	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs, Total	0.1	1	1	1	25		0.0103	J	0.0552	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

All values are shown in mg/kg or parts per million.

Shaded values exceed their respective SCOs

Only the compounds that were detected are listed.

ND = Not Detected above the laboratory method detection limit

NS = No Standard

J = Estimated Value

NY-UNRES= New York NYCRR Part 375 New York Unrestricted use Criteria Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

NY-RESR = New York NYCRR Part 375 Residential Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

NY-RESRR = New York NYCRR Part 375 Restricted-Residential Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

NY-RESC = New York NYCRR Part 375 Commercial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

NY-RESI = New York NYCRR Part 375 Industrial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

TABLE 4.1-1
SUMMARY OF SOIL SAMPLING RESULTS AND REGULATORY VALUES
PHASE II ENVIRONMENTAL SITE ASSESSMENT
SCHENECTADY 40 ANCHOR SITE

						SAMPLE ID	GP-1 13-16.5			GP-2 7-7.5			GP-3 4-5			GP-4 10-11			GP-4 15-16			GP-5 1-2			GP-6 0-2			B102_8-10		
						LAB ID	L2370406-01			L2370406-02			L2370406-03			L2370406-04			L2370406-05			L2370406-06			L2370406-07			L2373704-01		
						COLLECTION DATE	11/29/2023			11/29/2023			11/29/2023			11/29/2023			11/29/2023			11/29/2023			11/29/2023			12/13/2023		
ANALYTE	NY-UNRES	NY-RESR	NY-RESRR	NY-RESC	NY-RESI		Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL
TOTAL METALS																														
Antimony, Total	NS	NS	NS	NS	NS		0.65	J	4.47	1.01	J	5.01	1.16	J	4.39	3.65	J	5.04	0.383	J	4.32	1.37	J	4.14	1.18	J	4.63	ND		4.19
Arsenic, Total	13	16	16	16	16		5.14		0.895	7.82		1	8.4		0.878	12.3		1.01	2.09		0.864	8.12		0.829	8.36		0.927	4.82		0.838
Barium, Total	350	350	400	400	10000		78.1		0.895	61.9		1	56.6		0.878	59.3		1.01	23.5		0.864	96.1		0.829	42.5		0.927	56.4		0.838
Beryllium, Total	7.2	14	72	590	2700		0.453		0.447	0.982		0.501	0.463		0.439	0.457	J	0.504	0.327	J	0.432	0.456		0.414	0.466		0.463	0.261	J	0.419
Cadmium, Total	2.5	2.5	4.3	9.3	60		0.14	J	0.895	0.14	J	1	0.324	J	0.878	1.29		1.01	0.105	J	0.864	0.309	J	0.829	0.367	J	0.927	0.379	J	0.838
Calcium, Total	NS	NS	NS	NS	NS		32600		8.95	4220		10	43400		8.78	5950		10.1	5460		8.64	13000		8.29	104000		9.27	12700		8.38
Chromium, Total	NS	NS	NS	NS	NS		9.01		0.895	10.5		1	12		0.878	8.43		1.01	5.52		0.864	8.11		0.829	16.3		0.927	5.63		0.838
Cobalt, Total	NS	NS	NS	NS	NS		4.26		1.79	8.54		2	6.45		1.76	5.21		2.02	3.1		1.73	4.93		1.66	11.8		1.85	3.38		0.838
Copper, Total	50	270	270	270	10000		63.9		0.895	31.1		1	25.8		0.878	48.1		1.01	9.77		0.864	51.6		0.829	30.6		0.927	14.3		0.838
Iron, Total	NS	NS	NS	NS	NS		10900		4.47	12200		5.01	14500		4.39	19300		5.04	9480		4.32	13300		4.14	26700		46.3	10100		4.19
Lead, Total	63	400	400	1000	3900		90.3		4.47	103		5.01	148		4.39	399		5.04	33.2		4.32	249		4.14	101		4.63	99.6		4.19
Magnesium, Total	NS	NS	NS	NS	NS		4030		8.95	967		10	11800		8.78	1040		10.1	1800		8.64	1840		8.29	12400		9.27	2890		8.38
Manganese, Total	1600	2000	2000	10000	10000		235		0.895	284		1	328		0.878	156		1.01	143		0.864	187		0.829	447		0.927	206		0.838
Mercury, Total	0.18	0.81	0.81	2.8	5.7		0.183		0.077	0.134		0.091	0.288		0.077	30.9		0.903	0.075	J	0.077	0.739		0.072	0.126		0.078	0.167		0.071
Nickel, Total	30	140	310	310	10000		9.31		2.24	17.7		2.5	14.7		2.2	10.7		2.52	6.86		2.16	10.4		2.07	29.4		2.32	7.96		2.1
Potassium, Total	NS	NS	NS	NS	NS		545		224	628		250	544		220	323		252	256		216	441		207	611		232	317		210
Selenium, Total	3.9	36	180	1500	6800		ND		1.79	ND		2	0.863	J	1.76	0.709	J	2.02	0.406	J	1.73	0.356	J	1.66	ND		1.85	0.247	J	1.68
Sodium, Total	NS	NS	NS	NS	NS		420		179	236		200	272		176	134	J	202	55.6	J	173	206		166	69.5	J	185	286		168
Vanadium, Total	NS	NS	NS	NS	NS		17.9		0.895	22.4		1	15.7		0.878	13.9		1.01	11.3		0.864	19.3		0.829	18.1		0.927	10.1		0.838
Zinc, Total	109	2200	10000	10000	10000		64.2		4.47	75.2		5.01	82.2		4.39	550		5.04	48.3		4.32	178		4.14	110		4.63	109		4.19

All values are shown in mg/kg or parts per million.
Shaded values exceed their respective SCOs
Only the compounds that were detected are listed.
ND = Not Detected above the laboratory method detection limit
NS = No Standard
J = Estimated Value
NY-UNRES= New York NYCRR Part 375 New York Unrestricted use Criteria Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.
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NY-RESRR = New York NYCRR Part 375 Restricted-Residential Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.
NY-RESC = New York NYCRR Part 375 Commercial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.
NY-RESI = New York NYCRR Part 375 Industrial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

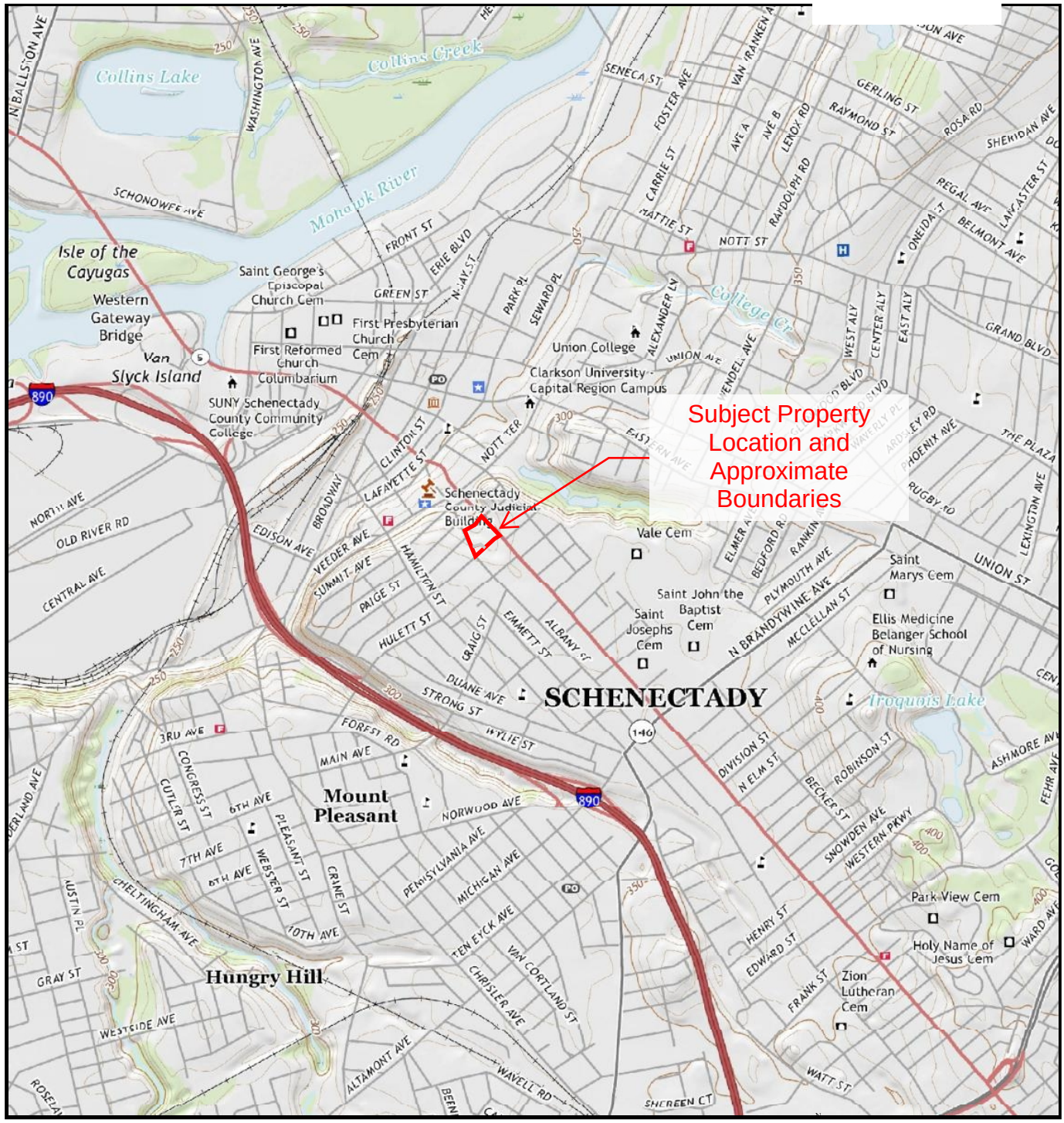
TABLE 4.2-1
GROUNDWATER RESULTS AND REGULATORY VALUES
PHASE II ENVIRONMENTAL SITE ASSESSMENT
SCHENECTADY ANCOR 40 SITE

	SAMPLE ID:	TRIP BLANK			MW-1			MW-3			MW-4			MW-6		
	LAB ID:	L2370570-01			L2370570-02			L2370570-03			L2370570-04			L2370570-05		
	COLLECTION DATE:	11/30/2023			11/30/2023			11/30/2023			11/30/2023			11/30/2023		
ANALYTE	**NY-AWQS**	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL
VOLATILE ORGANICS BY GC/MS																
n-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	5.9		2.5	ND		2.5
sec-Butylbenzene	5	ND		2.5	ND		2.5	ND		2.5	4.8		2.5	ND		2.5
Isopropylbenzene	5	ND		2.5	ND		2.5	ND		2.5	3.8		2.5	ND		2.5
n-Propylbenzene	5	ND		2.5	ND		2.5	ND		2.5	12		2.5	ND		2.5
1,2,4-Trimethylbenzene	5	ND		2.5	ND		2.5	ND		2.5	28		2.5	ND		2.5
SEMIVOLATILE ORGANICS BY GC/MS-SIM																
Acenaphthene	20 (GV)	-		-	0.02	J	0.1	ND		0.1	0.13		0.1	ND		0.1
Fluoranthene	50 (GV)	-		-	ND		0.1	0.06	J	0.1	0.2		0.1	ND		0.1
Naphthalene	10 (GV)	-		-	ND		0.1	ND		0.1	0.15		0.1	ND		0.1
Benzo(a)anthracene	0.002 (GV)	-		-	0.03	J	0.1	0.03	J	0.1	0.05	J	0.1	ND		0.1
Benzo(a)pyrene	0	-		-	ND		0.1	0.02	J	0.1	0.03	J	0.1	ND		0.1
Benzo(b)fluoranthene	0.002 (GV)	-		-	ND		0.1	0.04	J	0.1	0.04	J	0.1	ND		0.1
Benzo(k)fluoranthene	0.002 (GV)	-		-	ND		0.1	0.01	J	0.1	0.01	J	0.1	ND		0.1
Chrysene	0.002 (GV)	-		-	ND		0.1	0.02	J	0.1	0.03	J	0.1	ND		0.1
Acenaphthylene	NS	-		-	0.02	J	0.1	ND		0.1	0.05	J	0.1	ND		0.1
Anthracene	50 (GV)	-		-	ND		0.1	ND		0.1	0.06	J	0.1	ND		0.1
Benzo(ghi)perylene	NS	-		-	ND		0.1	0.02	J	0.1	0.02	J	0.1	ND		0.1
Fluorene	50 (GV)	-		-	0.02	J	0.1	ND		0.1	0.11		0.1	ND		0.1
Phenanthrene	50 (GV)	-		-	ND		0.1	0.04	J	0.1	0.34		0.1	ND		0.1
Indeno(1,2,3-cd)pyrene	0.002 (GV)	-		-	ND		0.1	0.02	J	0.1	0.02	J	0.1	ND		0.1
Pyrene	50 (GV)	-		-	ND		0.1	0.05	J	0.1	0.15		0.1	ND		0.1
POLYCHLORINATED BIPHENYLS BY GC (not detected above the laboratory method detection limit (analyzed for MW-1)																
TOTAL METALS																
Aluminum, Total	NS	-		-	3050		10	3860		10	892		10	192		10
Antimony, Total	3	-		-	ND		4	0.54	J	4	ND		4	ND		4
Arsenic, Total	25	-		-	4.27		0.5	5.26		0.5	5.03		0.5	0.53		0.5
Barium, Total	1000	-		-	116.6		0.5	100.2		0.5	59.76		0.5	31.95		0.5
Beryllium, Total	3 (GV)	-		-	0.36	J	0.5	0.43	J	0.5	ND		0.5	ND		0.5
Cadmium, Total	5	-		-	0.2		0.2	0.15	J	0.2	ND		0.2	ND		0.2
Calcium, Total	NS	-		-	207000		100	153000		100	138000		100	120000		100
Chromium, Total	50	-		-	6.42		1	6.26		1	1.29		1	1.04		1
Cobalt, Total	NS	-		-	5.67		0.5	4.54		0.5	1.71		0.5	0.74		0.5
Copper, Total	200	-		-	15.18		1	20.87		1	3.71		1	1.11		1
Iron, Total	300	-		-	9440		50	9530		50	4710		50	586		50
Lead, Total	25	-		-	18.29		1	51.99		1	20.67		1	0.98	J	1
Magnesium, Total	35000 (GV)	-		-	24300		70	22000		70	11700		70	18300		70
Manganese, Total	300	-		-	599.8		1	529.8		1	1852		1	96.74		1
Mercury, Total	0.7	-		-	ND		0.2	0.22		0.2	ND		0.2	ND		0.2
Nickel, Total	100	-		-	8.2		2	8.6		2	1.93	J	2	1.24	J	2
Potassium, Total	NS	-		-	3750		100	5490		100	5470		100	6340		100
Selenium, Total	10	-		-	14		5	9.53		5	ND		5	ND		5
Sodium, Total	20000	-		-	271000		1000	354000		1000	83400		100	263000		1000
Vanadium, Total	NS	-		-	9.18		5	10.23		5	2.57	J	5	ND		5
Zinc, Total	2000 (GV)	-		-	37.28		10	56.7		10	15.74		10	5.56	J	10

Notes:
Results are shown in ug/l (microgram per liter) or parts per billion.
Shaded values denote exceedance of groundwater standard or guidance value.
Only those compounds detected are shown.
GV = Guidance Value
NS = No Standard or Guidance Value
ND = Not detected above the laboratory method detection limit
J = Estimated value
*TOGS 1.1.1 Ambient Water Quality Standards & Guidance Values & Groundwater Effluent Limitations, NYSDEC, June 1998 & Addendums April 2000 & June 2004

APPENDIX A

Figures/Maps



MAP REFERENCE
United States Geological Survey
7.5 Minute Series Topographic Map
Quadrangle: Schenectady, NY
Date: 2019

N

C.T.MALE ASSOCIATES
ENGINEERING, SURVEYING, ARCHITECTURE
LANDSCAPE ARCHITECTURE & GEOLOGY, D.P.C.

50 CENTURY HILL DRIVE
LATHAM, NY 12110

FIGURE 1 - SUBJECT PROPERTY LOCATION MAP

CITY OF SCHENECTADY	SCHENECTADY COUNTY, NY
SCALE: 1:24,000±	The locations and features depicted on this map are approximate and do not represent an actual survey.
DRAFTER: AS	
PROJECT No.: 23.3588	

Figure 2 - Sample Location Plan



LEGEND:

GP-1/MW-1 — Approximate Location and ID of Geoprobe Soil Boring Location Converted to a Monitoring Well

GP-2 — Approximate Location and ID of Geoprobe Soil Boring

B-102 — Approximate Location and ID of Geotechnical Soil Boring (only the boring sampled for the Phase II ESA Shown)

1:1,317

0 0.01 0.01 0.03 mi

0 0.01 0.03 0.05 km

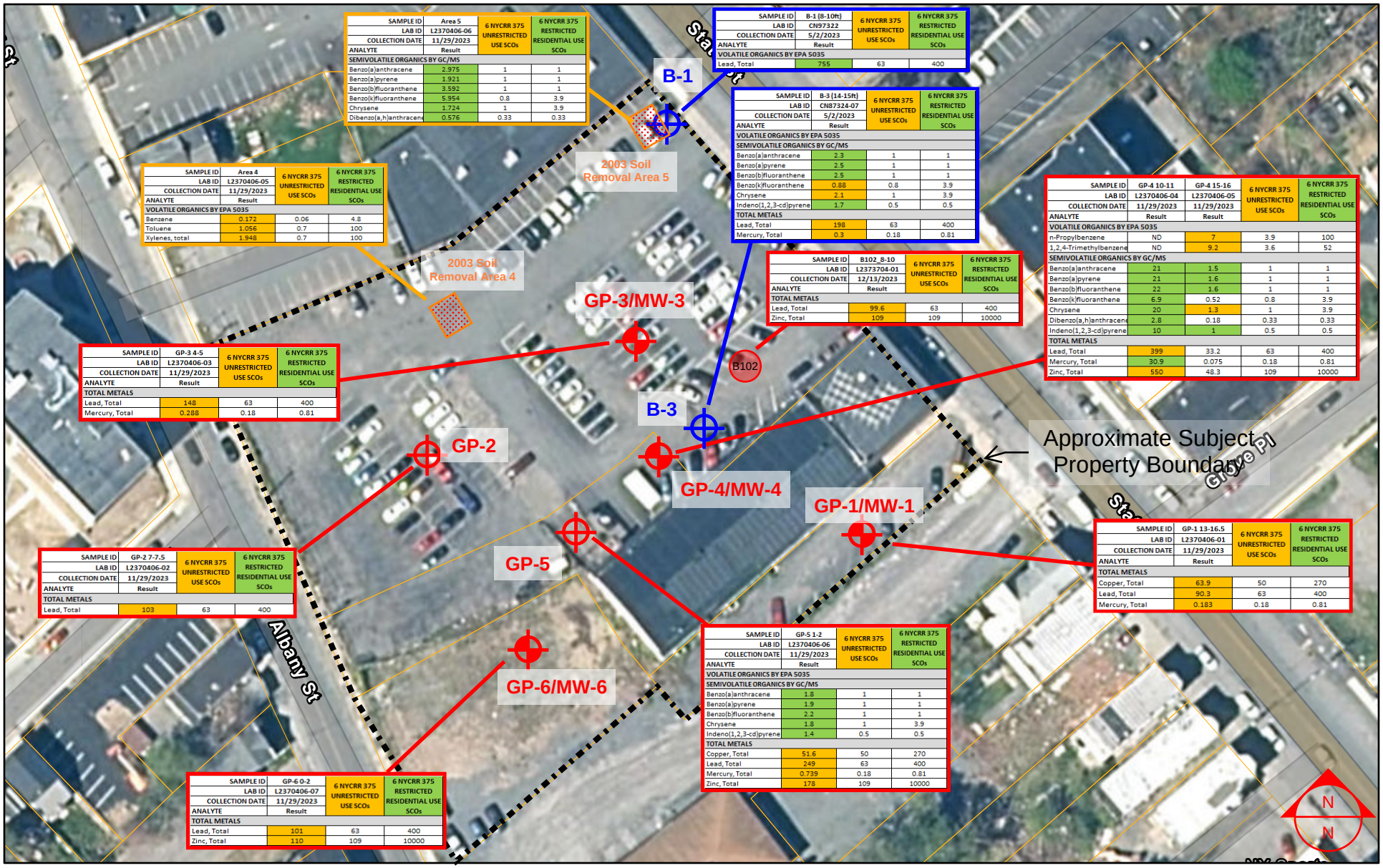
mmunity Maps Contributors, © OpenStreetMap, Microsoft, Esri, armin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA,

No Author

d as is. We make no warranties or guarantees, expressed or implied.

FIGURE 3
ANALYTES IN SOILS
EXCEEDING UNRESTRICTED AND RESTRICTED-RESIDENTIA REPORT 3 JP OBJECTIVES

ATTACHMENT 14



SAMPLE ID	Area 5	6 NYCRR 375 UNRESTRICTED USE SCOs	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2370406-06		
COLLECTION DATE	11/29/2023		
ANALYTE	Result		
SEMIVOLATILE ORGANICS BY GC/MS			
Benzo(a)anthracene	2.975	1	1
Benzo(a)pyrene	1.921	1	1
Benzo(b)fluoranthene	3.592	1	1
Benzo(k)fluoranthene	5.954	0.8	3.9
Chrysene	1.724	1	3.9
Dibenzo(a,h)anthracene	0.576	0.33	0.33

SAMPLE ID	B-1 (8-10ft)	6 NYCRR 375 UNRESTRICTED USE SCOs	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	CN97322		
COLLECTION DATE	5/2/2023		
ANALYTE	Result		
VOLATILE ORGANICS BY EPA 5035			
Lead, Total	755	63	400

SAMPLE ID	B-3 (14-15ft)	6 NYCRR 375 UNRESTRICTED USE SCOs	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	CN87324-07		
COLLECTION DATE	5/2/2023		
ANALYTE	Result		
VOLATILE ORGANICS BY EPA 5035			
SEMIVOLATILE ORGANICS BY GC/MS			
Benzo(a)anthracene	2.3	1	1
Benzo(a)pyrene	2.5	1	1
Benzo(b)fluoranthene	2.5	1	1
Benzo(k)fluoranthene	0.88	0.8	3.9
Chrysene	2.1	1	3.9
Indeno(1,2,3-cd)pyrene	1.7	0.5	0.5
TOTAL METALS			
Lead, Total	198	63	400
Mercury, Total	0.3	0.18	0.81

SAMPLE ID	Area 4	6 NYCRR 375 UNRESTRICTED USE SCOs	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2370406-05		
COLLECTION DATE	11/29/2023		
ANALYTE	Result		
VOLATILE ORGANICS BY EPA 5035			
Benzene	0.172	0.06	4.8
Toluene	1.056	0.7	100
Xylenes, total	1.948	0.7	100

SAMPLE ID	B102_8-10	6 NYCRR 375 UNRESTRICTED USE SCOs	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2373704-01		
COLLECTION DATE	12/13/2023		
ANALYTE	Result		
TOTAL METALS			
Lead, Total	99.6	63	400
Zinc, Total	109	109	10000

SAMPLE ID	GP-4 10-11	GP-4 15-16	6 NYCRR 375 UNRESTRICTED USE SCOs	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2370406-04	L2370406-05		
COLLECTION DATE	11/29/2023	11/29/2023		
ANALYTE	Result	Result		
VOLATILE ORGANICS BY EPA 5035				
n-Propylbenzene	ND	7	3.9	100
1,2,4-Trimethylbenzene	ND	9.2	3.6	52
SEMIVOLATILE ORGANICS BY GC/MS				
Benzo(a)anthracene	21	1.5	1	1
Benzo(a)pyrene	21	1.6	1	1
Benzo(b)fluoranthene	22	1.6	1	1
Benzo(k)fluoranthene	6.9	0.52	0.8	3.9
Chrysene	20	1.3	1	3.9
Dibenzo(a,h)anthracene	2.8	0.18	0.33	0.33
Indeno(1,2,3-cd)pyrene	10	1	0.5	0.5
TOTAL METALS				
Lead, Total	399	33.2	63	400
Mercury, Total	30.9	0.075	0.18	0.81
Zinc, Total	550	48.3	109	10000

SAMPLE ID	GP-3 4-5	6 NYCRR 375 UNRESTRICTED USE SCOs	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2370406-03		
COLLECTION DATE	11/29/2023		
ANALYTE	Result		
TOTAL METALS			
Lead, Total	148	63	400
Mercury, Total	0.288	0.18	0.81

SAMPLE ID	GP-1 13-16.5	6 NYCRR 375 UNRESTRICTED USE SCOs	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2370406-01		
COLLECTION DATE	11/29/2023		
ANALYTE	Result		
TOTAL METALS			
Copper, Total	63.9	50	270
Lead, Total	90.3	63	400
Mercury, Total	0.183	0.18	0.81

SAMPLE ID	GP-2 7-7.5	6 NYCRR 375 UNRESTRICTED USE SCOs	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2370406-02		
COLLECTION DATE	11/29/2023		
ANALYTE	Result		
TOTAL METALS			
Lead, Total	103	63	400

SAMPLE ID	GP-5 1-2	6 NYCRR 375 UNRESTRICTED USE SCOs	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2370406-06		
COLLECTION DATE	11/29/2023		
ANALYTE	Result		
VOLATILE ORGANICS BY EPA 5035			
SEMIVOLATILE ORGANICS BY GC/MS			
Benzo(a)anthracene	1.8	1	1
Benzo(a)pyrene	1.9	1	1
Benzo(b)fluoranthene	2.2	1	1
Chrysene	1.8	1	3.9
Indeno(1,2,3-cd)pyrene	1.4	0.5	0.5
TOTAL METALS			
Copper, Total	51.6	50	270
Lead, Total	249	63	400
Mercury, Total	0.739	0.18	0.81
Zinc, Total	178	109	10000

SAMPLE ID	GP-6 0-2	6 NYCRR 375 UNRESTRICTED USE SCOs	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2370406-07		
COLLECTION DATE	11/29/2023		
ANALYTE	Result		
TOTAL METALS			
Lead, Total	101	63	400
Zinc, Total	110	109	10000

LEGEND

- GP-1/MW-1 — Approximate Location and ID of Geoprobe Soil Boring Location Converted to a Monitoring Well
- GP-2 — Approximate Location and ID of Geoprobe Soil Boring
- B102 — Approximate Location and ID of Geotechnical Soil Boring (only the boring sampled for the Phase II ESA Shown)
- B-3 — Approximate Location and ID of Soil Boring Advanced as a function of LaBella's Phase II ESA
- Approximate Location of 2003 Soil Removal Area

1:1,317

0 0.01 0.01 0.03 mi

0 0.01 0.03 0.05 km

APPENDIX B

Ground Penetrating Radar Survey Report

Summary of Underground Utility Locating for Soil Borings Summary of Scanning for Underground Storage Tanks (USTs)

Prepared For: CT Male Associates

Prepared By:
Jeffrey Lail
jeffrey.lail@gprsinc.com
Subsurface Consultant -Upstate NY
(845) 475-1107

November 6, 2023

November 6, 2023

CT Male Associates
Attn: Aimee Smith
Site: 756 State St. Schenectady, NY

We appreciate the opportunity to provide this report for our work completed on November 6, 2023.

PURPOSE

The purpose of the project was to search for underground utilities within a radius of approximately 5' around each proposed boring location. The scope of work consisted of 6 locations. The client marked the desired locations prior to our scanning and our markings were then placed onto the surface using spray paint.

The purpose of this project was to search for any suspected underground storage tanks (USTs) or suspected UST-related piping/anomalies remaining on the property. The scope of work consisted of 2 location(s) measuring approximately 5000 ft^2. The interiors of buildings were excluded from the scope of this project. The client marked the desired locations prior to our scanning and our markings were then placed onto the surface using spray paint.

EQUIPMENT

- **Underground Scanning GPR Antenna**. The antenna with frequencies ranging from 250 MHz-450 MHz is mounted in a stroller frame which rolls over the surface. The surface needs to be reasonably smooth and unobstructed in order to obtain readable scans. Obstructions such as curbs, landscaping, and vegetation will limit the feasibility of GPR. The data is displayed on a screen and marked in the field in real time. The total depth achieved can be as much as 8' or more with this antenna but can vary widely depending on the types of materials being scanned through. Some soil types such as clay may limit maximum depths to 3' or less. As depth increases, targets must be larger in order to be detected and non-metallic targets can be especially difficult to locate. Depths provided should always be treated as estimates as their accuracy can be affected by multiple factors. For more information, please visit: Link
- **Electromagnetic Pipe Locator**. The EM locator can passively detect the electromagnetic fields from live AC power or from radio signals travelling along some conductive utilities. It can also be used in conjunction with a transmitter to connect directly to accessible, metallic pipes or tracer wires. A current is sent through the pipe or tracer wire at a specific frequency and the resulting EM field can then be detected by the receiver. A utility's ability to be located depends on a variety of factors including access to the utility, conductivity, grounding, interference from other fields, and many others. Depths provided should always be treated as estimates as their accuracy can be affected by multiple factors. For more information, please visit: Link
- **GPS**. This handheld GPS unit offers accuracy down to 4 inches; however, the accuracy will depend on the satellite environment and obstructions and should not be considered to be survey-grade. Features can be collected as points, lines, or areas and then exported into Google Earth or overlaid on a CAD drawing. For more information, please visit: Link

PROCESS

The process typically begins with using the EM pipe locator to locate pipes or utilities throughout the scan area. First, the transmitter is used to connect to and trace any visible risers, tracer wires, or accessible, conductive utilities provided that there is an exposed, metallic surface. The areas are then swept with the receiver to detect live power or radio frequency signals. Locations and depths are painted or flagged on the surface. Depths cannot always be provided depending on the location method and can be prone to error.

Initial GPR scans were then collected in order to evaluate the data and calibrate the equipment. Based on these findings, a scanning strategy is formed, typically consisting of scanning the entire area in a grid with 5-foot scan spacing in order to locate any potential utilities that were not found with the pipe locator. The GPR data is viewed in real time and anomalies in the data are located and marked on the surface along with their depths using spray paint, pin flags, etc. A higher frequency concrete scanning antenna is typically used for locations that are placed on reinforced concrete.

The EM pipe locator was used to connect to accessible, traceable pipes that may be tank-related such as vent pipes or product lines. A current is induced onto the pipe which creates an electromagnetic field that can be traced using the receiver. We can then attempt to trace these pipes to their origin or end point and paint or flag their locations.

Initial GPR scans were collected in order to evaluate the data and calibrate the equipment. Based on these findings, a scanning strategy is formed, consisting of scanning the entire area in a grid with 5-foot scan spacing in order to locate any potential UST's that may remain at the site. The GPR data is viewed in real time and anomalies in the data were located and marked on the surface along with their depths using spray paint. Relevant scan examples were saved and will be provided in this report.

LIMITATIONS

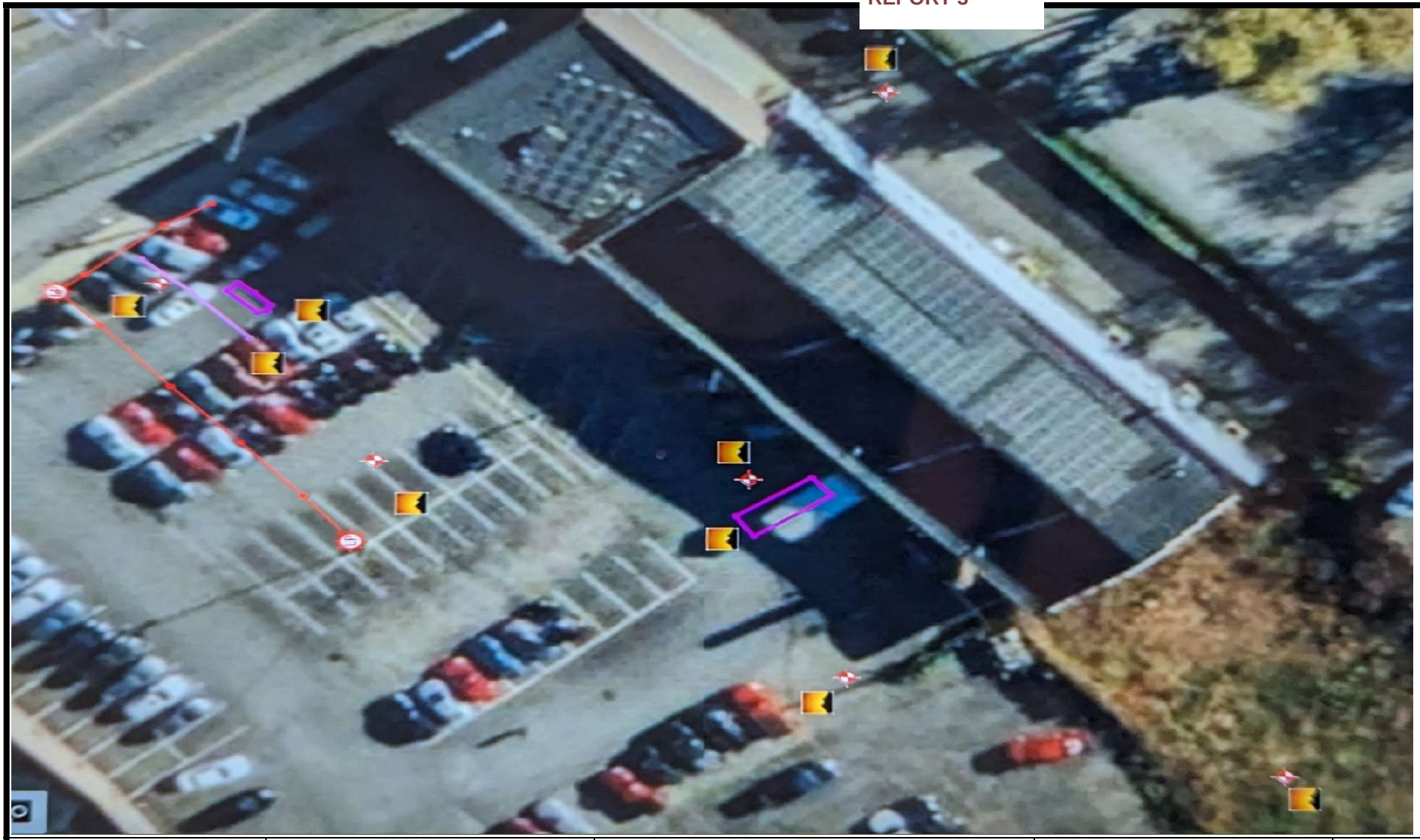
Please keep in mind that there are limitations to any subsurface investigation. The equipment may not achieve maximum effectiveness due to soil conditions, above ground obstructions, reinforced concrete, and a variety of other factors. No subsurface investigation or equipment can provide a complete image of what lies below. Our results should always be used in conjunction with as many methods as possible including consulting existing plans and drawings, exploratory excavation or potholing, visual inspection of above-ground features, and utilization of services such as One Call/811. Depths are dependent on the dielectric of the materials being scanned so depth accuracy can vary throughout a site. Relevant scan examples were saved and will be provided in this report.

Please keep in mind that there are limitations to any subsurface investigation. The equipment may not achieve maximum effectiveness due to soil conditions, above ground obstructions, reinforced concrete, and a variety of other factors. No subsurface investigation or equipment can provide a complete image of what lies below. Our results should always be used in conjunction with as many methods as possible including consulting existing plans and drawings, exploratory excavation or potholing, visual inspection of above-ground features, and utilization of services such as One Call/811. Depths are dependent on many factors so depth accuracy can vary throughout a site and should be treated as estimates only. Relevant scan examples were saved and will be provided in this report.

FINDINGS

The subsurface conditions at the time of the scanning allowed for maximum GPR depth penetration of 10 feet in most areas. Multiple utilities were able to be located and were either identified by type or marked as an unknown. Utilities that were able to be identified by type include electric. Unknowns marked within the scope of work may represent utilities, but they could not be traced to a termination point or identifying structure. The following pages will provide further explanation of the findings.

The subsurface conditions at the time of the scanning allowed for maximum GPR depth penetration of 10 feet in most areas. Multiple utilities were observed during the scanning; however, utility locating was not part of the scope of this project. The equipment and methods used did detect reactions from potential UST's. The following pages will provide further explanation of the findings.



Prepared for: 'CT Male Associates
Prepared By: Jeffrey Lail
Date of Scanning: 11-6-2023

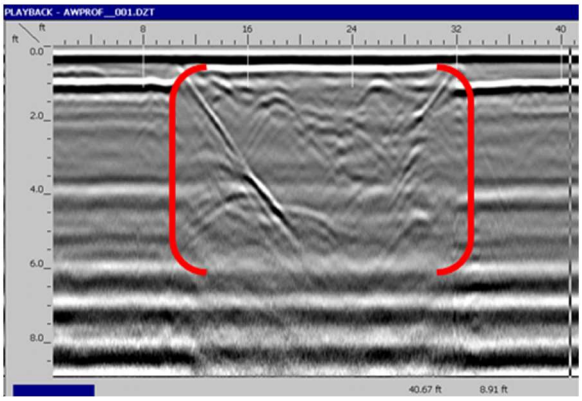
Terms and Conditions
GPRS does not provide land survey or civil engineering data collection or documentation. This is provided as a reference map of the field markings and is not survey-grade.

LEGEND

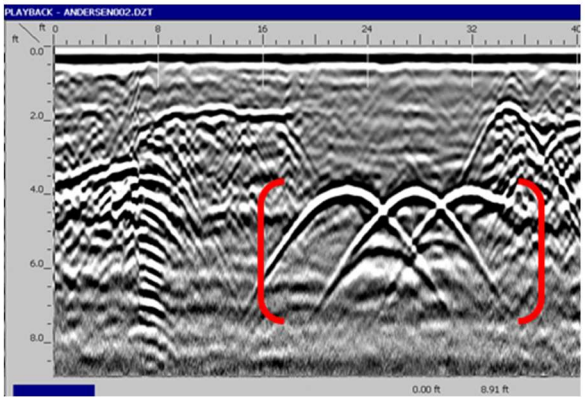
	ELECTRIC		SANITARY
	WATER		STORM
	COMM		UNKNOWN
	GAS		

756 State St. Schenectady, NY

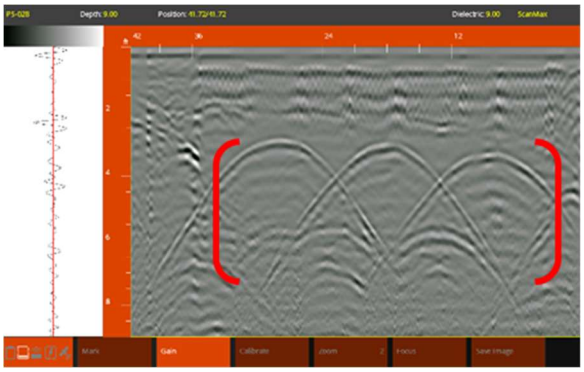
Prepared by:



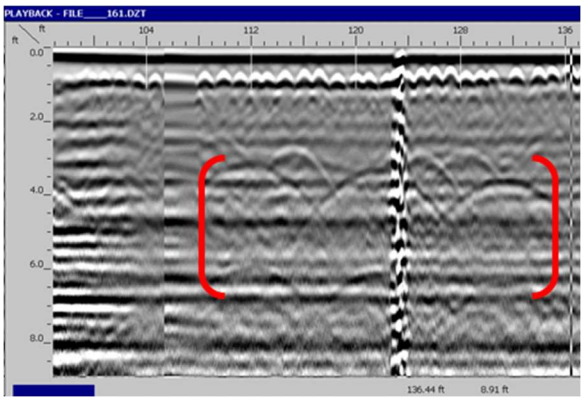
Sample GPR data screenshot showing a possible former tank pit or excavation. The change in the data from the excavation is apparent but GPR cannot determine whether this is due to a tank removal or whether tanks may still exist beyond the maximum depth penetration of the GPR signal.



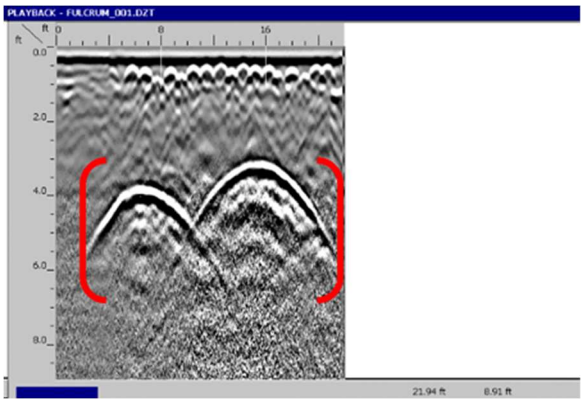
Sample GPR data screenshot showing three reactions from probable USTs. The diameters cannot be determined from these hyperbolas but they can be seen to be larger than a reaction from a typical utility.



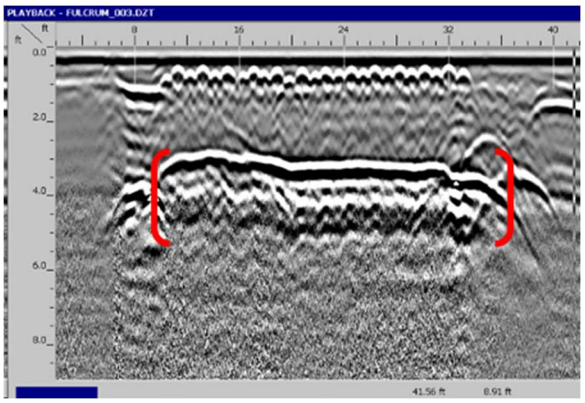
Sample GPR data screenshot showing three reactions from known USTs at an active fueling station. The concrete above the USTs is reinforced with wire mesh.



Sample GPR data screenshot showing three reactions from known USTs at an active fueling station. These USTs are non-metallic and therefore have a weaker reflection that is more difficult and sometimes impossible to identify in the GPR data.



Sample GPR data screenshot showing two potential USTs. These reactions are larger than a typical utility but large utilities can look identical to a UST.



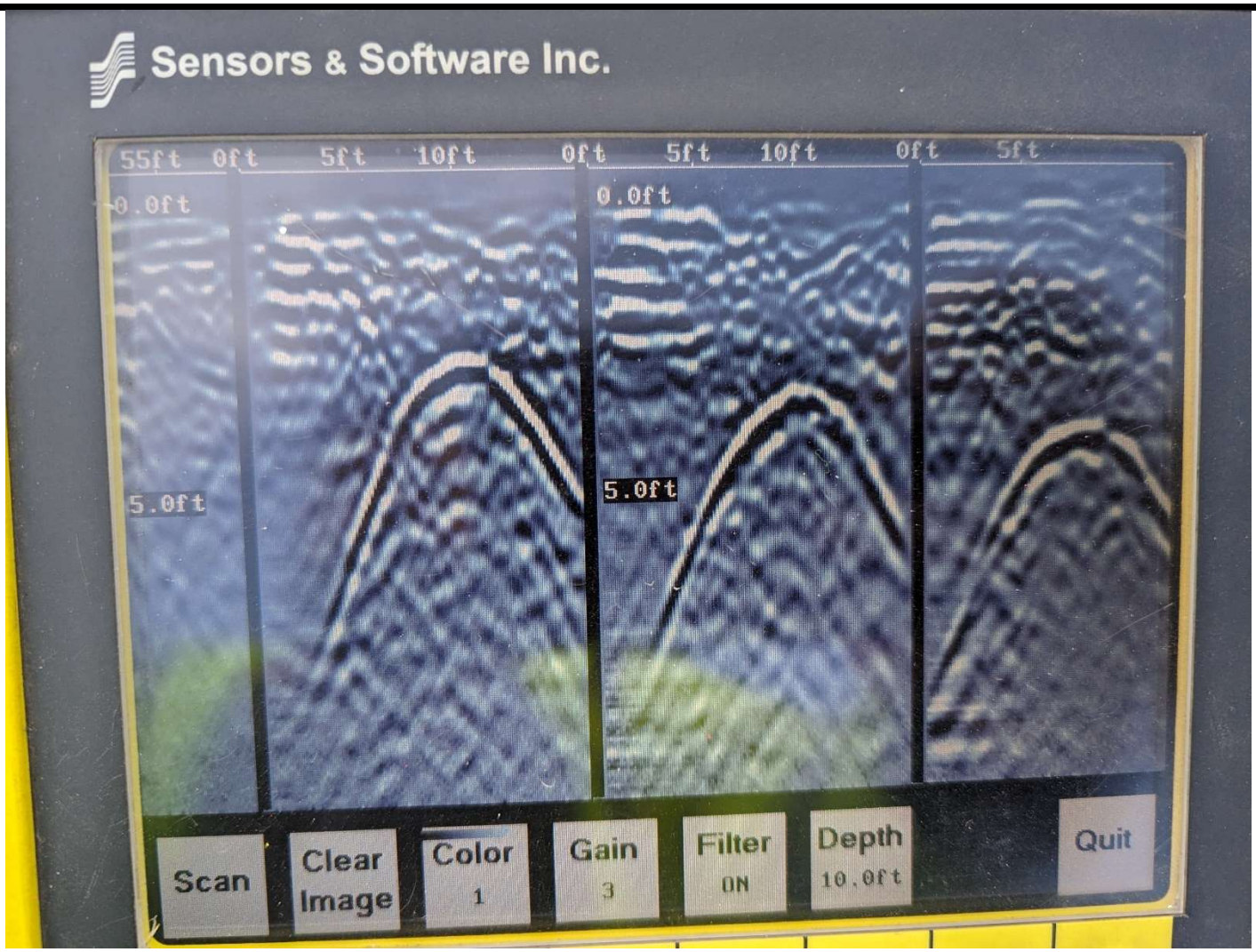
Sample GPR data screenshot showing a scan collected parallel along the top one of the suspected USTs shown in the data to the left. A parallel scan is used to determine a clear beginning and end to the reaction to the reaction which is an indicator of a UST and to determine an approximate length.

Sample Data Screenshots. (Not taken from this project)	Location: previously collected from various sites	GPRS

GPR data indicating the presence of the first suspected UST



Second suspected UST location with an approximate depth of 2.5 – 5 feet. (Sloped ground resulted in the tank being at greater depth at the top of the hill)



GPR data indicating the presence of the second suspected UST (the depth increases as the scanning moved up the hill)

GPR Data Screenshots and Photos	756 State St. Schenectady, NY	GPRS

Soil Boring 1



Soil Boring 2



Soil Boring 3



Soil Boring 4



Soil Boring 5



Soil Boring 6



CLOSING

GPRS, Inc. has been in business since 2001, specializing in underground storage tank location, concrete scanning, utility locating, and shallow void detection for projects throughout the United States. I encourage you to visit our website (www.gprsinc.com) and contact any of the numerous references listed.

GPRS appreciates the opportunity to offer our services, and we look forward to continuing to work with you on future projects. Please feel free to contact us for additional information or with any questions you may have regarding this report.

Jeffrey Lail
Subsurface Consultant —Upstate NY

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Area Manager—Upstate NY

Direct: (518) 448-4471

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APPENDIX C

Subsurface Exploration Logs

C.T. MALE ASSOCIATES

DIRECT-PUSH EXPLORATION LOG

BORING NO.: GP-1
ELEV.: **DATUM:**
START DATE: 11/29/23 **FINISH DATE:** 11/29/23
SHEET 1 of 1

PROJECT: Schenectady 40 Anchor Site
LOCATION: 742, 754 & 758 State Street and 749 Albany Street
CTM PROJECT NO.: 23.3588
CTM OBSERVER: RH

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE NUMBER	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
				ASPHALT at Surface (±2 inches)	
2		1	1.8	Brown/grey fine to med SAND, some f to c Gravel, trace silt (damp)	
				Brown fine to med SAND, little fine to coarse gravel and brick (damp)	
4		2		FILL: BRICK, little fine to medium sand and fine gravel (damp)	
6		3	1.2	Brown fine SAND, occasional brick (damp)	
8		4			
10		5	1.3		
12		6			
14		7	1.3		
		8		Brown fine to medium SAND, some Fill (brick, coal, ash) (damp)	
16					
18		9	3.9	Brown fine SAND (saturated)	
		10			
20				Boring Terminated @ 20± feet bgs	MW-1 Installed

DRILLING CONTRACTOR: Precision Environmental Services Inc.
DIRECT-PUSH TYPE: 6620 DT
METHOD OF SAMPLING: 4'x2" Macro Core

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE EVALUATION. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY:
RH

C.T. MALE ASSOCIATES

DIRECT-PUSH EXPLORATION LOG

BORING NO.: GP-2
ELEV.: **DATUM:**
START DATE: 11/29/23 **FINISH DATE:** 11/29/23
SHEET 1 of 1

PROJECT: Schenectady 40 Anchor Site
LOCATION: 742, 754 & 758 State Street and 749 Albany Street
CTM PROJECT NO.: 23.3588
CTM OBSERVER: RH

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE NUMBER	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
				ASPHALT at Surface (±1.5 inches)	
2		1	3.0	Brown fine to coarse SAND, some f to c Gravel, trace silt (damp)	
4		2		Brown fine to medium SAND, little brick and coal, occasional fine to coarse gravel (damp)	
6		3	4.0		
8		4 5		FILL: BRICK, COAL and ASH, trace fine sand (damp)	
10		6	1.0	Brown fine to medium SAND, trace brick and coal, occasional fine to coarse gravel (damp)	
12		7		(wet)	
14		8	2.7	Brown fine SAND and SILT, trace brick, occassional fine to coarse gravel (wet)	
16		9		(saturated)	
18				Boring Terminated @ 16± feet bgs	
20					

DRILLING CONTRACTOR: Precision Environmental Services Inc.
DIRECT-PUSH TYPE: 6620 DT
METHOD OF SAMPLING: 4'x2" Macro Core

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE EVALUATION. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY:
RH

C.T. MALE ASSOCIATES

DIRECT-PUSH EXPLORATION LOG

BORING NO.: GP-3
ELEV.: **DATUM:**
START DATE: 11/29/23 **FINISH DATE:** 11/29/23
SHEET 1 of 1

PROJECT: Schenectady 40 Anchor Site
LOCATION: 742, 754 & 758 State Street and 749 Albany Street
CTM PROJECT NO.: 23.3588
CTM OBSERVER: RH

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE NUMBER	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
				ASPHALT at Surface (±1.5 inches)	
2		1	3.0	Brown/grey fine to medium SAND, little fine to coarse gravel (damp)	
4		2		Brown fine to medium SAND, some fine to coarse gravel, trace brick (damp)	
6		3	2.2	Brown fine to medium SAND, some fine gravel, little brick, coal, slag and ash (damp)	Petrochemical/waste oil type odor/little black staining
8		4		FILL: CONCRETE RUBBLE (damp)	
10		5	1.9	Brown fine SAND, trace brick and glass (damp)	
12		6		(wet)	
14		7	0.0		No Recovery12-20' bgs
16		8			MW-3 Installed
18		9	0.0		
20		10		Boring Terminated @ 20± feet bgs	

DRILLING CONTRACTOR: Precision Environmental Services Inc.
DIRECT-PUSH TYPE: 6620 DT
METHOD OF SAMPLING: 4'x2" Macro Core

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE EVALUATION. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: RH

C.T. MALE ASSOCIATES

DIRECT-PUSH EXPLORATION LOG

BORING NO.: GP-4
ELEV.: **DATUM:**
START DATE: 11/29/23 **FINISH DATE:** 11/29/23
SHEET 1 of 1

PROJECT: Schenectady 40 Anchor Site
LOCATION: 742, 754 & 758 State Street and 749 Albany Street
CTM PROJECT NO.: 23.3588
CTM OBSERVER: RH

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE NUMBER	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
				ASPHALT at Surface (±1.5 inches)	
2		1	2.8	Brown fine to coarse SAND, some fine to coarse Gravel, trace brick, ash and glass (damp)	
4		2			
6		3	1.8	Brown fine to medium SAND, little fine to coarse gravel, trace brick ash, glass and concrete rubble (damp)	
8		4			
10		5	2.6		
		6		FILL: BRICK, COAL, SLAG, ASH, GLASS & CONCRETE, little fine to medium sand (damp)	
12		7		Brown fine to med SAND, little fine to coarse gravel, trace brick(damp)	
14		8	4.0		
16		9		(wet)	Petrochemical type odor/ black staining 15-17.5± feet bgs
18		10	3.5		
20		11		Boring Terminated @ 20± feet bgs	MW-4 Installed

DRILLING CONTRACTOR: Precision Environmental Services Inc.
DIRECT-PUSH TYPE: 6620 DT
METHOD OF SAMPLING: 4'x2" Macro Core

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE EVALUATION. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: RH

C.T. MALE ASSOCIATES

DIRECT-PUSH EXPLORATION LOG

BORING NO.: GP-5
ELEV.: **DATUM:**
START DATE: 11/29/23 **FINISH DATE:** 11/29/23
SHEET 1 of 1

PROJECT: Schenectady 40 Anchor Site
LOCATION: 742, 754 & 758 State Street and 749 Albany Street
CTM PROJECT NO.: 23.3588
CTM OBSERVER: RH

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE NUMBER	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
				ASPHALT at Surface (±1.5 inches)	
2		1	2.7	Brown fine to medium SAND, some fine to coarse Gravel (damp)	
		2		Brown fine to medium SAND, some Fill (brick, ash, tile, coal), little fine to coarse gravel (damp)	
4		3		Brown fine to medium SAND, little fine to coarse gravel, trace brick and coal (damp)	Two-inch seam coarse sand 2± feet bgs
6		4	2.5		
8		5			
10		6	3.0		
12		7		(wet)	Two-inch seam weathered rock 10± feet bgs
14		8	2.4	(saturated)	
16		9			
18				Boring Terminated @ 16± feet bgs	
20					

DRILLING CONTRACTOR: Precision Environmental Services Inc.
DIRECT-PUSH TYPE: 6620 DT
METHOD OF SAMPLING: 4'x2" Macro Core

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE EVALUATION. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: RH

C.T. MALE ASSOCIATES

DIRECT-PUSH EXPLORATION LOG

BORING NO.: GP-5
ELEV.: **DATUM:**
START DATE: 11/29/23 **FINISH DATE:** 11/29/23
SHEET 1 of 1

PROJECT: Schenectady 40 Anchor Site
LOCATION: 742, 754 & 758 State Street and 749 Albany Street
CTM PROJECT NO.: 23.3588
CTM OBSERVER: RH

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE NUMBER	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
2		1	3.0	Brown/grey fine to coarse SAND and GRAVEL, little fill (brick and coal), trace organics (damp)	
4		2		Brown fine to medium SAND, occassional coarse gravel, trace brick (damp)	
6		3	2.2	(wet)	
8		4			
10		5	3.0	Brown fine SAND, trace silt and brick, occasional coarse gravel (wet)	
12		6			
14				Boring Terminated @ 12± feet bgs	MW-6 Installed
16					
18					
20					

DRILLING CONTRACTOR: Precision Environmental Services Inc.
DIRECT-PUSH TYPE: 6620 DT
METHOD OF SAMPLING: 4'x2" Macro Core

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE EVALUATION. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY: RH

APPENDIX D

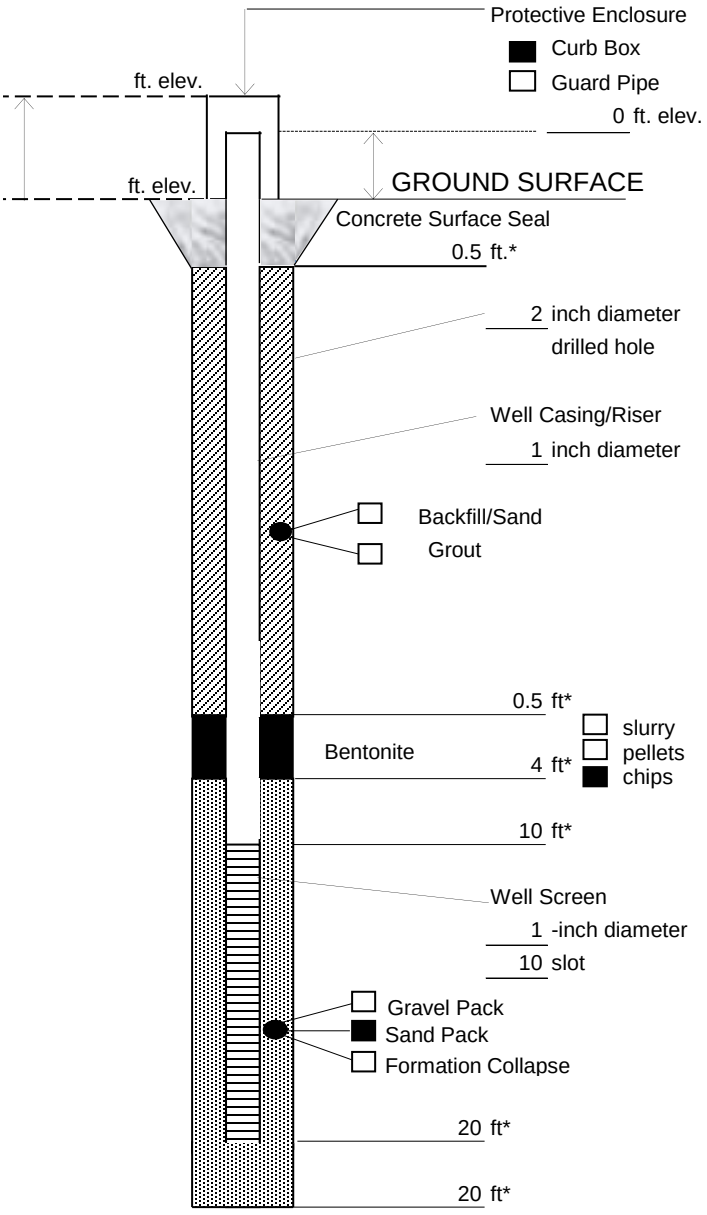
Monitoring Well Construction Logs

REPORT 3

Well No.: MW-1

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Name: Schenectady 40 Anchor Site

Project Number: 23.3588

Well No.: MW-1 Boring No.: GP-1

Town/City: City of Schenectady

County: Schenectady State: NY

Installation Date(s): 11/29/2023

Drilling Contractor: Precision Environmental Services, Inc.

Drilling Method: Geoprobe direct push

Water Depth From Top of Riser: ____ ft ____ Date

C.T. Male Observer: R. Hubbard

Materials Used:

- 3/4 Bags of Sand (50 lb. bags)
  Sand Size: 1 Brand: FilPro
- 1/3 Bags of Bentonite (50 lb. bags)
  Brand: Haliburton
- 10 ft. of 1-inch well screen
- 10 ft. of 1-inch well riser
- 2/3 Bags of Cement/Concrete (80 lb. bags)
  Brand: Sakrete

Grout Mixture:

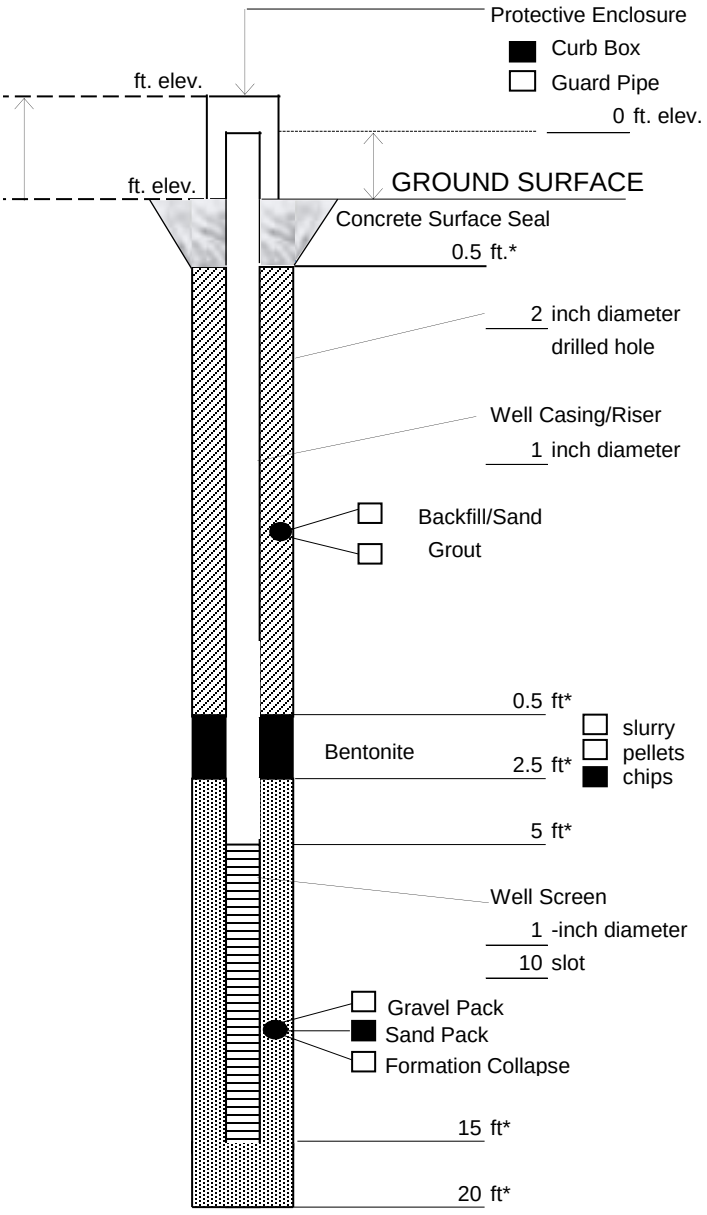
- ____ Bags of Cement (____ lb. bags)
- ____ Lbs. of Bentonite
- ____ Gallons of Water
- ____ Grout Batches

Notes:

Well No.: MW-3

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Name: Schenectady 40 Anchor Site

Project Number: 23.3588

Well No.: MW-3 Boring No.: GP-3

Town/City: City of Schenectady

County: Schenectady State: NY

Installation Date(s): 11/29/2023

Drilling Contractor: Precision Environmental Services, Inc.

Drilling Method: Geoprobe direct push

Water Depth From Top of Riser: ____ ft ____ Date

C.T. Male Observer: R. Hubbard

Materials Used:

3/4	Bags of Sand	(50 lb. bags)
	Sand Size: 1	Brand: FilPro
1/4	Bags of Bentonite	(50 lb. bags)
	Brand: Haliburton	
10	ft. of 1-inch	well screen
5	ft. of 1-inch	well riser
2/3	Bags of Cement/Concrete	(80 lb. bags)
	Brand: Sakrete	

Grout Mixture:

____	Bags of Cement (____ lb. bags)
____	Lbs. of Bentonite
____	Gallons of Water
____	Grout Batches

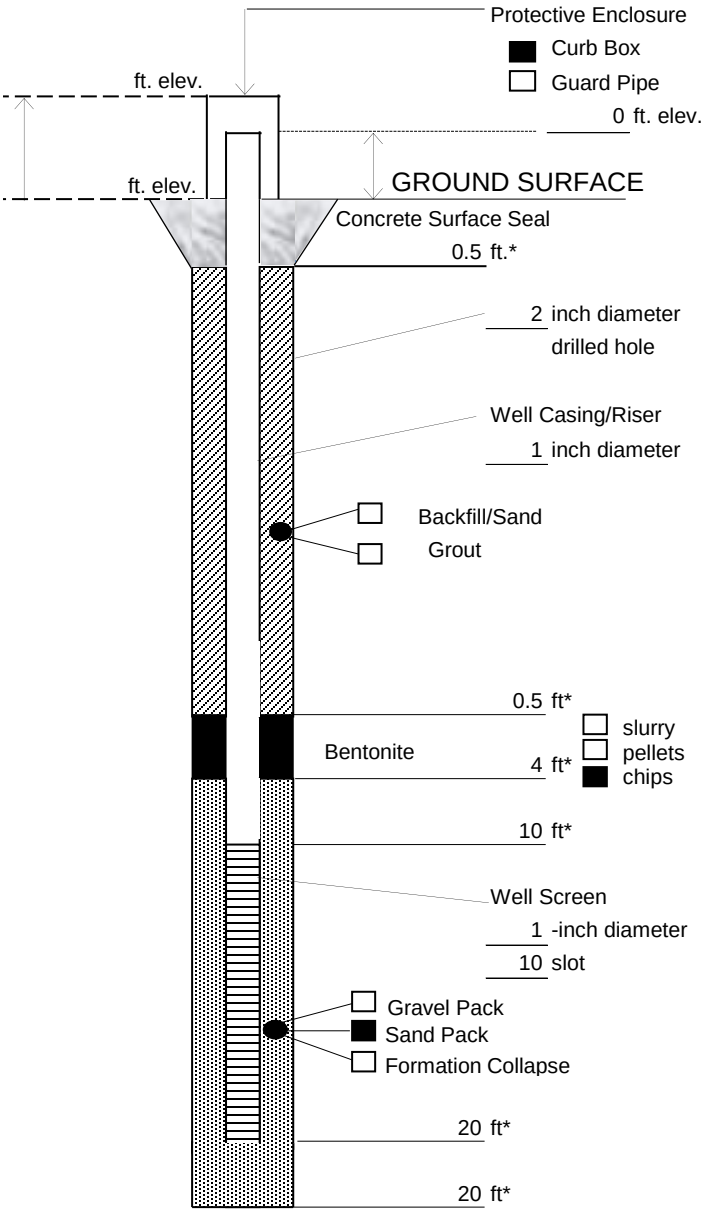
Notes:

REPORT 3

Well No.: MW-4

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Name: Schenectady 40 Anchor Site

Project Number: 23.3588

Well No.: MW-4 Boring No.: GP-4

Town/City: City of Schenectady

County: Schenectady State: NY

Installation Date(s): 11/29/2023

Drilling Contractor: Precision Environmental Services, Inc.

Drilling Method: Geoprobe direct push

Water Depth From Top of Riser: ____ ft ____ Date

C.T. Male Observer: R. Hubbard

Materials Used:

- 3/4 Bags of Sand (50 lb. bags)
  Sand Size: 1 Brand: FilPro
- 1/3 Bags of Bentonite (50 lb. bags)
  Brand: Haliburton
- 10 ft. of 1-inch well screen
- 10 ft. of 1-inch well riser
- 2/3 Bags of Cement/Concrete (80 lb. bags)
  Brand: Sakrete

Grout Mixture:

- ____ Bags of Cement (____ lb. bags)
- ____ Lbs. of Bentonite
- ____ Gallons of Water
- ____ Grout Batches

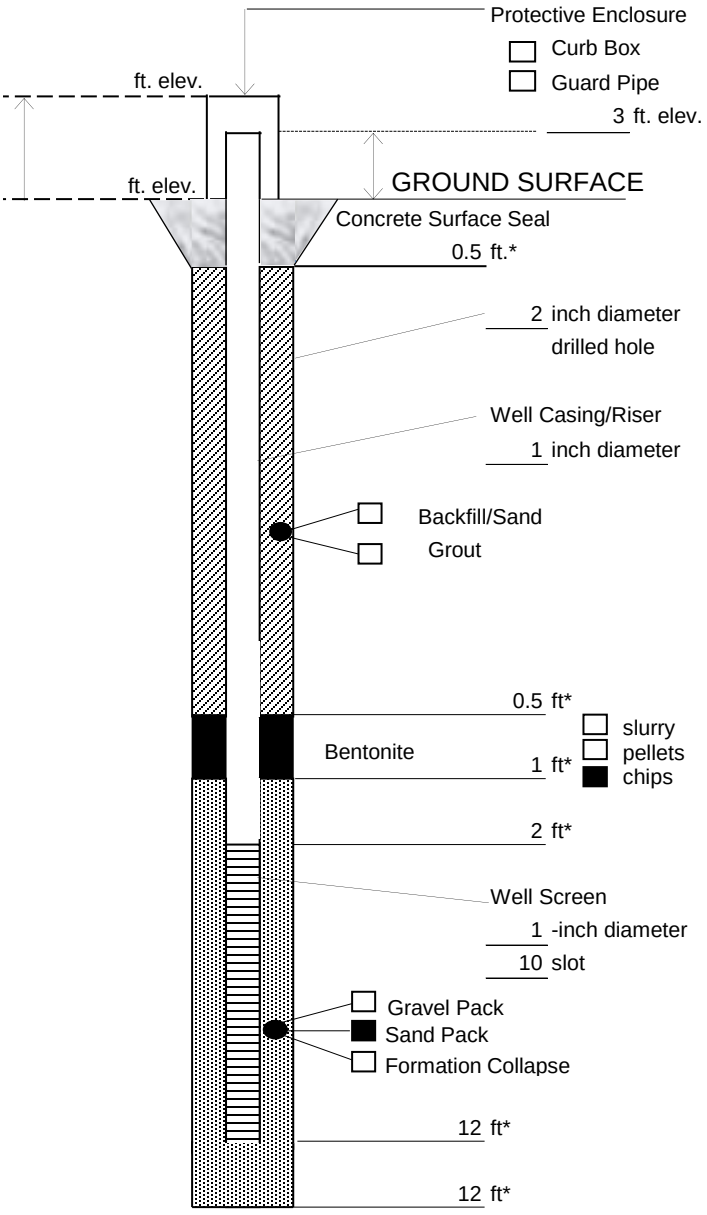
Notes:

REPORT 3

Well No.: MW-6

C.T. MALE ASSOCIATES

MONITORING WELL CONSTRUCTION LOG



* Depth below ground surface.

Project Name: Schenectady 40 Anchor Site

Project Number: 23.3588

Well No.: MW-6 Boring No.: GP-6

Town/City: City of Schenectady

County: Schenectady State: NY

Installation Date(s): 11/29/2023

Drilling Contractor: Precision Environmental Services, Inc.

Drilling Method: Geoprobe direct push

Water Depth From Top of Riser: ____ ft ____ Date

C.T. Male Observer: R. Hubbard

Materials Used:

- 1/2 Bags of Sand (50 lb. bags)
  Sand Size: 1 Brand: FilPro
- 1/8 Bags of Bentonite (50 lb. bags)
  Brand: Haliburton
- 10 ft. of 1-inch well screen
- 5 ft. of 1-inch well riser
- ____ Bags of Cement/Concrete (80 lb. bags)
  Brand: Sakrete

Grout Mixture:

- ____ Bags of Cement (____ lb. bags)
- ____ Lbs. of Bentonite
- ____ Gallons of Water
- ____ Grout Batches

Notes:

APPENDIX E

Organic Vapor Headspace Analysis Log

ORGANIC VAPOR HEADSPACE ANALYSIS LOG

PROJECT:	Schenectady 40 Anchor Site	**PROJECT #** 23.3588	PAGE 1 OF 3
LOCATION:	742, 754 & 758 State Street Schenectady		**DATE COLLECTED:** 11/29/2023
COUNTY, STATE:	Schenectady County, NY		
INSTRUMENT USED:	MiniRae 3000 **LAMP** 10.6 **eV**		**DATE ANALYZED:** 11/29/2023
DATE INSTRUMENT CALIBRATED:	11/29/2023 **BY:** RH		
TEMPERATURE OF SOIL:	ambient		**ANALYST:** RH

EXPLORATION NUMBER	SAMPLE NUMBER	DEPTH (FT.)***	SAMPLE TYPE	SAMPLE READING (PPM)**	BACKGROUND READING (PPM)**	REMARKS
GP-1	1	0-2	Soil - Headspace	0.1	0.0	NONS
GP-1	2	2-4	Soil - Headspace	0.1	0.0	NONS
GP-1	3	4-4.5	Soil - Headspace	0.1	0.0	NONS
GP-1	4	4.5-8	Soil - Headspace	0.1	0.1	NONS
GP-1	5	8-10	Soil - Headspace	0.1	0.1	NONS
GP-1	6	10-12	Soil - Headspace	0.1	0.1	NONS
GP-1	7	12-13	Soil - Headspace	0.1	0.1	NONS
GP-1	8	13-16.5	Soil - Headspace	0.3	0.1	NONS
GP-1	9	16.5-18	Soil - Headspace	0.2	0.1	NONS
GP-1	10	18-20	Soil - Headspace	0.0	0.0	NONS
GP-3	1	0-2	Soil - Headspace	0.3	0.1	NONS
GP-3	2	2-4	Soil - Headspace	0.3	0.1	NONS
GP-3	3	4-5	Soil - Headspace	0.5	0.1	Petrochemical odor/little black staining
GP-3	4	5-8	Soil - Headspace	0.2	0.1	Faint petrochemical odor/NS
GP-3	5	8-10	Soil - Headspace	0.1	0.1	NONS
GP-3	6	10-12	Soil - Headspace	0.4	0.1	NONS
GP-4	1	0-2	Soil - Headspace	0.4	0.1	NONS
GP-4	2	2-4	Soil - Headspace	0.4	0.1	NONS
GP-4	3	4-6	Soil - Headspace	0.3	0.1	NONS
GP-4	4	6-8	Soil - Headspace	0.6	0.1	NONS
GP-4	5	8-10	Soil - Headspace	0.2	0.1	NONS

*Instrument was calibrated in accordance with manufacturer's recommended procedure using a calibration gas supplied by the manufacturer.
**PPM represents concentration of detectable volatile and gaseous compounds in parts per million of air.
*** represents feet below the ground surface
NONS = No Odors/No Staining

ORGANIC VAPOR HEADSPACE ANALYSIS LOG

PROJECT:	Schenectady 40 Anchor Site	**PROJECT #** 23.3588	PAGE 2 OF 3
LOCATION:	742, 754 & 758 State Street Schenectady		**DATE COLLECTED:** 11/29/2023
COUNTY, STATE:	Schenectady County, NY		
INSTRUMENT USED:	MiniRae 3000 **LAMP** 10.6 **eV**		**DATE ANALYZED:** 11/29/2023
DATE INSTRUMENT CALIBRATED:	11/29/2023 **BY:** RH		
TEMPERATURE OF SOIL:	ambient		**ANALYST:** RH

EXPLORATION NUMBER	SAMPLE NUMBER	DEPTH (FT.)***	SAMPLE TYPE	SAMPLE READING (PPM)**	BACKGROUND READING (PPM)**	REMARKS
GP-4	6	10-11	Soil - Headspace	0.3	0.1	NONS
GP-4	7	11-12	Soil - Headspace	0.3	0.1	NONS
GP-4	8	12-15	Soil - Headspace	0.9	0.1	NONS
GP-4	9	15-16	Soil - Headspace	380.4	0.1	Petrochemical odor/black staining
GP-4	10	16-18	Soil - Headspace	96.4	0.1	Petrochemical odor/black staining
GP-4	11	18-20	Soil - Headspace	28.8	0.1	Faint petrochemical odor/little grey staining
GP-5	1	0-1	Soil - Headspace	0.5	0.1	NONS
GP-5	2	1-2	Soil - Headspace	0.6	0.2	NONS
GP-5	3	2-4	Soil - Headspace	0.5	0.2	NONS
GP-5	4	4-6	Soil - Headspace	0.4	0.2	NONS
GP-5	5	6-8	Soil - Headspace	0.6	0.2	NONS
GP-5	6	8-10	Soil - Headspace	0.5	0.1	NONS
GP-5	7	10-12	Soil - Headspace	0.6	0.2	NONS
GP-5	8	12-14	Soil - Headspace	0.6	0.2	NONS
GP-5	9	14-16	Soil - Headspace	0.7	0.2	NONS
GP-6	1	0-2	Soil - Headspace	0.5	0.1	NONS
GP-6	2	2-4	Soil - Headspace	0.2	0.1	NONS
GP-6	3	4-6	Soil - Headspace	0.2	0.1	NONS
GP-6	4	6-8	Soil - Headspace	0.1	0.1	NONS
GP-6	5	8-10	Soil - Headspace	0.2	0.1	NONS
GP-6	6	10-12	Soil - Headspace	0.2	0.1	NONS

*Instrument was calibrated in accordance with manufacturer's recommended procedure using a calibration gas supplied by the manufacturer.
**PPM represents concentration of detectable volatile and gaseous compounds in parts per million of air.
*** represents feet below the ground surface
NONS = No Odors/No Staining

ORGANIC VAPOR HEADSPACE ANALYSIS LOG

PROJECT:	Schenectady 40 Anchor Site	**PROJECT #** 23.3588	PAGE 3 OF 3
LOCATION:	742, 754 & 758 State Street Schenectady		**DATE COLLECTED:** 11/29/2023
COUNTY, STATE:	Schenectady County, NY		
INSTRUMENT USED:	MiniRae 3000 **LAMP** 10.6 **eV**		**DATE ANALYZED:** 11/29/2023
DATE INSTRUMENT CALIBRATED:	11/29/2023 **BY:** RH		
TEMPERATURE OF SOIL:	ambient		**ANALYST:** RH

EXPLORATION NUMBER	SAMPLE NUMBER	DEPTH (FT.)***	SAMPLE TYPE	SAMPLE READING (PPM)**	BACKGROUND READING (PPM)**	REMARKS
GP-4	1	0-2	Soil - Headspace	0.5	0.1	NONS
GP-4	2	2-4	Soil - Headspace	0.3	0.1	NONS
GP-4	3	4-6	Soil - Headspace	0.3	0.1	NONS
GP-4	4	6-8	Soil - Headspace	0.2	0.2	NONS
GP-4	5	7-7.5	Soil - Headspace	0.5	0.2	NONS
GP-4	6	8-10	Soil - Headspace	0.6	0.2	NONS
GP-5	7	10-12	Soil - Headspace	0.8	0.2	NONS
GP-5	8	12-14	Soil - Headspace	0.6	0.2	NONS
GP-5	9	14-16	Soil - Headspace	0.6	0.2	NONS

*Instrument was calibrated in accordance with manufacturer's recommended procedure using a calibration gas supplied by the manufacturer.
**PPM represents concentration of detectable volatile and gaseous compounds in parts per million of air.
*** represents feet below the ground surface
NONS = No Odors/No Staining

APPENDIX F

Laboratory Analysis Report for Soil

ANALYTICAL REPORT

Lab Number:	L2370406
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12110
ATTN:	Aimee Smith
Phone:	(518) 786-7400
Project Name:	SCHENECTADY 40 ANCHOR SITE
Project Number:	23.3588
Report Date:	12/06/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

REPORT 3

Lab Number: L2370406
Report Date: 12/06/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2370406-01	GP-1 13-16.5	SOIL	SCHENECTADY,NY	11/29/23 09:30	11/29/23
L2370406-02	GP-2 7-7.5	SOIL	SCHENECTADY,NY	11/29/23 15:30	11/29/23
L2370406-03	GP-3 4-5	SOIL	SCHENECTADY,NY	11/29/23 10:30	11/29/23
L2370406-04	GP-4 10-11	SOIL	SCHENECTADY,NY	11/29/23 11:30	11/29/23
L2370406-05	GP-4 15-16	SOIL	SCHENECTADY,NY	11/29/23 11:45	11/29/23
L2370406-06	GP-5 1-2	SOIL	SCHENECTADY,NY	11/29/23 13:30	11/29/23
L2370406-07	GP-6 0-2	SOIL	SCHENECTADY,NY	11/29/23 14:30	11/29/23

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Num**
Project Number: 23.3588 **Report Date:** 12/06/23

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: SCHENECTADY 40 ANCHOR SITE **Lab Num**
Project Number: 23.3588 **Report Date:** 12/06/23

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

L2370406-01 through -07: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

The WG1858154-1 Method Blank, associated with L2370406-01 through -07, has a concentration above the reporting limit for iron. Since the associated sample concentrations are either greater than 10x the blank concentration or non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".

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: 12/06/23

ORGANICS

VOLATILES

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Dat.** 12/06/23

SAMPLE RESULTS

Lab ID:	L2370406-01	Date Collected:	11/29/23 09:30
Client ID:	GP-1 13-16.5	Date Received:	11/29/23
Sample Location:	SCHENECTADY,NY	Field Prep:	Not Specified

Sample Depth:

Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 12/03/23 20:02
Analyst: AJK
Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.23	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27	1
Tetrachloroethene	ND		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.1	0.71	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Bromodichloromethane	ND		ug/kg	0.51	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.51	0.16	1
Bromoform	ND		ug/kg	4.1	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.55	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.1	0.95	1
Bromomethane	ND		ug/kg	2.0	0.59	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
Chloroethane	ND		ug/kg	2.0	0.46	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Dat.** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-01 Date Collected: 11/29/23 09:30
Client ID: GP-1 13-16.5 Date Received: 11/29/23
Sample Location: SCHENECTADY,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	2.0	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	0.57	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	0.93	1
Acetone	ND		ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	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
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.1	0.66	1
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
Methyl Acetate	ND		ug/kg	4.1	0.97	1
Cyclohexane	ND		ug/kg	10	0.55	1
Freon-113	ND		ug/kg	4.1	0.71	1
Methyl cyclohexane	ND		ug/kg	4.1	0.61	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	107		70-130

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe**

Project Number: 23.3588 **Report Dat.** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-02
Client ID: GP-2 7-7.5
Sample Location: SCHENECTADY,NY

Date Collected: 11/29/23 15:30
Date Received: 11/29/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 12/03/23 20:28
Analyst: AJK
Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.4	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.34	1
Tetrachloroethene	ND		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.1	0.89	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.21	1
Bromodichloromethane	ND		ug/kg	0.64	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.35	1
cis-1,3-Dichloropropene	ND		ug/kg	0.64	0.20	1
Bromoform	ND		ug/kg	5.1	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.64	0.21	1
Benzene	ND		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.69	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Chloromethane	ND		ug/kg	5.1	1.2	1
Bromomethane	ND		ug/kg	2.6	0.74	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
Chloroethane	ND		ug/kg	2.6	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.18	1
Trichloroethene	ND		ug/kg	0.64	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.18	1

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Dat.** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-02 Date Collected: 11/29/23 15:30
Client ID: GP-2 7-7.5 Date Received: 11/29/23
Sample Location: SCHENECTADY,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	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.72	1
o-Xylene	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
Styrene	ND		ug/kg	1.3	0.25	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	ND		ug/kg	13	6.2	1
Carbon disulfide	ND		ug/kg	13	5.8	1
2-Butanone	ND		ug/kg	13	2.8	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.6	1
2-Hexanone	ND		ug/kg	13	1.5	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.36	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.3	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.1	0.83	1
n-Propylbenzene	ND		ug/kg	1.3	0.22	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.35	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
Methyl Acetate	ND		ug/kg	5.1	1.2	1
Cyclohexane	ND		ug/kg	13	0.70	1
Freon-113	ND		ug/kg	5.1	0.89	1
Methyl cyclohexane	ND		ug/kg	5.1	0.77	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	109		70-130

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Dat.** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-03
Client ID: GP-3 4-5
Sample Location: SCHENECTADY,NY

Date Collected: 11/29/23 10:30
Date Received: 11/29/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 12/03/23 20:53
Analyst: AJK
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.97	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.97	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.97	0.12	1
Dibromochloromethane	ND		ug/kg	0.97	0.14	1
1,1,2-Trichloroethane	ND		ug/kg	0.97	0.26	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.9	0.68	1
1,2-Dichloroethane	ND		ug/kg	0.97	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	0.97	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.49	0.15	1
Bromoform	ND		ug/kg	3.9	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	0.97	0.53	1
Ethylbenzene	ND		ug/kg	0.97	0.14	1
Chloromethane	ND		ug/kg	3.9	0.91	1
Bromomethane	ND		ug/kg	1.9	0.56	1
Vinyl chloride	ND		ug/kg	0.97	0.33	1
Chloroethane	ND		ug/kg	1.9	0.44	1
1,1-Dichloroethene	ND		ug/kg	0.97	0.23	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.13	1
Trichloroethene	ND		ug/kg	0.49	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.9	0.14	1

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Dat.** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-03 Date Collected: 11/29/23 10:30
Client ID: GP-3 4-5 Date Received: 11/29/23
Sample Location: SCHENECTADY,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	1.9	0.14	1
1,4-Dichlorobenzene	ND		ug/kg	1.9	0.17	1
Methyl tert butyl ether	ND		ug/kg	1.9	0.20	1
p/m-Xylene	ND		ug/kg	1.9	0.54	1
o-Xylene	ND		ug/kg	0.97	0.28	1
cis-1,2-Dichloroethene	ND		ug/kg	0.97	0.17	1
Styrene	ND		ug/kg	0.97	0.19	1
Dichlorodifluoromethane	ND		ug/kg	9.7	0.89	1
Acetone	ND		ug/kg	9.7	4.7	1
Carbon disulfide	ND		ug/kg	9.7	4.4	1
2-Butanone	ND		ug/kg	9.7	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	9.7	1.2	1
2-Hexanone	ND		ug/kg	9.7	1.1	1
1,2-Dibromoethane	ND		ug/kg	0.97	0.27	1
n-Butylbenzene	ND		ug/kg	0.97	0.16	1
sec-Butylbenzene	ND		ug/kg	0.97	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.9	0.97	1
Isopropylbenzene	ND		ug/kg	0.97	0.11	1
p-Isopropyltoluene	ND		ug/kg	0.97	0.11	1
Naphthalene	ND		ug/kg	3.9	0.63	1
n-Propylbenzene	ND		ug/kg	0.97	0.17	1
1,2,4-Trichlorobenzene	ND		ug/kg	1.9	0.26	1
1,3,5-Trimethylbenzene	ND		ug/kg	1.9	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	1.9	0.32	1
Methyl Acetate	ND		ug/kg	3.9	0.92	1
Cyclohexane	ND		ug/kg	9.7	0.53	1
Freon-113	ND		ug/kg	3.9	0.67	1
Methyl cyclohexane	ND		ug/kg	3.9	0.59	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	108		70-130

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Dat.** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-04
Client ID: GP-4 10-11
Sample Location: SCHENECTADY,NY

Date Collected: 11/29/23 11:30
Date Received: 11/29/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 12/03/23 21:19
Analyst: AJK
Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	7.6	3.5	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.22	1
Chloroform	ND		ug/kg	2.3	0.21	1
Carbon tetrachloride	ND		ug/kg	1.5	0.35	1
1,2-Dichloropropane	ND		ug/kg	1.5	0.19	1
Dibromochloromethane	ND		ug/kg	1.5	0.21	1
1,1,2-Trichloroethane	ND		ug/kg	1.5	0.40	1
Tetrachloroethene	ND		ug/kg	0.76	0.30	1
Chlorobenzene	ND		ug/kg	0.76	0.19	1
Trichlorofluoromethane	ND		ug/kg	6.0	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.39	1
1,1,1-Trichloroethane	ND		ug/kg	0.76	0.25	1
Bromodichloromethane	ND		ug/kg	0.76	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.41	1
cis-1,3-Dichloropropene	ND		ug/kg	0.76	0.24	1
Bromoform	ND		ug/kg	6.0	0.37	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.76	0.25	1
Benzene	ND		ug/kg	0.76	0.25	1
Toluene	ND		ug/kg	1.5	0.82	1
Ethylbenzene	ND		ug/kg	1.5	0.21	1
Chloromethane	ND		ug/kg	6.0	1.4	1
Bromomethane	ND		ug/kg	3.0	0.88	1
Vinyl chloride	ND		ug/kg	1.5	0.51	1
Chloroethane	ND		ug/kg	3.0	0.68	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.36	1
trans-1,2-Dichloroethene	ND		ug/kg	2.3	0.21	1
Trichloroethene	ND		ug/kg	0.76	0.21	1
1,2-Dichlorobenzene	ND		ug/kg	3.0	0.22	1

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Dat.** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-04 Date Collected: 11/29/23 11:30
Client ID: GP-4 10-11 Date Received: 11/29/23
Sample Location: SCHENECTADY,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	3.0	0.22	1
1,4-Dichlorobenzene	ND		ug/kg	3.0	0.26	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.30	1
p/m-Xylene	ND		ug/kg	3.0	0.85	1
o-Xylene	ND		ug/kg	1.5	0.44	1
cis-1,2-Dichloroethene	ND		ug/kg	1.5	0.26	1
Styrene	ND		ug/kg	1.5	0.30	1
Dichlorodifluoromethane	ND		ug/kg	15	1.4	1
Acetone	ND		ug/kg	15	7.3	1
Carbon disulfide	ND		ug/kg	15	6.9	1
2-Butanone	ND		ug/kg	15	3.4	1
4-Methyl-2-pentanone	ND		ug/kg	15	1.9	1
2-Hexanone	ND		ug/kg	15	1.8	1
1,2-Dibromoethane	ND		ug/kg	1.5	0.42	1
n-Butylbenzene	ND		ug/kg	1.5	0.25	1
sec-Butylbenzene	ND		ug/kg	1.5	0.22	1
tert-Butylbenzene	ND		ug/kg	3.0	0.18	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.5	1.5	1
Isopropylbenzene	ND		ug/kg	1.5	0.16	1
p-Isopropyltoluene	ND		ug/kg	1.5	0.16	1
Naphthalene	1.2	J	ug/kg	6.0	0.98	1
n-Propylbenzene	ND		ug/kg	1.5	0.26	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.0	0.41	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.0	0.29	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.0	0.50	1
Methyl Acetate	ND		ug/kg	6.0	1.4	1
Cyclohexane	ND		ug/kg	15	0.82	1
Freon-113	ND		ug/kg	6.0	1.0	1
Methyl cyclohexane	ND		ug/kg	6.0	0.91	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	102		70-130
Dibromofluoromethane	108		70-130

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe**

Project Number: 23.3588 **Report Dat**: 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-05
Client ID: GP-4 15-16
Sample Location: SCHENECTADY,NY

Date Collected: 11/29/23 11:45
Date Received: 11/29/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 12/03/23 23:01
Analyst: AJK
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Methylene chloride	ND		ug/kg	280	130	1
1,1-Dichloroethane	ND		ug/kg	56	8.2	1
Chloroform	ND		ug/kg	84	7.9	1
Carbon tetrachloride	ND		ug/kg	56	13.	1
1,2-Dichloropropane	ND		ug/kg	56	7.0	1
Dibromochloromethane	ND		ug/kg	56	7.9	1
1,1,2-Trichloroethane	ND		ug/kg	56	15.	1
Tetrachloroethene	ND		ug/kg	28	11.	1
Chlorobenzene	ND		ug/kg	28	7.1	1
Trichlorofluoromethane	ND		ug/kg	220	39.	1
1,2-Dichloroethane	ND		ug/kg	56	14.	1
1,1,1-Trichloroethane	ND		ug/kg	28	9.4	1
Bromodichloromethane	ND		ug/kg	28	6.1	1
trans-1,3-Dichloropropene	ND		ug/kg	56	15.	1
cis-1,3-Dichloropropene	ND		ug/kg	28	8.9	1
Bromoform	ND		ug/kg	220	14.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	28	9.3	1
Benzene	ND		ug/kg	28	9.3	1
Toluene	42	J	ug/kg	56	30.	1
Ethylbenzene	29	J	ug/kg	56	7.9	1
Chloromethane	ND		ug/kg	220	52.	1
Bromomethane	ND		ug/kg	110	33.	1
Vinyl chloride	ND		ug/kg	56	19.	1
Chloroethane	ND		ug/kg	110	25.	1
1,1-Dichloroethene	ND		ug/kg	56	13.	1
trans-1,2-Dichloroethene	ND		ug/kg	84	7.7	1
Trichloroethene	ND		ug/kg	28	7.7	1
1,2-Dichlorobenzene	ND		ug/kg	110	8.1	1

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Date:** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-05 Date Collected: 11/29/23 11:45
Client ID: GP-4 15-16 Date Received: 11/29/23
Sample Location: SCHENECTADY,NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/kg	110	8.3	1
1,4-Dichlorobenzene	ND		ug/kg	110	9.6	1
Methyl tert butyl ether	ND		ug/kg	110	11.	1
p/m-Xylene	80	J	ug/kg	110	32.	1
o-Xylene	27	J	ug/kg	56	16.	1
cis-1,2-Dichloroethene	ND		ug/kg	56	9.8	1
Styrene	ND		ug/kg	56	11.	1
Dichlorodifluoromethane	ND		ug/kg	560	52.	1
Acetone	ND		ug/kg	560	270	1
Carbon disulfide	ND		ug/kg	560	260	1
2-Butanone	ND		ug/kg	560	120	1
4-Methyl-2-pentanone	ND		ug/kg	560	72.	1
2-Hexanone	ND		ug/kg	560	66.	1
1,2-Dibromoethane	ND		ug/kg	56	16.	1
n-Butylbenzene	8900		ug/kg	56	9.4	1
sec-Butylbenzene	3100		ug/kg	56	8.2	1
tert-Butylbenzene	77	J	ug/kg	110	6.6	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	170	56.	1
Isopropylbenzene	1400		ug/kg	56	6.1	1
p-Isopropyltoluene	56		ug/kg	56	6.1	1
Naphthalene	680		ug/kg	220	36.	1
n-Propylbenzene	7000		ug/kg	56	9.6	1
1,2,4-Trichlorobenzene	ND		ug/kg	110	15.	1
1,3,5-Trimethylbenzene	26	J	ug/kg	110	11.	1
1,2,4-Trimethylbenzene	9200		ug/kg	110	19.	1
Methyl Acetate	ND		ug/kg	220	53.	1
Cyclohexane	120	J	ug/kg	560	31.	1
Freon-113	ND		ug/kg	220	39.	1
Methyl cyclohexane	280		ug/kg	220	34.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	130		70-130
Dibromofluoromethane	100		70-130

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe**

Project Number: 23.3588 **Report Dat**: 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-06
Client ID: GP-5 1-2
Sample Location: SCHENECTADY,NY

Date Collected: 11/29/23 13:30
Date Received: 11/29/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 12/03/23 21:44
Analyst: AJK
Percent Solids: 91%

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	0.12	1
Dibromochloromethane	ND		ug/kg	0.92	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.92	0.25	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	0.23	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	0.86	1
Bromomethane	ND		ug/kg	1.8	0.54	1
Vinyl chloride	ND		ug/kg	0.92	0.31	1
Chloroethane	ND		ug/kg	1.8	0.42	1
1,1-Dichloroethene	ND		ug/kg	0.92	0.22	1
trans-1,2-Dichloroethene	ND		ug/kg	1.4	0.13	1
Trichloroethene	ND		ug/kg	0.46	0.13	1
1,2-Dichlorobenzene	ND		ug/kg	1.8	0.13	1

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Dat.** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-06 Date Collected: 11/29/23 13:30
Client ID: GP-5 1-2 Date Received: 11/29/23
Sample Location: SCHENECTADY,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	1.8	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	0.52	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	2.8	0.92	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	0.60	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	0.31	1
Methyl Acetate	ND		ug/kg	3.7	0.88	1
Cyclohexane	ND		ug/kg	9.2	0.50	1
Freon-113	ND		ug/kg	3.7	0.64	1
Methyl cyclohexane	ND		ug/kg	3.7	0.56	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	111		70-130

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Dat.** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-07
Client ID: GP-6 0-2
Sample Location: SCHENECTADY,NY

Date Collected: 11/29/23 14:30
Date Received: 11/29/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 12/03/23 22:10
Analyst: AJK
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.7	2.2	1
1,1-Dichloroethane	ND		ug/kg	0.94	0.14	1
Chloroform	ND		ug/kg	1.4	0.13	1
Carbon tetrachloride	ND		ug/kg	0.94	0.22	1
1,2-Dichloropropane	ND		ug/kg	0.94	0.12	1
Dibromochloromethane	ND		ug/kg	0.94	0.13	1
1,1,2-Trichloroethane	ND		ug/kg	0.94	0.25	1
Tetrachloroethene	ND		ug/kg	0.47	0.18	1
Chlorobenzene	ND		ug/kg	0.47	0.12	1
Trichlorofluoromethane	ND		ug/kg	3.8	0.66	1
1,2-Dichloroethane	ND		ug/kg	0.94	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	0.94	0.26	1
cis-1,3-Dichloropropene	ND		ug/kg	0.47	0.15	1
Bromoform	ND		ug/kg	3.8	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	0.94	0.51	1
Ethylbenzene	ND		ug/kg	0.94	0.13	1
Chloromethane	ND		ug/kg	3.8	0.88	1
Bromomethane	ND		ug/kg	1.9	0.55	1
Vinyl chloride	ND		ug/kg	0.94	0.32	1
Chloroethane	ND		ug/kg	1.9	0.43	1
1,1-Dichloroethene	ND		ug/kg	0.94	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	0.14	1

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe**

Project Number: 23.3588 **Report Dat**: 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-07 Date Collected: 11/29/23 14:30
Client ID: GP-6 0-2 Date Received: 11/29/23
Sample Location: SCHENECTADY,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	1.9	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	0.53	1
o-Xylene	ND		ug/kg	0.94	0.27	1
cis-1,2-Dichloroethene	ND		ug/kg	0.94	0.16	1
Styrene	ND		ug/kg	0.94	0.18	1
Dichlorodifluoromethane	ND		ug/kg	9.4	0.86	1
Acetone	ND		ug/kg	9.4	4.5	1
Carbon disulfide	ND		ug/kg	9.4	4.3	1
2-Butanone	ND		ug/kg	9.4	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	9.4	1.2	1
2-Hexanone	ND		ug/kg	9.4	1.1	1
1,2-Dibromoethane	ND		ug/kg	0.94	0.26	1
n-Butylbenzene	ND		ug/kg	0.94	0.16	1
sec-Butylbenzene	ND		ug/kg	0.94	0.14	1
tert-Butylbenzene	ND		ug/kg	1.9	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	2.8	0.94	1
Isopropylbenzene	ND		ug/kg	0.94	0.10	1
p-Isopropyltoluene	ND		ug/kg	0.94	0.10	1
Naphthalene	ND		ug/kg	3.8	0.61	1
n-Propylbenzene	ND		ug/kg	0.94	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	0.90	1
Cyclohexane	ND		ug/kg	9.4	0.51	1
Freon-113	ND		ug/kg	3.8	0.65	1
Methyl cyclohexane	ND		ug/kg	3.8	0.57	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	109		70-130

REPORT 3

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Nur** 5

Project Number: 23.3588 **Report Date:** 12/06/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/03/23 15:48
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04,06-07 Batch: WG1859492-5					
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	0.88	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: SCHENECTADY 40 ANCHOR SITE **Lab Nur** 5

Project Number: 23.3588 **Report Date:** 12/06/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/03/23 15:48
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04,06-07 Batch: WG1859492-5					
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

REPORT 3

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Nur** 5

Project Number: 23.3588 **Report Date:** 12/06/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/03/23 15:48
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-04,06-07 Batch: WG1859492-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

REPORT 3

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Nur** 5

Project Number: 23.3588 **Report Date:** 12/06/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/03/23 15:48
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05 Batch: WG1859493-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	ND		ug/kg	75	7.0
Carbon tetrachloride	ND		ug/kg	50	12.
1,2-Dichloropropane	ND		ug/kg	50	6.2
Dibromochloromethane	ND		ug/kg	50	7.0
1,1,2-Trichloroethane	ND		ug/kg	50	13.
Tetrachloroethene	ND		ug/kg	25	9.8
Chlorobenzene	ND		ug/kg	25	6.4
Trichlorofluoromethane	ND		ug/kg	200	35.
1,2-Dichloroethane	ND		ug/kg	50	13.
1,1,1-Trichloroethane	ND		ug/kg	25	8.4
Bromodichloromethane	ND		ug/kg	25	5.4
trans-1,3-Dichloropropene	ND		ug/kg	50	14.
cis-1,3-Dichloropropene	ND		ug/kg	25	7.9
Bromoform	ND		ug/kg	200	12.
1,1,2,2-Tetrachloroethane	ND		ug/kg	25	8.3
Benzene	ND		ug/kg	25	8.3
Toluene	ND		ug/kg	50	27.
Ethylbenzene	ND		ug/kg	50	7.0
Chloromethane	ND		ug/kg	200	47.
Bromomethane	44	J	ug/kg	100	29.
Vinyl chloride	ND		ug/kg	50	17.
Chloroethane	ND		ug/kg	100	23.
1,1-Dichloroethene	ND		ug/kg	50	12.
trans-1,2-Dichloroethene	ND		ug/kg	75	6.8
Trichloroethene	ND		ug/kg	25	6.8
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4

REPORT 3

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Nur** 5

Project Number: 23.3588 **Report Date:** 12/06/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/03/23 15:48
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05 Batch: WG1859493-5					
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	ND		ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Styrene	ND		ug/kg	50	9.8
Dichlorodifluoromethane	ND		ug/kg	500	46.
Acetone	ND		ug/kg	500	240
Carbon disulfide	ND		ug/kg	500	230
2-Butanone	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
2-Hexanone	ND		ug/kg	500	59.
1,2-Dibromoethane	ND		ug/kg	50	14.
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,4-Trichlorobenzene	ND		ug/kg	100	14.
1,3,5-Trimethylbenzene	ND		ug/kg	100	9.6
1,2,4-Trimethylbenzene	ND		ug/kg	100	17.
Methyl Acetate	ND		ug/kg	200	48.
Cyclohexane	ND		ug/kg	500	27.
Freon-113	ND		ug/kg	200	35.
Methyl cyclohexane	ND		ug/kg	200	30.

REPORT 3

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Nur** 5

Project Number: 23.3588 **Report Date:** 12/06/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/03/23 15:48
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05 Batch: WG1859493-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	101		70-130

REPORT 3

Lab Control Sample Analysis
Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

Lab Number: L2370406
Report Date: 12/06/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04,06-07 Batch: WG1859492-3 WG1859492-4								
Methylene chloride	100		101		70-130	1		30
1,1-Dichloroethane	116		116		70-130	0		30
Chloroform	113		112		70-130	1		30
Carbon tetrachloride	120		120		70-130	0		30
1,2-Dichloropropane	114		113		70-130	1		30
Dibromochloromethane	100		100		70-130	0		30
1,1,2-Trichloroethane	106		105		70-130	1		30
Tetrachloroethene	115		116		70-130	1		30
Chlorobenzene	103		104		70-130	1		30
Trichlorofluoromethane	123		123		70-139	0		30
1,2-Dichloroethane	108		109		70-130	1		30
1,1,1-Trichloroethane	119		119		70-130	0		30
Bromodichloromethane	113		112		70-130	1		30
trans-1,3-Dichloropropene	110		111		70-130	1		30
cis-1,3-Dichloropropene	116		118		70-130	2		30
Bromoform	84		86		70-130	2		30
1,1,2,2-Tetrachloroethane	104		102		70-130	2		30
Benzene	114		114		70-130	0		30
Toluene	107		107		70-130	0		30
Ethylbenzene	110		110		70-130	0		30
Chloromethane	125		122		52-130	2		30
Bromomethane	101		100		57-147	1		30
Vinyl chloride	127		124		67-130	2		30

REPORT 3

Lab Control Sample Analysis
Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

Lab Number: L2370406
Report Date: 12/06/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04,06-07 Batch: WG1859492-3 WG1859492-4								
Chloroethane	120		120		50-151	0		30
1,1-Dichloroethene	121		122		65-135	1		30
trans-1,2-Dichloroethene	115		116		70-130	1		30
Trichloroethene	117		120		70-130	3		30
1,2-Dichlorobenzene	98		98		70-130	0		30
1,3-Dichlorobenzene	102		103		70-130	1		30
1,4-Dichlorobenzene	100		101		70-130	1		30
Methyl tert butyl ether	112		113		66-130	1		30
p/m-Xylene	112		112		70-130	0		30
o-Xylene	107		107		70-130	0		30
cis-1,2-Dichloroethene	110		112		70-130	2		30
Styrene	101		100		70-130	1		30
Dichlorodifluoromethane	119		118		30-146	1		30
Acetone	117		115		54-140	2		30
Carbon disulfide	119		117		59-130	2		30
2-Butanone	123		120		70-130	2		30
4-Methyl-2-pentanone	92		91		70-130	1		30
2-Hexanone	95		93		70-130	2		30
1,2-Dibromoethane	94		94		70-130	0		30
n-Butylbenzene	104		103		70-130	1		30
sec-Butylbenzene	102		101		70-130	1		30
tert-Butylbenzene	110		110		70-130	0		30
1,2-Dibromo-3-chloropropane	89		90		68-130	1		30

REPORT 3

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

Lab Number: L2370406
Report Date: 12/06/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-04,06-07 Batch: WG1859492-3 WG1859492-4								
Isopropylbenzene	110		110		70-130	0		30
p-Isopropyltoluene	99		99		70-130	0		30
Naphthalene	97		99		70-130	2		30
n-Propylbenzene	113		112		70-130	1		30
1,2,4-Trichlorobenzene	102		105		70-130	3		30
1,3,5-Trimethylbenzene	108		109		70-130	1		30
1,2,4-Trimethylbenzene	107		107		70-130	0		30
Methyl Acetate	110		112		51-146	2		30
Cyclohexane	120		120		59-142	0		30
Freon-113	121		122		50-139	1		30
Methyl cyclohexane	113		112		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		101		70-130
Toluene-d8	99		97		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	100		103		70-130

REPORT 3

Lab Control Sample Analysis
Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

Lab Number: L2370406
Report Date: 12/06/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1859493-3 WG1859493-4								
Methylene chloride	100		101		70-130	1		30
1,1-Dichloroethane	116		116		70-130	0		30
Chloroform	113		112		70-130	1		30
Carbon tetrachloride	120		120		70-130	0		30
1,2-Dichloropropane	114		113		70-130	1		30
Dibromochloromethane	100		100		70-130	0		30
1,1,2-Trichloroethane	106		105		70-130	1		30
Tetrachloroethene	115		116		70-130	1		30
Chlorobenzene	103		104		70-130	1		30
Trichlorofluoromethane	123		123		70-139	0		30
1,2-Dichloroethane	108		109		70-130	1		30
1,1,1-Trichloroethane	119		119		70-130	0		30
Bromodichloromethane	113		112		70-130	1		30
trans-1,3-Dichloropropene	110		111		70-130	1		30
cis-1,3-Dichloropropene	116		118		70-130	2		30
Bromoform	84		86		70-130	2		30
1,1,2,2-Tetrachloroethane	104		102		70-130	2		30
Benzene	114		114		70-130	0		30
Toluene	107		107		70-130	0		30
Ethylbenzene	110		110		70-130	0		30
Chloromethane	125		122		52-130	2		30
Bromomethane	101		100		57-147	1		30
Vinyl chloride	127		124		67-130	2		30

REPORT 3

Lab Control Sample Analysis
Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

Lab Number: L2370406
Report Date: 12/06/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1859493-3 WG1859493-4								
Chloroethane	120		120		50-151	0		30
1,1-Dichloroethene	121		122		65-135	1		30
trans-1,2-Dichloroethene	115		116		70-130	1		30
Trichloroethene	117		120		70-130	3		30
1,2-Dichlorobenzene	98		98		70-130	0		30
1,3-Dichlorobenzene	102		103		70-130	1		30
1,4-Dichlorobenzene	100		101		70-130	1		30
Methyl tert butyl ether	112		113		66-130	1		30
p/m-Xylene	112		112		70-130	0		30
o-Xylene	107		107		70-130	0		30
cis-1,2-Dichloroethene	110		112		70-130	2		30
Styrene	101		100		70-130	1		30
Dichlorodifluoromethane	119		118		30-146	1		30
Acetone	117		115		54-140	2		30
Carbon disulfide	119		117		59-130	2		30
2-Butanone	123		120		70-130	2		30
4-Methyl-2-pentanone	92		91		70-130	1		30
2-Hexanone	95		93		70-130	2		30
1,2-Dibromoethane	94		94		70-130	0		30
n-Butylbenzene	104		103		70-130	1		30
sec-Butylbenzene	102		101		70-130	1		30
tert-Butylbenzene	110		110		70-130	0		30
1,2-Dibromo-3-chloropropane	89		90		68-130	1		30

REPORT 3

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE

Project Number: 23.3588

Lab Number: L2370406

Report Date: 12/06/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1859493-3 WG1859493-4								
Isopropylbenzene	110		110		70-130	0		30
p-Isopropyltoluene	99		99		70-130	0		30
Naphthalene	97		99		70-130	2		30
n-Propylbenzene	113		112		70-130	1		30
1,2,4-Trichlorobenzene	102		105		70-130	3		30
1,3,5-Trimethylbenzene	108		109		70-130	1		30
1,2,4-Trimethylbenzene	107		107		70-130	0		30
Methyl Acetate	110		112		51-146	2		30
Cyclohexane	120		120		59-142	0		30
Freon-113	121		122		50-139	1		30
Methyl cyclohexane	113		112		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		101		70-130
Toluene-d8	99		97		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	100		102		70-130

SEMIVOLATILES

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Date:** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-01
Client ID: GP-1 13-16.5
Sample Location: SCHENECTADY,NY

Date Collected: 11/29/23 09:30
Date Received: 11/29/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 12/02/23 07:52
Analyst: EK
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 12/01/23 02:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
Fluoranthene	180		ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	51	J	ug/kg	110	21.	1
Benzo(a)pyrene	61	J	ug/kg	150	46.	1
Benzo(b)fluoranthene	110		ug/kg	110	32.	1
Benzo(k)fluoranthene	31	J	ug/kg	110	30.	1
Chrysene	110		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	59	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	82	J	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	48	J	ug/kg	150	26.	1
Pyrene	150		ug/kg	110	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	84		30-120
4-Terphenyl-d14	95		18-120

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Date:** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-02
Client ID: GP-2 7-7.5
Sample Location: SCHENECTADY,NY

Date Collected: 11/29/23 15:30
Date Received: 11/29/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 12/02/23 02:14
Analyst: EK
Percent Solids: 75%

Extraction Method: EPA 3546
Extraction Date: 12/01/23 02:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	23.	1
Fluoranthene	ND		ug/kg	130	25.	1
Naphthalene	ND		ug/kg	220	27.	1
Benzo(a)anthracene	ND		ug/kg	130	25.	1
Benzo(a)pyrene	ND		ug/kg	170	53.	1
Benzo(b)fluoranthene	ND		ug/kg	130	37.	1
Benzo(k)fluoranthene	ND		ug/kg	130	35.	1
Chrysene	ND		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	170	34.	1
Anthracene	ND		ug/kg	130	43.	1
Benzo(ghi)perylene	ND		ug/kg	170	26.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	ND		ug/kg	130	26.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	170	30.	1
Pyrene	ND		ug/kg	130	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	71		30-120
4-Terphenyl-d14	87		18-120

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe**

Project Number: 23.3588 **Report Dat**: 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-03
Client ID: GP-3 4-5
Sample Location: SCHENECTADY,NY

Date Collected: 11/29/23 10:30
Date Received: 11/29/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 12/02/23 08:41
Analyst: EK
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 12/01/23 02:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
Fluoranthene	260		ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	92	J	ug/kg	110	21.	1
Benzo(a)pyrene	110	J	ug/kg	150	46.	1
Benzo(b)fluoranthene	160		ug/kg	110	32.	1
Benzo(k)fluoranthene	50	J	ug/kg	110	30.	1
Chrysene	140		ug/kg	110	20.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	37.	1
Benzo(ghi)perylene	85	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	93	J	ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	76	J	ug/kg	150	26.	1
Pyrene	210		ug/kg	110	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	105		23-120
2-Fluorobiphenyl	93		30-120
4-Terphenyl-d14	107		18-120

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Dat.** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-04 D
Client ID: GP-4 10-11
Sample Location: SCHENECTADY,NY

Date Collected: 11/29/23 11:30
Date Received: 11/29/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 12/06/23 10:27
Analyst: JG
Percent Solids: 78%

Extraction Method: EPA 3546
Extraction Date: 12/01/23 02:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	2400		ug/kg	1700	220	10
Fluoranthene	46000		ug/kg	1200	240	10
Naphthalene	1500	J	ug/kg	2100	250	10
Benzo(a)anthracene	21000		ug/kg	1200	230	10
Benzo(a)pyrene	21000		ug/kg	1700	510	10
Benzo(b)fluoranthene	22000		ug/kg	1200	350	10
Benzo(k)fluoranthene	6900		ug/kg	1200	330	10
Chrysene	20000		ug/kg	1200	220	10
Acenaphthylene	1600	J	ug/kg	1700	320	10
Anthracene	8300		ug/kg	1200	400	10
Benzo(ghi)perylene	12000		ug/kg	1700	240	10
Fluorene	3000		ug/kg	2100	200	10
Phenanthrene	34000		ug/kg	1200	250	10
Dibenzo(a,h)anthracene	2800		ug/kg	1200	240	10
Indeno(1,2,3-cd)pyrene	10000		ug/kg	1700	290	10
Pyrene	45000		ug/kg	1200	210	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	99		30-120
4-Terphenyl-d14	95		18-120

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe**

Project Number: 23.3588 **Report Dat**: 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-05
Client ID: GP-4 15-16
Sample Location: SCHENECTADY,NY

Date Collected: 11/29/23 11:45
Date Received: 11/29/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 12/02/23 06:04
Analyst: IM
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 12/01/23 02:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	130	J	ug/kg	150	19.	1
Fluoranthene	3100		ug/kg	110	21.	1
Naphthalene	750		ug/kg	180	23.	1
Benzo(a)anthracene	1500		ug/kg	110	21.	1
Benzo(a)pyrene	1600		ug/kg	150	45.	1
Benzo(b)fluoranthene	1600		ug/kg	110	31.	1
Benzo(k)fluoranthene	520		ug/kg	110	30.	1
Chrysene	1300		ug/kg	110	19.	1
Acenaphthylene	520		ug/kg	150	29.	1
Anthracene	770		ug/kg	110	36.	1
Benzo(ghi)perylene	950		ug/kg	150	22.	1
Fluorene	370		ug/kg	180	18.	1
Phenanthrene	2300		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	180		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	1000		ug/kg	150	26.	1
Pyrene	2900		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	67		30-120
4-Terphenyl-d14	65		18-120

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Dat.** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-06
Client ID: GP-5 1-2
Sample Location: SCHENECTADY,NY

Date Collected: 11/29/23 13:30
Date Received: 11/29/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 12/02/23 06:52
Analyst: IM
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 12/01/23 02:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	41	J	ug/kg	140	19.	1
Fluoranthene	2600		ug/kg	110	21.	1
Naphthalene	130	J	ug/kg	180	22.	1
Benzo(a)anthracene	1800		ug/kg	110	20.	1
Benzo(a)pyrene	1900		ug/kg	140	44.	1
Benzo(b)fluoranthene	2200		ug/kg	110	31.	1
Benzo(k)fluoranthene	600		ug/kg	110	29.	1
Chrysene	1800		ug/kg	110	19.	1
Acenaphthylene	490		ug/kg	140	28.	1
Anthracene	390		ug/kg	110	36.	1
Benzo(ghi)perylene	1300		ug/kg	140	21.	1
Fluorene	64	J	ug/kg	180	18.	1
Phenanthrene	790		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	260		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	1400		ug/kg	140	25.	1
Pyrene	3000		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	87		23-120
2-Fluorobiphenyl	69		30-120
4-Terphenyl-d14	62		18-120

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Date:** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-07
Client ID: GP-6 0-2
Sample Location: SCHENECTADY,NY

Date Collected: 11/29/23 14:30
Date Received: 11/29/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 12/02/23 03:42
Analyst: IM
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 12/01/23 02:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
Fluoranthene	79	J	ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	24.	1
Benzo(a)anthracene	41	J	ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	56	J	ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	45	J	ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	47	J	ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	51	J	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	38	J	ug/kg	160	27.	1
Pyrene	68	J	ug/kg	120	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	78		30-120
4-Terphenyl-d14	74		18-120

REPORT 3

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Nur** 5

Project Number: 23.3588 **Report Date:** 12/06/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 12/01/23 22:39
Analyst: EK

Extraction Method: EPA 3546
Extraction Date: 12/01/23 02:38

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-07 Batch: WG1858428-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	99	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
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.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	90		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	96		10-136
4-Terphenyl-d14	93		18-120

REPORT 3

Lab Control Sample Analysis
Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

Lab Number: L2370406
Report Date: 12/06/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1858428-2 WG1858428-3								
Acenaphthene	86		81		31-137	6		50
Fluoranthene	97		92		40-140	5		50
Naphthalene	95		86		40-140	10		50
Benzo(a)anthracene	100		93		40-140	7		50
Benzo(a)pyrene	108		98		40-140	10		50
Benzo(b)fluoranthene	102		88		40-140	15		50
Benzo(k)fluoranthene	95		92		40-140	3		50
Chrysene	103		94		40-140	9		50
Acenaphthylene	98		92		40-140	6		50
Anthracene	98		90		40-140	9		50
Benzo(ghi)perylene	101		90		40-140	12		50
Fluorene	92		86		40-140	7		50
Phenanthrene	94		88		40-140	7		50
Dibenzo(a,h)anthracene	100		91		40-140	9		50
Indeno(1,2,3-cd)pyrene	101		90		40-140	12		50
Pyrene	96		92		35-142	4		50

REPORT 3

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE

Project Number: 23.3588

Lab Number: L2370406

Report Date: 12/06/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-07 Batch: WG1858428-2 WG1858428-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	89		87		25-120
Phenol-d6	96		96		10-120
Nitrobenzene-d5	95		97		23-120
2-Fluorobiphenyl	91		88		30-120
2,4,6-Tribromophenol	105		105		10-136
4-Terphenyl-d14	88		87		18-120

PCBS

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Dat.** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-01
Client ID: GP-1 13-16.5
Sample Location: SCHENECTADY,NY

Date Collected: 11/29/23 09:30
Date Received: 11/29/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 12/03/23 10:47
Analyst: ER
Percent Solids: 87%

Extraction Method: EPA 3546
Extraction Date: 12/02/23 15:29
Cleanup Method: EPA 3665A
Cleanup Date: 12/03/23
Cleanup Method: EPA 3660B
Cleanup Date: 12/03/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	55.2	4.90	1	A
Aroclor 1221	ND		ug/kg	55.2	5.53	1	A
Aroclor 1232	ND		ug/kg	55.2	11.7	1	A
Aroclor 1242	ND		ug/kg	55.2	7.44	1	A
Aroclor 1248	ND		ug/kg	55.2	8.28	1	A
Aroclor 1254	10.3	J	ug/kg	55.2	6.04	1	B
Aroclor 1260	ND		ug/kg	55.2	10.2	1	A
Aroclor 1262	ND		ug/kg	55.2	7.01	1	A
Aroclor 1268	ND		ug/kg	55.2	5.72	1	A
PCBs, Total	10.3	J	ug/kg	55.2	4.90	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	48		30-150	B

REPORT 3

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Nur** 5

Project Number: 23.3588 **Report Date:** 12/06/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 12/03/23 10:15
Analyst: ER

Extraction Method: EPA 3546
Extraction Date: 12/02/23 15:29
Cleanup Method: EPA 3665A
Cleanup Date: 12/03/23
Cleanup Method: EPA 3660B
Cleanup Date: 12/03/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1859015-1						
Aroclor 1016	ND		ug/kg	49.6	4.41	A
Aroclor 1221	ND		ug/kg	49.6	4.98	A
Aroclor 1232	ND		ug/kg	49.6	10.5	A
Aroclor 1242	ND		ug/kg	49.6	6.69	A
Aroclor 1248	ND		ug/kg	49.6	7.45	A
Aroclor 1254	ND		ug/kg	49.6	5.43	A
Aroclor 1260	ND		ug/kg	49.6	9.18	A
Aroclor 1262	ND		ug/kg	49.6	6.30	A
Aroclor 1268	ND		ug/kg	49.6	5.14	A
PCBs, Total	ND		ug/kg	49.6	4.41	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	65		30-150	A
Decachlorobiphenyl	68		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	61		30-150	B

REPORT 3

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE

Project Number: 23.3588

Lab Number: L2370406

Report Date: 12/06/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1859015-2 WG1859015-3									
Aroclor 1016	68		67		40-140	1		50	A
Aroclor 1260	70		69		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		65		30-150	A
Decachlorobiphenyl	72		73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		64		30-150	B
Decachlorobiphenyl	64		65		30-150	B

METALS

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** REPORT 3

Project Number: 23.3588 **Report Date:** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-01 Date Collected: 11/29/23 09:30

Client ID: GP-1 13-16.5 Date Received: 11/29/23

Sample Location: SCHENECTADY,NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6300		mg/kg	8.95	2.42	2	11/30/23 23:15	12/01/23 21:48	EPA 3050B	1,6010D	CEY
Antimony, Total	0.650	J	mg/kg	4.47	0.340	2	11/30/23 23:15	12/01/23 21:48	EPA 3050B	1,6010D	CEY
Arsenic, Total	5.14		mg/kg	0.895	0.186	2	11/30/23 23:15	12/01/23 21:48	EPA 3050B	1,6010D	CEY
Barium, Total	78.1		mg/kg	0.895	0.156	2	11/30/23 23:15	12/01/23 21:48	EPA 3050B	1,6010D	CEY
Beryllium, Total	0.453		mg/kg	0.447	0.030	2	11/30/23 23:15	12/01/23 21:48	EPA 3050B	1,6010D	CEY
Cadmium, Total	0.140	J	mg/kg	0.895	0.088	2	11/30/23 23:15	12/01/23 21:48	EPA 3050B	1,6010D	CEY
Calcium, Total	32600		mg/kg	8.95	3.13	2	11/30/23 23:15	12/01/23 21:48	EPA 3050B	1,6010D	CEY
Chromium, Total	9.01		mg/kg	0.895	0.086	2	11/30/23 23:15	12/01/23 21:48	EPA 3050B	1,6010D	CEY
Cobalt, Total	4.26		mg/kg	1.79	0.148	2	11/30/23 23:15	12/01/23 21:48	EPA 3050B	1,6010D	CEY
Copper, Total	63.9		mg/kg	0.895	0.231	2	11/30/23 23:15	12/01/23 21:48	EPA 3050B	1,6010D	CEY
Iron, Total	10900		mg/kg	4.47	0.808	2	11/30/23 23:15	12/01/23 21:48	EPA 3050B	1,6010D	CEY
Lead, Total	90.3		mg/kg	4.47	0.240	2	11/30/23 23:15	12/01/23 21:48	EPA 3050B	1,6010D	CEY
Magnesium, Total	4030		mg/kg	8.95	1.38	2	11/30/23 23:15	12/01/23 21:48	EPA 3050B	1,6010D	CEY
Manganese, Total	235		mg/kg	0.895	0.142	2	11/30/23 23:15	12/01/23 21:48	EPA 3050B	1,6010D	CEY
Mercury, Total	0.183		mg/kg	0.077	0.050	1	12/01/23 00:30	12/01/23 18:03	EPA 7471B	1,7471B	GMG
Nickel, Total	9.31		mg/kg	2.24	0.216	2	11/30/23 23:15	12/01/23 21:48	EPA 3050B	1,6010D	CEY
Potassium, Total	545		mg/kg	224	12.9	2	11/30/23 23:15	12/01/23 21:48	EPA 3050B	1,6010D	CEY
Selenium, Total	ND		mg/kg	1.79	0.231	2	11/30/23 23:15	12/01/23 21:48	EPA 3050B	1,6010D	CEY
Silver, Total	ND		mg/kg	0.447	0.253	2	11/30/23 23:15	12/01/23 21:48	EPA 3050B	1,6010D	CEY
Sodium, Total	420		mg/kg	179	2.82	2	11/30/23 23:15	12/01/23 21:48	EPA 3050B	1,6010D	CEY
Thallium, Total	ND		mg/kg	1.79	0.282	2	11/30/23 23:15	12/01/23 21:48	EPA 3050B	1,6010D	CEY
Vanadium, Total	17.9		mg/kg	0.895	0.182	2	11/30/23 23:15	12/01/23 21:48	EPA 3050B	1,6010D	CEY
Zinc, Total	64.2		mg/kg	4.47	0.262	2	11/30/23 23:15	12/01/23 21:48	EPA 3050B	1,6010D	CEY

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** REPORT 3

Project Number: 23.3588 **Report Date:** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-02 Date Collected: 11/29/23 15:30

Client ID: GP-2 7-7.5 Date Received: 11/29/23

Sample Location: SCHENECTADY,NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 75%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9690		mg/kg	10.0	2.70	2	11/30/23 23:15	12/01/23 22:35	EPA 3050B	1,6010D	CEY
Antimony, Total	1.01	J	mg/kg	5.01	0.381	2	11/30/23 23:15	12/01/23 22:35	EPA 3050B	1,6010D	CEY
Arsenic, Total	7.82		mg/kg	1.00	0.208	2	11/30/23 23:15	12/01/23 22:35	EPA 3050B	1,6010D	CEY
Barium, Total	61.9		mg/kg	1.00	0.174	2	11/30/23 23:15	12/01/23 22:35	EPA 3050B	1,6010D	CEY
Beryllium, Total	0.982		mg/kg	0.501	0.033	2	11/30/23 23:15	12/01/23 22:35	EPA 3050B	1,6010D	CEY
Cadmium, Total	0.140	J	mg/kg	1.00	0.098	2	11/30/23 23:15	12/01/23 22:35	EPA 3050B	1,6010D	CEY
Calcium, Total	4220		mg/kg	10.0	3.51	2	11/30/23 23:15	12/01/23 22:35	EPA 3050B	1,6010D	CEY
Chromium, Total	10.5		mg/kg	1.00	0.096	2	11/30/23 23:15	12/01/23 22:35	EPA 3050B	1,6010D	CEY
Cobalt, Total	8.54		mg/kg	2.00	0.166	2	11/30/23 23:15	12/01/23 22:35	EPA 3050B	1,6010D	CEY
Copper, Total	31.1		mg/kg	1.00	0.258	2	11/30/23 23:15	12/01/23 22:35	EPA 3050B	1,6010D	CEY
Iron, Total	12200		mg/kg	5.01	0.904	2	11/30/23 23:15	12/01/23 22:35	EPA 3050B	1,6010D	CEY
Lead, Total	103		mg/kg	5.01	0.268	2	11/30/23 23:15	12/01/23 22:35	EPA 3050B	1,6010D	CEY
Magnesium, Total	967		mg/kg	10.0	1.54	2	11/30/23 23:15	12/01/23 22:35	EPA 3050B	1,6010D	CEY
Manganese, Total	284		mg/kg	1.00	0.159	2	11/30/23 23:15	12/01/23 22:35	EPA 3050B	1,6010D	CEY
Mercury, Total	0.134		mg/kg	0.091	0.059	1	12/01/23 00:30	12/01/23 18:07	EPA 7471B	1,7471B	GMG
Nickel, Total	17.7		mg/kg	2.50	0.242	2	11/30/23 23:15	12/01/23 22:35	EPA 3050B	1,6010D	CEY
Potassium, Total	628		mg/kg	250	14.4	2	11/30/23 23:15	12/01/23 22:35	EPA 3050B	1,6010D	CEY
Selenium, Total	ND		mg/kg	2.00	0.258	2	11/30/23 23:15	12/01/23 22:35	EPA 3050B	1,6010D	CEY
Silver, Total	ND		mg/kg	0.501	0.283	2	11/30/23 23:15	12/01/23 22:35	EPA 3050B	1,6010D	CEY
Sodium, Total	236		mg/kg	200	3.16	2	11/30/23 23:15	12/01/23 22:35	EPA 3050B	1,6010D	CEY
Thallium, Total	ND		mg/kg	2.00	0.316	2	11/30/23 23:15	12/01/23 22:35	EPA 3050B	1,6010D	CEY
Vanadium, Total	22.4		mg/kg	1.00	0.203	2	11/30/23 23:15	12/01/23 22:35	EPA 3050B	1,6010D	CEY
Zinc, Total	75.2		mg/kg	5.01	0.294	2	11/30/23 23:15	12/01/23 22:35	EPA 3050B	1,6010D	CEY

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** REPORT 3

Project Number: 23.3588 **Report Date:** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-03 Date Collected: 11/29/23 10:30

Client ID: GP-3 4-5 Date Received: 11/29/23

Sample Location: SCHENECTADY,NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6390		mg/kg	8.78	2.37	2	11/30/23 23:15	12/01/23 22:39	EPA 3050B	1,6010D	CEY
Antimony, Total	1.16	J	mg/kg	4.39	0.334	2	11/30/23 23:15	12/01/23 22:39	EPA 3050B	1,6010D	CEY
Arsenic, Total	8.40		mg/kg	0.878	0.183	2	11/30/23 23:15	12/01/23 22:39	EPA 3050B	1,6010D	CEY
Barium, Total	56.6		mg/kg	0.878	0.153	2	11/30/23 23:15	12/01/23 22:39	EPA 3050B	1,6010D	CEY
Beryllium, Total	0.463		mg/kg	0.439	0.029	2	11/30/23 23:15	12/01/23 22:39	EPA 3050B	1,6010D	CEY
Cadmium, Total	0.324	J	mg/kg	0.878	0.086	2	11/30/23 23:15	12/01/23 22:39	EPA 3050B	1,6010D	CEY
Calcium, Total	43400		mg/kg	8.78	3.07	2	11/30/23 23:15	12/01/23 22:39	EPA 3050B	1,6010D	CEY
Chromium, Total	12.0		mg/kg	0.878	0.084	2	11/30/23 23:15	12/01/23 22:39	EPA 3050B	1,6010D	CEY
Cobalt, Total	6.45		mg/kg	1.76	0.146	2	11/30/23 23:15	12/01/23 22:39	EPA 3050B	1,6010D	CEY
Copper, Total	25.8		mg/kg	0.878	0.226	2	11/30/23 23:15	12/01/23 22:39	EPA 3050B	1,6010D	CEY
Iron, Total	14500		mg/kg	4.39	0.793	2	11/30/23 23:15	12/01/23 22:39	EPA 3050B	1,6010D	CEY
Lead, Total	148		mg/kg	4.39	0.235	2	11/30/23 23:15	12/01/23 22:39	EPA 3050B	1,6010D	CEY
Magnesium, Total	11800		mg/kg	8.78	1.35	2	11/30/23 23:15	12/01/23 22:39	EPA 3050B	1,6010D	CEY
Manganese, Total	328		mg/kg	0.878	0.140	2	11/30/23 23:15	12/01/23 22:39	EPA 3050B	1,6010D	CEY
Mercury, Total	0.288		mg/kg	0.077	0.050	1	12/01/23 00:30	12/01/23 18:10	EPA 7471B	1,7471B	GMG
Nickel, Total	14.7		mg/kg	2.20	0.212	2	11/30/23 23:15	12/01/23 22:39	EPA 3050B	1,6010D	CEY
Potassium, Total	544		mg/kg	220	12.6	2	11/30/23 23:15	12/01/23 22:39	EPA 3050B	1,6010D	CEY
Selenium, Total	0.863	J	mg/kg	1.76	0.226	2	11/30/23 23:15	12/01/23 22:39	EPA 3050B	1,6010D	CEY
Silver, Total	ND		mg/kg	0.439	0.248	2	11/30/23 23:15	12/01/23 22:39	EPA 3050B	1,6010D	CEY
Sodium, Total	272		mg/kg	176	2.77	2	11/30/23 23:15	12/01/23 22:39	EPA 3050B	1,6010D	CEY
Thallium, Total	ND		mg/kg	1.76	0.277	2	11/30/23 23:15	12/01/23 22:39	EPA 3050B	1,6010D	CEY
Vanadium, Total	15.7		mg/kg	0.878	0.178	2	11/30/23 23:15	12/01/23 22:39	EPA 3050B	1,6010D	CEY
Zinc, Total	82.2		mg/kg	4.39	0.257	2	11/30/23 23:15	12/01/23 22:39	EPA 3050B	1,6010D	CEY

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** REPORT 3

Project Number: 23.3588 **Report Date:** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-04 Date Collected: 11/29/23 11:30

Client ID: GP-4 10-11 Date Received: 11/29/23

Sample Location: SCHENECTADY,NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3420		mg/kg	10.1	2.72	2	11/30/23 23:15	12/01/23 22:44	EPA 3050B	1,6010D	CEY
Antimony, Total	3.65	J	mg/kg	5.04	0.383	2	11/30/23 23:15	12/01/23 22:44	EPA 3050B	1,6010D	CEY
Arsenic, Total	12.3		mg/kg	1.01	0.210	2	11/30/23 23:15	12/01/23 22:44	EPA 3050B	1,6010D	CEY
Barium, Total	59.3		mg/kg	1.01	0.175	2	11/30/23 23:15	12/01/23 22:44	EPA 3050B	1,6010D	CEY
Beryllium, Total	0.457	J	mg/kg	0.504	0.033	2	11/30/23 23:15	12/01/23 22:44	EPA 3050B	1,6010D	CEY
Cadmium, Total	1.29		mg/kg	1.01	0.099	2	11/30/23 23:15	12/01/23 22:44	EPA 3050B	1,6010D	CEY
Calcium, Total	5950		mg/kg	10.1	3.53	2	11/30/23 23:15	12/01/23 22:44	EPA 3050B	1,6010D	CEY
Chromium, Total	8.43		mg/kg	1.01	0.097	2	11/30/23 23:15	12/01/23 22:44	EPA 3050B	1,6010D	CEY
Cobalt, Total	5.21		mg/kg	2.02	0.167	2	11/30/23 23:15	12/01/23 22:44	EPA 3050B	1,6010D	CEY
Copper, Total	48.1		mg/kg	1.01	0.260	2	11/30/23 23:15	12/01/23 22:44	EPA 3050B	1,6010D	CEY
Iron, Total	19300		mg/kg	5.04	0.911	2	11/30/23 23:15	12/01/23 22:44	EPA 3050B	1,6010D	CEY
Lead, Total	399		mg/kg	5.04	0.270	2	11/30/23 23:15	12/01/23 22:44	EPA 3050B	1,6010D	CEY
Magnesium, Total	1040		mg/kg	10.1	1.55	2	11/30/23 23:15	12/01/23 22:44	EPA 3050B	1,6010D	CEY
Manganese, Total	156		mg/kg	1.01	0.160	2	11/30/23 23:15	12/01/23 22:44	EPA 3050B	1,6010D	CEY
Mercury, Total	30.9		mg/kg	0.903	0.589	10	12/01/23 00:30	12/01/23 19:03	EPA 7471B	1,7471B	GMG
Nickel, Total	10.7		mg/kg	2.52	0.244	2	11/30/23 23:15	12/01/23 22:44	EPA 3050B	1,6010D	CEY
Potassium, Total	323		mg/kg	252	14.5	2	11/30/23 23:15	12/01/23 22:44	EPA 3050B	1,6010D	CEY
Selenium, Total	0.709	J	mg/kg	2.02	0.260	2	11/30/23 23:15	12/01/23 22:44	EPA 3050B	1,6010D	CEY
Silver, Total	ND		mg/kg	0.504	0.285	2	11/30/23 23:15	12/01/23 22:44	EPA 3050B	1,6010D	CEY
Sodium, Total	134	J	mg/kg	202	3.18	2	11/30/23 23:15	12/01/23 22:44	EPA 3050B	1,6010D	CEY
Thallium, Total	ND		mg/kg	2.02	0.318	2	11/30/23 23:15	12/01/23 22:44	EPA 3050B	1,6010D	CEY
Vanadium, Total	13.9		mg/kg	1.01	0.205	2	11/30/23 23:15	12/01/23 22:44	EPA 3050B	1,6010D	CEY
Zinc, Total	550		mg/kg	5.04	0.295	2	11/30/23 23:15	12/01/23 22:44	EPA 3050B	1,6010D	CEY

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** REPORT 3

Project Number: 23.3588 **Report Date:** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-05 Date Collected: 11/29/23 11:45

Client ID: GP-4 15-16 Date Received: 11/29/23

Sample Location: SCHENECTADY,NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5530		mg/kg	8.64	2.33	2	11/30/23 23:15	12/01/23 22:48	EPA 3050B	1,6010D	CEY
Antimony, Total	0.383	J	mg/kg	4.32	0.328	2	11/30/23 23:15	12/01/23 22:48	EPA 3050B	1,6010D	CEY
Arsenic, Total	2.09		mg/kg	0.864	0.180	2	11/30/23 23:15	12/01/23 22:48	EPA 3050B	1,6010D	CEY
Barium, Total	23.5		mg/kg	0.864	0.150	2	11/30/23 23:15	12/01/23 22:48	EPA 3050B	1,6010D	CEY
Beryllium, Total	0.327	J	mg/kg	0.432	0.029	2	11/30/23 23:15	12/01/23 22:48	EPA 3050B	1,6010D	CEY
Cadmium, Total	0.105	J	mg/kg	0.864	0.085	2	11/30/23 23:15	12/01/23 22:48	EPA 3050B	1,6010D	CEY
Calcium, Total	5460		mg/kg	8.64	3.02	2	11/30/23 23:15	12/01/23 22:48	EPA 3050B	1,6010D	CEY
Chromium, Total	5.52		mg/kg	0.864	0.083	2	11/30/23 23:15	12/01/23 22:48	EPA 3050B	1,6010D	CEY
Cobalt, Total	3.10		mg/kg	1.73	0.143	2	11/30/23 23:15	12/01/23 22:48	EPA 3050B	1,6010D	CEY
Copper, Total	9.77		mg/kg	0.864	0.223	2	11/30/23 23:15	12/01/23 22:48	EPA 3050B	1,6010D	CEY
Iron, Total	9480		mg/kg	4.32	0.780	2	11/30/23 23:15	12/01/23 22:48	EPA 3050B	1,6010D	CEY
Lead, Total	33.2		mg/kg	4.32	0.232	2	11/30/23 23:15	12/01/23 22:48	EPA 3050B	1,6010D	CEY
Magnesium, Total	1800		mg/kg	8.64	1.33	2	11/30/23 23:15	12/01/23 22:48	EPA 3050B	1,6010D	CEY
Manganese, Total	143		mg/kg	0.864	0.137	2	11/30/23 23:15	12/01/23 22:48	EPA 3050B	1,6010D	CEY
Mercury, Total	0.075	J	mg/kg	0.077	0.050	1	12/01/23 00:30	12/01/23 18:19	EPA 7471B	1,7471B	GMG
Nickel, Total	6.86		mg/kg	2.16	0.209	2	11/30/23 23:15	12/01/23 22:48	EPA 3050B	1,6010D	CEY
Potassium, Total	256		mg/kg	216	12.4	2	11/30/23 23:15	12/01/23 22:48	EPA 3050B	1,6010D	CEY
Selenium, Total	0.406	J	mg/kg	1.73	0.223	2	11/30/23 23:15	12/01/23 22:48	EPA 3050B	1,6010D	CEY
Silver, Total	ND		mg/kg	0.432	0.244	2	11/30/23 23:15	12/01/23 22:48	EPA 3050B	1,6010D	CEY
Sodium, Total	55.6	J	mg/kg	173	2.72	2	11/30/23 23:15	12/01/23 22:48	EPA 3050B	1,6010D	CEY
Thallium, Total	ND		mg/kg	1.73	0.272	2	11/30/23 23:15	12/01/23 22:48	EPA 3050B	1,6010D	CEY
Vanadium, Total	11.3		mg/kg	0.864	0.175	2	11/30/23 23:15	12/01/23 22:48	EPA 3050B	1,6010D	CEY
Zinc, Total	48.3		mg/kg	4.32	0.253	2	11/30/23 23:15	12/01/23 22:48	EPA 3050B	1,6010D	CEY

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** REPORT 3

Project Number: 23.3588 **Report Date:** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-06 Date Collected: 11/29/23 13:30

Client ID: GP-5 1-2 Date Received: 11/29/23

Sample Location: SCHENECTADY,NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4630		mg/kg	8.29	2.24	2	11/30/23 23:15	12/01/23 22:52	EPA 3050B	1,6010D	CEY
Antimony, Total	1.37	J	mg/kg	4.14	0.315	2	11/30/23 23:15	12/01/23 22:52	EPA 3050B	1,6010D	CEY
Arsenic, Total	8.12		mg/kg	0.829	0.172	2	11/30/23 23:15	12/01/23 22:52	EPA 3050B	1,6010D	CEY
Barium, Total	96.1		mg/kg	0.829	0.144	2	11/30/23 23:15	12/01/23 22:52	EPA 3050B	1,6010D	CEY
Beryllium, Total	0.456		mg/kg	0.414	0.027	2	11/30/23 23:15	12/01/23 22:52	EPA 3050B	1,6010D	CEY
Cadmium, Total	0.309	J	mg/kg	0.829	0.081	2	11/30/23 23:15	12/01/23 22:52	EPA 3050B	1,6010D	CEY
Calcium, Total	13000		mg/kg	8.29	2.90	2	11/30/23 23:15	12/01/23 22:52	EPA 3050B	1,6010D	CEY
Chromium, Total	8.11		mg/kg	0.829	0.080	2	11/30/23 23:15	12/01/23 22:52	EPA 3050B	1,6010D	CEY
Cobalt, Total	4.93		mg/kg	1.66	0.138	2	11/30/23 23:15	12/01/23 22:52	EPA 3050B	1,6010D	CEY
Copper, Total	51.6		mg/kg	0.829	0.214	2	11/30/23 23:15	12/01/23 22:52	EPA 3050B	1,6010D	CEY
Iron, Total	13300		mg/kg	4.14	0.749	2	11/30/23 23:15	12/01/23 22:52	EPA 3050B	1,6010D	CEY
Lead, Total	249		mg/kg	4.14	0.222	2	11/30/23 23:15	12/01/23 22:52	EPA 3050B	1,6010D	CEY
Magnesium, Total	1840		mg/kg	8.29	1.28	2	11/30/23 23:15	12/01/23 22:52	EPA 3050B	1,6010D	CEY
Manganese, Total	187		mg/kg	0.829	0.132	2	11/30/23 23:15	12/01/23 22:52	EPA 3050B	1,6010D	CEY
Mercury, Total	0.739		mg/kg	0.072	0.047	1	12/01/23 00:30	12/01/23 18:23	EPA 7471B	1,7471B	GMG
Nickel, Total	10.4		mg/kg	2.07	0.201	2	11/30/23 23:15	12/01/23 22:52	EPA 3050B	1,6010D	CEY
Potassium, Total	441		mg/kg	207	11.9	2	11/30/23 23:15	12/01/23 22:52	EPA 3050B	1,6010D	CEY
Selenium, Total	0.356	J	mg/kg	1.66	0.214	2	11/30/23 23:15	12/01/23 22:52	EPA 3050B	1,6010D	CEY
Silver, Total	ND		mg/kg	0.414	0.235	2	11/30/23 23:15	12/01/23 22:52	EPA 3050B	1,6010D	CEY
Sodium, Total	206		mg/kg	166	2.61	2	11/30/23 23:15	12/01/23 22:52	EPA 3050B	1,6010D	CEY
Thallium, Total	ND		mg/kg	1.66	0.261	2	11/30/23 23:15	12/01/23 22:52	EPA 3050B	1,6010D	CEY
Vanadium, Total	19.3		mg/kg	0.829	0.168	2	11/30/23 23:15	12/01/23 22:52	EPA 3050B	1,6010D	CEY
Zinc, Total	178		mg/kg	4.14	0.243	2	11/30/23 23:15	12/01/23 22:52	EPA 3050B	1,6010D	CEY

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** REPORT 3

Project Number: 23.3588 **Report Date:** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-07 Date Collected: 11/29/23 14:30

Client ID: GP-6 0-2 Date Received: 11/29/23

Sample Location: SCHENECTADY,NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	9160		mg/kg	9.27	2.50	2	11/30/23 23:15	12/01/23 22:57	EPA 3050B	1,6010D	CEY
Antimony, Total	1.18	J	mg/kg	4.63	0.352	2	11/30/23 23:15	12/01/23 22:57	EPA 3050B	1,6010D	CEY
Arsenic, Total	8.36		mg/kg	0.927	0.193	2	11/30/23 23:15	12/01/23 22:57	EPA 3050B	1,6010D	CEY
Barium, Total	42.5		mg/kg	0.927	0.161	2	11/30/23 23:15	12/01/23 22:57	EPA 3050B	1,6010D	CEY
Beryllium, Total	0.466		mg/kg	0.463	0.031	2	11/30/23 23:15	12/01/23 22:57	EPA 3050B	1,6010D	CEY
Cadmium, Total	0.367	J	mg/kg	0.927	0.091	2	11/30/23 23:15	12/01/23 22:57	EPA 3050B	1,6010D	CEY
Calcium, Total	104000		mg/kg	9.27	3.24	2	11/30/23 23:15	12/01/23 22:57	EPA 3050B	1,6010D	CEY
Chromium, Total	16.3		mg/kg	0.927	0.089	2	11/30/23 23:15	12/01/23 22:57	EPA 3050B	1,6010D	CEY
Cobalt, Total	11.8		mg/kg	1.85	0.154	2	11/30/23 23:15	12/01/23 22:57	EPA 3050B	1,6010D	CEY
Copper, Total	30.6		mg/kg	0.927	0.239	2	11/30/23 23:15	12/01/23 22:57	EPA 3050B	1,6010D	CEY
Iron, Total	26700		mg/kg	46.3	8.37	20	11/30/23 23:15	12/02/23 13:03	EPA 3050B	1,6010D	JMF
Lead, Total	101		mg/kg	4.63	0.248	2	11/30/23 23:15	12/01/23 22:57	EPA 3050B	1,6010D	CEY
Magnesium, Total	12400		mg/kg	9.27	1.43	2	11/30/23 23:15	12/01/23 22:57	EPA 3050B	1,6010D	CEY
Manganese, Total	447		mg/kg	0.927	0.147	2	11/30/23 23:15	12/01/23 22:57	EPA 3050B	1,6010D	CEY
Mercury, Total	0.126		mg/kg	0.078	0.051	1	12/01/23 00:30	12/01/23 18:26	EPA 7471B	1,7471B	GMG
Nickel, Total	29.4		mg/kg	2.32	0.224	2	11/30/23 23:15	12/01/23 22:57	EPA 3050B	1,6010D	CEY
Potassium, Total	611		mg/kg	232	13.3	2	11/30/23 23:15	12/01/23 22:57	EPA 3050B	1,6010D	CEY
Selenium, Total	ND		mg/kg	1.85	0.239	2	11/30/23 23:15	12/01/23 22:57	EPA 3050B	1,6010D	CEY
Silver, Total	ND		mg/kg	0.463	0.262	2	11/30/23 23:15	12/01/23 22:57	EPA 3050B	1,6010D	CEY
Sodium, Total	69.5	J	mg/kg	185	2.92	2	11/30/23 23:15	12/01/23 22:57	EPA 3050B	1,6010D	CEY
Thallium, Total	ND		mg/kg	1.85	0.292	2	11/30/23 23:15	12/01/23 22:57	EPA 3050B	1,6010D	CEY
Vanadium, Total	18.1		mg/kg	0.927	0.188	2	11/30/23 23:15	12/01/23 22:57	EPA 3050B	1,6010D	CEY
Zinc, Total	110		mg/kg	4.63	0.272	2	11/30/23 23:15	12/01/23 22:57	EPA 3050B	1,6010D	CEY

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe**

Project Number: 23.3588 **Report Date:** 12/06/23

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): 01-07 Batch: WG1858154-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	11/30/23 23:15	12/01/23 19:40	1,6010D	CEY
Antimony, Total	ND		mg/kg	2.00	0.152	1	11/30/23 23:15	12/01/23 19:40	1,6010D	CEY
Arsenic, Total	ND		mg/kg	0.400	0.083	1	11/30/23 23:15	12/01/23 19:40	1,6010D	CEY
Barium, Total	ND		mg/kg	0.400	0.070	1	11/30/23 23:15	12/01/23 19:40	1,6010D	CEY
Beryllium, Total	ND		mg/kg	0.200	0.013	1	11/30/23 23:15	12/01/23 19:40	1,6010D	CEY
Cadmium, Total	ND		mg/kg	0.400	0.039	1	11/30/23 23:15	12/01/23 19:40	1,6010D	CEY
Calcium, Total	ND		mg/kg	4.00	1.40	1	11/30/23 23:15	12/01/23 19:40	1,6010D	CEY
Chromium, Total	ND		mg/kg	0.400	0.038	1	11/30/23 23:15	12/01/23 19:40	1,6010D	CEY
Cobalt, Total	ND		mg/kg	0.800	0.066	1	11/30/23 23:15	12/01/23 19:40	1,6010D	CEY
Copper, Total	ND		mg/kg	0.400	0.103	1	11/30/23 23:15	12/01/23 19:40	1,6010D	CEY
Iron, Total	2.65		mg/kg	2.00	0.361	1	11/30/23 23:15	12/01/23 19:40	1,6010D	CEY
Lead, Total	ND		mg/kg	2.00	0.107	1	11/30/23 23:15	12/01/23 19:40	1,6010D	CEY
Magnesium, Total	ND		mg/kg	4.00	0.616	1	11/30/23 23:15	12/01/23 19:40	1,6010D	CEY
Manganese, Total	ND		mg/kg	0.400	0.064	1	11/30/23 23:15	12/01/23 19:40	1,6010D	CEY
Nickel, Total	ND		mg/kg	1.00	0.097	1	11/30/23 23:15	12/01/23 19:40	1,6010D	CEY
Potassium, Total	ND		mg/kg	100	5.76	1	11/30/23 23:15	12/01/23 19:40	1,6010D	CEY
Selenium, Total	ND		mg/kg	0.800	0.103	1	11/30/23 23:15	12/01/23 19:40	1,6010D	CEY
Silver, Total	ND		mg/kg	0.200	0.113	1	11/30/23 23:15	12/01/23 19:40	1,6010D	CEY
Sodium, Total	7.76	J	mg/kg	80.0	1.26	1	11/30/23 23:15	12/01/23 19:40	1,6010D	CEY
Thallium, Total	ND		mg/kg	0.800	0.126	1	11/30/23 23:15	12/01/23 19:40	1,6010D	CEY
Vanadium, Total	ND		mg/kg	0.400	0.081	1	11/30/23 23:15	12/01/23 19:40	1,6010D	CEY
Zinc, Total	ND		mg/kg	2.00	0.117	1	11/30/23 23:15	12/01/23 19:40	1,6010D	CEY

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): 01-07 Batch: WG1858155-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	12/01/23 00:30	12/01/23 17:17	1,7471B	GMG

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Date:** 12/06/23

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

REPORT 3

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE

Project Number: 23.3588

Lab Number: L2370406

Report Date: 12/06/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1858154-2 SRM Lot Number: D122-540								
Aluminum, Total	77		-		52-148	-		
Antimony, Total	139		-		6-194	-		
Arsenic, Total	98		-		81-119	-		
Barium, Total	102		-		83-117	-		
Beryllium, Total	107		-		83-117	-		
Cadmium, Total	97		-		83-117	-		
Calcium, Total	95		-		83-117	-		
Chromium, Total	103		-		82-118	-		
Cobalt, Total	97		-		84-117	-		
Copper, Total	92		-		84-116	-		
Iron, Total	96		-		65-135	-		
Lead, Total	97		-		83-117	-		
Magnesium, Total	86		-		80-120	-		
Manganese, Total	100		-		82-118	-		
Nickel, Total	100		-		83-117	-		
Potassium, Total	84		-		76-123	-		
Selenium, Total	102		-		81-119	-		
Silver, Total	100		-		80-120	-		
Sodium, Total	105		-		75-125	-		
Thallium, Total	99		-		81-119	-		
Vanadium, Total	94		-		80-120	-		

REPORT 3

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE

Project Number: 23.3588

Lab Number: L2370406

Report Date: 12/06/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1858154-2 SRM Lot Number: D122-540					
Zinc, Total	96	-	82-119	-	
Total Metals - Mansfield Lab Associated sample(s): 01-07 Batch: WG1858155-2 SRM Lot Number: D122-540					
Mercury, Total	117	-	73-127	-	

REPORT 3

Matrix Spike Analysis
Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

Lab Number: L2370406
Report Date: 12/06/23

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): 01-07 QC Batch ID: WG1858154-3 QC Sample: L2370366-01 Client ID: MS Sample												
Aluminum, Total	10900	167	12500	**958**	Q	-	-		75-125	-		20
Antimony, Total	0.917J	41.8	42.5	102		-	-		75-125	-		20
Arsenic, Total	6.16	10	16.5	103		-	-		75-125	-		20
Barium, Total	28.7	167	201	103		-	-		75-125	-		20
Beryllium, Total	0.472	4.18	4.92	106		-	-		75-125	-		20
Cadmium, Total	0.165J	4.43	4.46	101		-	-		75-125	-		20
Calcium, Total	3760	835	4260	**60**	Q	-	-		75-125	-		20
Chromium, Total	15.2	16.7	33.8	111		-	-		75-125	-		20
Cobalt, Total	10.2	41.8	52.5	101		-	-		75-125	-		20
Copper, Total	23.4	20.9	45.4	105		-	-		75-125	-		20
Iron, Total	24100	83.5	26400	**2750**	Q	-	-		75-125	-		20
Lead, Total	13.0	44.3	56.4	98		-	-		75-125	-		20
Magnesium, Total	6100	835	6610	**61**	Q	-	-		75-125	-		20
Manganese, Total	666	41.8	689	**55**	Q	-	-		75-125	-		20
Nickel, Total	22.6	41.8	64.7	101		-	-		75-125	-		20
Potassium, Total	360	835	1240	105		-	-		75-125	-		20
Selenium, Total	ND	10	10.0	100		-	-		75-125	-		20
Silver, Total	ND	4.18	4.40	105		-	-		75-125	-		20
Sodium, Total	31.8J	835	911	109		-	-		75-125	-		20
Thallium, Total	ND	10	10.0	100		-	-		75-125	-		20
Vanadium, Total	14.6	41.8	55.1	97		-	-		75-125	-		20

REPORT 3

Matrix Spike Analysis
Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

Lab Number: L2370406
Report Date: 12/06/23

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): 01-07 QC Batch ID: WG1858154-3 QC Sample: L2370366-01 Client ID: MS Sample									
Zinc, Total	75.6	41.8	121	109	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1858155-3 QC Sample: L2370366-01 Client ID: MS Sample									
Mercury, Total	0.237	1.39	1.44	86	-	-	80-120	-	20

REPORT 3

Lab Duplicate Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE

Project Number: 23.3588

Lab Number: L2370406

Report Date: 12/06/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1858154-4 QC Sample: L2370366-01 Client ID: DUP Sample						
Aluminum, Total	10900	12400	mg/kg	13		20
Antimony, Total	0.917J	1.23J	mg/kg	NC		20
Arsenic, Total	6.16	6.93	mg/kg	12		20
Barium, Total	28.7	33.4	mg/kg	15		20
Beryllium, Total	0.472	0.522	mg/kg	10		20
Cadmium, Total	0.165J	0.183J	mg/kg	NC		20
Calcium, Total	3760	3910	mg/kg	4		20
Chromium, Total	15.2	17.7	mg/kg	15		20
Cobalt, Total	10.2	12.3	mg/kg	19		20
Copper, Total	23.4	27.2	mg/kg	15		20
Iron, Total	24100	26400	mg/kg	9		20
Lead, Total	13.0	14.9	mg/kg	14		20
Magnesium, Total	6100	6270	mg/kg	3		20
Manganese, Total	666	734	mg/kg	10		20
Nickel, Total	22.6	26.1	mg/kg	14		20
Potassium, Total	360	397	mg/kg	10		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	31.8J	32.9J	mg/kg	NC		20

REPORT 3

Lab Duplicate Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE

Project Number: 23.3588

Lab Number: L2370406

Report Date: 12/06/23

Parameter	Native Sample	Duplicate Sample	Units	RPD		RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1858154-4 QC Sample: L2370366-01 Client ID: DUP Sample						
Thallium, Total	ND	ND	mg/kg	NC		20
Vanadium, Total	14.6	15.8	mg/kg	8		20
Zinc, Total	75.6	82.2	mg/kg	8		20
Total Metals - Mansfield Lab Associated sample(s): 01-07 QC Batch ID: WG1858155-4 QC Sample: L2370366-01 Client ID: DUP Sample						
Mercury, Total	0.237	0.074	mg/kg	**105**	Q	20

INORGANICS
&
MISCELLANEOUS

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numb** REPORT 3

Project Number: 23.3588 **Report Date:** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-01 Date Collected: 11/29/23 09:30
Client ID: GP-1 13-16.5 Date Received: 11/29/23
Sample Location: SCHENECTADY,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	87.1		%	0.100	NA	1	-	11/30/23 10:51	121,2540G	GAG

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numb** REPORT 3

Project Number: 23.3588 **Report Date:** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-02 Date Collected: 11/29/23 15:30
Client ID: GP-2 7-7.5 Date Received: 11/29/23
Sample Location: SCHENECTADY,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	75.0		%	0.100	NA	1	-	11/30/23 10:51	121,2540G	GAG

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numb** REPORT 3

Project Number: 23.3588 **Report Date:** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-03 Date Collected: 11/29/23 10:30
Client ID: GP-3 4-5 Date Received: 11/29/23
Sample Location: SCHENECTADY,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	87.8		%	0.100	NA	1	-	11/30/23 15:19	121,2540G	SJB

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numb** REPORT 3

Project Number: 23.3588 **Report Date:** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-04 Date Collected: 11/29/23 11:30
Client ID: GP-4 10-11 Date Received: 11/29/23
Sample Location: SCHENECTADY,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	78.2		%	0.100	NA	1	-	11/30/23 15:19	121,2540G	SJB

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numb** REPORT 3

Project Number: 23.3588 **Report Date:** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-05 Date Collected: 11/29/23 11:45
Client ID: GP-4 15-16 Date Received: 11/29/23
Sample Location: SCHENECTADY,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	87.8		%	0.100	NA	1	-	11/30/23 15:19	121,2540G	SJB

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numb** REPORT 3

Project Number: 23.3588 **Report Date:** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-06 Date Collected: 11/29/23 13:30
Client ID: GP-5 1-2 Date Received: 11/29/23
Sample Location: SCHENECTADY,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	90.9		%	0.100	NA	1	-	11/30/23 15:19	121,2540G	SJB

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numb** REPORT 3

Project Number: 23.3588 **Report Date:** 12/06/23

SAMPLE RESULTS

Lab ID: L2370406-07 Date Collected: 11/29/23 14:30
Client ID: GP-6 0-2 Date Received: 11/29/23
Sample Location: SCHENECTADY,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	83.2		%	0.100	NA	1	-	11/30/23 15:19	121,2540G	SJB

REPORT 3

Lab Duplicate Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE

Project Number: 23.3588

Lab Number: L2370406

Report Date: 12/06/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1858097-1 QC Sample: L2370378-01 Client ID: DUP Sample						
Solids, Total	94.8	94.8	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 03-07 QC Batch ID: WG1858242-1 QC Sample: L2370240-01 Client ID: DUP Sample						
Solids, Total	78.4	77.6	%	1		20

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

REPORT 3

Lab Number: L2370406
Report Date: 12/06/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent
B	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2370406-01A	Vial MeOH preserved	A	NA		4.8	Y	Absent		NYTCL-8260HLW-R2(14)
L2370406-01B	Vial water preserved	A	NA		4.8	Y	Absent	30-NOV-23 04:44	NYTCL-8260HLW-R2(14)
L2370406-01C	Vial water preserved	A	NA		4.8	Y	Absent	30-NOV-23 04:44	NYTCL-8260HLW-R2(14)
L2370406-01D	Plastic 2oz unpreserved for TS	B	NA		4.8	Y	Absent		TS(7)
L2370406-01E	Plastic 2oz unpreserved for TS	B	NA		4.8	Y	Absent		TS(7)
L2370406-01F	Plastic 120ml unpreserved	A	NA		4.8	Y	Absent		TS(7)
L2370406-01G	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.8	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),SB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),K-TI(180),CD-TI(180),NA-TI(180),CA-TI(180)
L2370406-01H	Glass 60mL/2oz unpreserved	B	NA		4.8	Y	Absent		NYCP51-PAH(14),NYTCL-8082(365)
L2370406-01I	Glass 120ml/4oz unpreserved	B	NA		4.8	Y	Absent		NYCP51-PAH(14),NYTCL-8082(365)
L2370406-02A	Vial MeOH preserved	A	NA		4.8	Y	Absent		NYTCL-8260HLW-R2(14)
L2370406-02B	Vial water preserved	A	NA		4.8	Y	Absent	30-NOV-23 04:44	NYTCL-8260HLW-R2(14)
L2370406-02C	Vial water preserved	A	NA		4.8	Y	Absent	30-NOV-23 04:44	NYTCL-8260HLW-R2(14)
L2370406-02D	Plastic 2oz unpreserved for TS	B	NA		4.8	Y	Absent		TS(7)
L2370406-02E	Plastic 120ml unpreserved	A	NA		4.8	Y	Absent		TS(7)
L2370406-02F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.8	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),PB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2370406-02G	Glass 120ml/4oz unpreserved	B	NA		4.8	Y	Absent		NYCP51-PAH(14)
L2370406-03A	Vial MeOH preserved	A	NA		4.8	Y	Absent		NYTCL-8260HLW-R2(14)

*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(*)
L2370406-03B	Vial water preserved	A	NA		4.8	Y	Absent	30-NOV-23 04:44	NYTCL-8260HLW-R2(14)
L2370406-03C	Vial water preserved	A	NA		4.8	Y	Absent	30-NOV-23 04:44	NYTCL-8260HLW-R2(14)
L2370406-03D	Plastic 2oz unpreserved for TS	B	NA		4.8	Y	Absent		TS(7)
L2370406-03E	Plastic 120ml unpreserved	A	NA		4.8	Y	Absent		TS(7)
L2370406-03F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),PB-TI(180),CU-TI(180),CO-TI(180),V-TI(180),MG-TI(180),HG-T(28),MN-TI(180),FE-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2370406-03G	Glass 120ml/4oz unpreserved	B	NA		4.8	Y	Absent		NYCP51-PAH(14)
L2370406-04A	Vial MeOH preserved	A	NA		4.8	Y	Absent		NYTCL-8260HLW-R2(14)
L2370406-04B	Vial water preserved	A	NA		4.8	Y	Absent	30-NOV-23 04:44	NYTCL-8260HLW-R2(14)
L2370406-04C	Vial water preserved	A	NA		4.8	Y	Absent	30-NOV-23 04:44	NYTCL-8260HLW-R2(14)
L2370406-04D	Plastic 2oz unpreserved for TS	B	NA		4.8	Y	Absent		TS(7)
L2370406-04E	Plastic 120ml unpreserved	A	NA		4.8	Y	Absent		TS(7)
L2370406-04F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.8	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),HG-T(28),MN-TI(180),NA-TI(180),CD-TI(180),K-TI(180),CA-TI(180)
L2370406-04G	Glass 120ml/4oz unpreserved	B	NA		4.8	Y	Absent		NYCP51-PAH(14)
L2370406-05A	Vial MeOH preserved	A	NA		4.8	Y	Absent		NYTCL-8260HLW-R2(14)
L2370406-05B	Vial water preserved	A	NA		4.8	Y	Absent	30-NOV-23 04:44	NYTCL-8260HLW-R2(14)
L2370406-05C	Vial water preserved	A	NA		4.8	Y	Absent	30-NOV-23 04:44	NYTCL-8260HLW-R2(14)
L2370406-05D	Plastic 2oz unpreserved for TS	B	NA		4.8	Y	Absent		TS(7)
L2370406-05E	Plastic 120ml unpreserved	A	NA		4.8	Y	Absent		TS(7)
L2370406-05F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),PB-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),NA-TI(180),CD-TI(180),CA-TI(180),K-TI(180)
L2370406-05G	Glass 120ml/4oz unpreserved	B	NA		4.8	Y	Absent		NYCP51-PAH(14)
L2370406-06A	Vial MeOH preserved	A	NA		4.8	Y	Absent		NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

REPORT 3

Lab Number: L2370406
Report Date: 12/06/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2370406-06B	Vial water preserved	A	NA		4.8	Y	Absent	30-NOV-23 04:44	NYTCL-8260HLW-R2(14)
L2370406-06C	Vial water preserved	A	NA		4.8	Y	Absent	30-NOV-23 04:44	NYTCL-8260HLW-R2(14)
L2370406-06D	Plastic 2oz unpreserved for TS	B	NA		4.8	Y	Absent		TS(7)
L2370406-06E	Plastic 120ml unpreserved	A	NA		4.8	Y	Absent		TS(7)
L2370406-06F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.8	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),ZN-TI(180),PB-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),MN-TI(180),HG-T(28),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2370406-06G	Glass 120ml/4oz unpreserved	B	NA		4.8	Y	Absent		NYCP51-PAH(14)
L2370406-07A	Vial MeOH preserved	A	NA		4.8	Y	Absent		NYTCL-8260HLW-R2(14)
L2370406-07B	Vial water preserved	A	NA		4.8	Y	Absent	30-NOV-23 04:44	NYTCL-8260HLW-R2(14)
L2370406-07C	Vial water preserved	A	NA		4.8	Y	Absent	30-NOV-23 04:44	NYTCL-8260HLW-R2(14)
L2370406-07D	Plastic 2oz unpreserved for TS	B	NA		4.8	Y	Absent		TS(7)
L2370406-07E	Plastic 120ml unpreserved	A	NA		4.8	Y	Absent		TS(7)
L2370406-07F	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.8	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),SB-TI(180),ZN-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),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2370406-07G	Glass 120ml/4oz unpreserved	B	NA		4.8	Y	Absent		NYCP51-PAH(14)

*Values in parentheses indicate holding time in days

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** L REPORT 3

Project Number: 23.3588 **Report Date:** 12/06/23

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

Project Name:	SCHENECTADY 40 ANCHOR SITE	**Lab Number:**	L REPORT 3
Project Number:	23.3588	**Report Date:**	12/06/23

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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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 for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

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

Report Format: DU Report with 'J' Qualifiers

Project Name:	SCHENECTADY 40 ANCHOR SITE	**Lab Number:**	L REPORT 3
Project Number:	23.3588	**Report Date:**	12/06/23

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

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 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.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588
Lab Number: L2 **REPORT 3**
Report Date: 12/06/23

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 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
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 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).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

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, EPA 537.1.

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.

REPORT 3

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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: 11/30/23

ALPHA Job #: L2370406

Client Information

Client: C.T. Male Associates
Address: 50 Century Hill Drive, Latham, NY 12110
Phone: (518) 786-7400
Fax:
Email: A.Smith@ctmale.com

Project Information

Project Name: Schenectady 40 Anchor Site
Project Location: Schenectady, NY
Project #: 23.3588
(Use Project name as Project #) ☐
Project Manager: Aimee Smith
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☒ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

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.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	TCL/CP-51 VOCs by 8260	CP-51 SVOCs by 8270	TAL Metals	PCBs by 8082	Total Bottle
70406-01	GP-1 13-16.5	11/29/23	0930	S	RH	X	X	X	X	9
02	GP-2 7-7.5		1530		RH	X	X	X		7
03	GP-3 4-5		1030		RH	X	X	X		7
04	GP-4 10-11		1130		RH	X	X	X		7
05	GP-4 15-16		1145		RH	X	X	X		7
06	GP-5 1-2		1330		RH	X	X	X		7
07	GP-6 0-2		1430		RH	X	X	X		7

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

Container Type	P V	A	A	A		
Preservative	A F O	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
	11/29/23 1745	Secure Storage ALB	11/29/23 1745
Secure Storage ALB	11/29/23 2114		11/29/23 2114
	11/29/23 2114		11/30/23 00:30

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 G

Laboratory Analysis Report for Groundwater

ANALYTICAL REPORT

Lab Number:	L2370570
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12110
ATTN:	Aimee Smith
Phone:	(518) 786-7400
Project Name:	SCHENECTADY 40 ANCHOR SITE
Project Number:	23.3588
Report Date:	12/07/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

REPORT 3

Lab Number: L2370570
Report Date: 12/07/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2370570-01	TRIP BLANK	WATER	SCHENECTADY, NY	11/30/23 00:00	11/30/23
L2370570-02	MW-1	WATER	SCHENECTADY, NY	11/30/23 10:10	11/30/23
L2370570-03	MW-3	WATER	SCHENECTADY, NY	11/30/23 10:55	11/30/23
L2370570-04	MW-4	WATER	SCHENECTADY, NY	11/30/23 11:45	11/30/23
L2370570-05	MW-6	WATER	SCHENECTADY, NY	11/30/23 12:30	11/30/23

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Num** REPORT 3

Project Number: 23.3588 **Report Date:** 12/07/23

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: SCHENECTADY 40 ANCHOR SITE **Lab Num** REPORT 3
Project Number: 23.3588 **Report Date:** 12/07/23

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

L2370570-04: The collection date and time on the chain of custody was 30-NOV-23 11:45; however, the collection date/time on the container label was 30-NOV-23 12:30. At the client's request, the collection date/time is reported as 30-NOV-23 11:45.

L2370570-05: The collection date and time on the chain of custody was 30-NOV-23 12:30; however, the collection date/time on the container label was 30-NOV-23 11:45. At the client's request, the collection date/time is reported as 30-NOV-23 12:30.

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: 12/07/23

ORGANICS

VOLATILES

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Dat.** 12/07/23

SAMPLE RESULTS

Lab ID: L2370570-01
Client ID: TRIP BLANK
Sample Location: SCHENECTADY, NY

Date Collected: 11/30/23 00:00
Date Received: 11/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/02/23 11:03
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Date:** 12/07/23

SAMPLE RESULTS

Lab ID: L2370570-01 Date Collected: 11/30/23 00:00
Client ID: TRIP BLANK Date Received: 11/30/23
Sample Location: SCHENECTADY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	115		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	112		70-130

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Dat.** 12/07/23

SAMPLE RESULTS

Lab ID: L2370570-02
Client ID: MW-1
Sample Location: SCHENECTADY, NY

Date Collected: 11/30/23 10:10
Date Received: 11/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/02/23 10:41
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Date:** 12/07/23

SAMPLE RESULTS

Lab ID: L2370570-02 Date Collected: 11/30/23 10:10
Client ID: MW-1 Date Received: 11/30/23
Sample Location: SCHENECTADY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	109		70-130

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Dat.** 12/07/23

SAMPLE RESULTS

Lab ID: L2370570-03
Client ID: MW-3
Sample Location: SCHENECTADY, NY

Date Collected: 11/30/23 10:55
Date Received: 11/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/02/23 10:19
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Date:** 12/07/23

SAMPLE RESULTS

Lab ID: L2370570-03 Date Collected: 11/30/23 10:55
Client ID: MW-3 Date Received: 11/30/23
Sample Location: SCHENECTADY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	109		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	108		70-130

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Dat** 12/07/23

SAMPLE RESULTS

Lab ID: L2370570-04
Client ID: MW-4
Sample Location: SCHENECTADY, NY

Date Collected: 11/30/23 11:45
Date Received: 11/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/02/23 09:57
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Dat.** 12/07/23

SAMPLE RESULTS

Lab ID: L2370570-04 Date Collected: 11/30/23 11:45
Client ID: MW-4 Date Received: 11/30/23
Sample Location: SCHENECTADY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	5.9		ug/l	2.5	0.70	1
sec-Butylbenzene	4.8		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	3.8		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	12		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	28		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	109		70-130

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Dat** 12/07/23

SAMPLE RESULTS

Lab ID: L2370570-05
Client ID: MW-6
Sample Location: SCHENECTADY, NY

Date Collected: 11/30/23 12:30
Date Received: 11/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8260D
Analytical Date: 12/02/23 09:34
Analyst: MJV

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.14	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.17	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Date:** 12/07/23

SAMPLE RESULTS

Lab ID: L2370570-05 Date Collected: 11/30/23 12:30
Client ID: MW-6 Date Received: 11/30/23
Sample Location: SCHENECTADY, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
Carbon disulfide	ND		ug/l	5.0	1.0	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
2-Hexanone	ND		ug/l	5.0	1.0	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1
Methyl Acetate	ND		ug/l	2.0	0.23	1
Cyclohexane	ND		ug/l	10	0.27	1
Freon-113	ND		ug/l	2.5	0.70	1
Methyl cyclohexane	ND		ug/l	10	0.40	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	111		70-130

REPORT 3

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Nur**)

Project Number: 23.3588 **Report Date:** 12/07/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/02/23 07:34
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1860001-5					
Methylene chloride	ND		ug/l	2.5	0.70
1,1-Dichloroethane	ND		ug/l	2.5	0.70
Chloroform	ND		ug/l	2.5	0.70
Carbon tetrachloride	ND		ug/l	0.50	0.13
1,2-Dichloropropane	ND		ug/l	1.0	0.14
Dibromochloromethane	ND		ug/l	0.50	0.15
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50
Tetrachloroethene	ND		ug/l	0.50	0.18
Chlorobenzene	ND		ug/l	2.5	0.70
Trichlorofluoromethane	ND		ug/l	2.5	0.70
1,2-Dichloroethane	ND		ug/l	0.50	0.13
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70
Bromodichloromethane	ND		ug/l	0.50	0.19
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14
Bromoform	ND		ug/l	2.0	0.65
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.17
Benzene	ND		ug/l	0.50	0.16
Toluene	ND		ug/l	2.5	0.70
Ethylbenzene	ND		ug/l	2.5	0.70
Chloromethane	ND		ug/l	2.5	0.70
Bromomethane	ND		ug/l	2.5	0.70
Vinyl chloride	ND		ug/l	1.0	0.07
Chloroethane	ND		ug/l	2.5	0.70
1,1-Dichloroethene	ND		ug/l	0.50	0.17
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Trichloroethene	ND		ug/l	0.50	0.18
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70

REPORT 3

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Nur**)

Project Number: 23.3588 **Report Date:** 12/07/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/02/23 07:34
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1860001-5					
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70
Methyl tert butyl ether	ND		ug/l	2.5	0.70
p/m-Xylene	ND		ug/l	2.5	0.70
o-Xylene	ND		ug/l	2.5	0.70
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70
Styrene	ND		ug/l	2.5	0.70
Dichlorodifluoromethane	ND		ug/l	5.0	1.0
Acetone	ND		ug/l	5.0	1.5
Carbon disulfide	ND		ug/l	5.0	1.0
2-Butanone	ND		ug/l	5.0	1.9
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0
2-Hexanone	ND		ug/l	5.0	1.0
1,2-Dibromoethane	ND		ug/l	2.0	0.65
n-Butylbenzene	ND		ug/l	2.5	0.70
sec-Butylbenzene	ND		ug/l	2.5	0.70
tert-Butylbenzene	ND		ug/l	2.5	0.70
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70
Isopropylbenzene	ND		ug/l	2.5	0.70
p-Isopropyltoluene	ND		ug/l	2.5	0.70
Naphthalene	ND		ug/l	2.5	0.70
n-Propylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70
Methyl Acetate	ND		ug/l	2.0	0.23
Cyclohexane	ND		ug/l	10	0.27
Freon-113	ND		ug/l	2.5	0.70
Methyl cyclohexane	ND		ug/l	10	0.40

REPORT 3

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Nu**)

Project Number: 23.3588 **Report Date:** 12/07/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 12/02/23 07:34
Analyst: TMS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-05 Batch: WG1860001-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	111		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	109		70-130

REPORT 3

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE

Project Number: 23.3588

Lab Number: L2370570

Report Date: 12/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1860001-3 WG1860001-4								
Methylene chloride	100		110		70-130	10		20
1,1-Dichloroethane	100		110		70-130	10		20
Chloroform	110		110		70-130	0		20
Carbon tetrachloride	120		120		63-132	0		20
1,2-Dichloropropane	100		100		70-130	0		20
Dibromochloromethane	100		110		63-130	10		20
1,1,2-Trichloroethane	100		100		70-130	0		20
Tetrachloroethene	110		110		70-130	0		20
Chlorobenzene	100		100		75-130	0		20
Trichlorofluoromethane	110		110		62-150	0		20
1,2-Dichloroethane	110		110		70-130	0		20
1,1,1-Trichloroethane	110		110		67-130	0		20
Bromodichloromethane	100		110		67-130	10		20
trans-1,3-Dichloropropene	100		110		70-130	10		20
cis-1,3-Dichloropropene	100		100		70-130	0		20
Bromoform	110		110		54-136	0		20
1,1,2,2-Tetrachloroethane	100		99		67-130	1		20
Benzene	100		100		70-130	0		20
Toluene	100		100		70-130	0		20
Ethylbenzene	100		100		70-130	0		20
Chloromethane	94		97		64-130	3		20
Bromomethane	96		99		39-139	3		20
Vinyl chloride	88		92		55-140	4		20

REPORT 3

Lab Control Sample Analysis
Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

Lab Number: L2370570
Report Date: 12/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1860001-3 WG1860001-4								
Chloroethane	100		100		55-138	0		20
1,1-Dichloroethene	100		100		61-145	0		20
trans-1,2-Dichloroethene	100		100		70-130	0		20
Trichloroethene	110		110		70-130	0		20
1,2-Dichlorobenzene	110		110		70-130	0		20
1,3-Dichlorobenzene	110		110		70-130	0		20
1,4-Dichlorobenzene	110		110		70-130	0		20
Methyl tert butyl ether	100		100		63-130	0		20
p/m-Xylene	105		105		70-130	0		20
o-Xylene	105		105		70-130	0		20
cis-1,2-Dichloroethene	100		110		70-130	10		20
Styrene	105		105		70-130	0		20
Dichlorodifluoromethane	83		86		36-147	4		20
Acetone	120		120		58-148	0		20
Carbon disulfide	97		100		51-130	3		20
2-Butanone	100		110		63-138	10		20
4-Methyl-2-pentanone	93		94		59-130	1		20
2-Hexanone	96		99		57-130	3		20
1,2-Dibromoethane	110		100		70-130	10		20
n-Butylbenzene	110		110		53-136	0		20
sec-Butylbenzene	110		110		70-130	0		20
tert-Butylbenzene	110		110		70-130	0		20
1,2-Dibromo-3-chloropropane	100		100		41-144	0		20

REPORT 3

Lab Control Sample Analysis
Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

Lab Number: L2370570
Report Date: 12/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-05 Batch: WG1860001-3 WG1860001-4								
Isopropylbenzene	110		100		70-130	10		20
p-Isopropyltoluene	110		110		70-130	0		20
Naphthalene	99		98		70-130	1		20
n-Propylbenzene	110		100		69-130	10		20
1,2,4-Trichlorobenzene	110		110		70-130	0		20
1,3,5-Trimethylbenzene	110		110		64-130	0		20
1,2,4-Trimethylbenzene	110		100		70-130	10		20
Methyl Acetate	100		110		70-130	10		20
Cyclohexane	100		110		70-130	10		20
Freon-113	100		110		70-130	10		20
Methyl cyclohexane	100		100		70-130	0		20

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	110		112		70-130
Toluene-d8	102		100		70-130
4-Bromofluorobenzene	101		98		70-130
Dibromofluoromethane	107		107		70-130

SEMIVOLATILES

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Date:** 12/07/23

SAMPLE RESULTS

Lab ID: L2370570-02
Client ID: MW-1
Sample Location: SCHENECTADY, NY

Date Collected: 11/30/23 10:10
Date Received: 11/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 12/05/23 15:03
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 12/04/23 05:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.02	J	ug/l	0.10	0.01	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.03	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	0.02	J	ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	0.02	J	ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	103		23-120
2-Fluorobiphenyl	87		15-120
4-Terphenyl-d14	96		41-149

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Date:** 12/07/23

SAMPLE RESULTS

Lab ID: L2370570-03
Client ID: MW-3
Sample Location: SCHENECTADY, NY

Date Collected: 11/30/23 10:55
Date Received: 11/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 12/05/23 15:36
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 12/04/23 05:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
Fluoranthene	0.06	J	ug/l	0.10	0.02	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.03	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.02	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.04	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Chrysene	0.02	J	ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	0.04	J	ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.02	J	ug/l	0.10	0.01	1
Pyrene	0.05	J	ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	62		15-120
4-Terphenyl-d14	82		41-149

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Date:** 12/07/23

SAMPLE RESULTS

Lab ID: L2370570-04
Client ID: MW-4
Sample Location: SCHENECTADY, NY

Date Collected: 11/30/23 11:45
Date Received: 11/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 12/05/23 15:52
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 12/04/23 05:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	0.13		ug/l	0.10	0.01	1
Fluoranthene	0.20		ug/l	0.10	0.02	1
Naphthalene	0.15		ug/l	0.10	0.05	1
Benzo(a)anthracene	0.05	J	ug/l	0.10	0.02	1
Benzo(a)pyrene	0.03	J	ug/l	0.10	0.02	1
Benzo(b)fluoranthene	0.04	J	ug/l	0.10	0.01	1
Benzo(k)fluoranthene	0.01	J	ug/l	0.10	0.01	1
Chrysene	0.03	J	ug/l	0.10	0.01	1
Acenaphthylene	0.05	J	ug/l	0.10	0.01	1
Anthracene	0.06	J	ug/l	0.10	0.01	1
Benzo(ghi)perylene	0.02	J	ug/l	0.10	0.01	1
Fluorene	0.11		ug/l	0.10	0.01	1
Phenanthrene	0.34		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	0.02	J	ug/l	0.10	0.01	1
Pyrene	0.15		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	67		15-120
4-Terphenyl-d14	89		41-149

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Date:** 12/07/23

SAMPLE RESULTS

Lab ID: L2370570-05
Client ID: MW-6
Sample Location: SCHENECTADY, NY

Date Collected: 11/30/23 12:30
Date Received: 11/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8270E-SIM
Analytical Date: 12/05/23 16:08
Analyst: DV

Extraction Method: EPA 3510C
Extraction Date: 12/04/23 05:51

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS-SIM - Westborough Lab						
Acenaphthene	ND		ug/l	0.10	0.01	1
Fluoranthene	ND		ug/l	0.10	0.02	1
Naphthalene	ND		ug/l	0.10	0.05	1
Benzo(a)anthracene	ND		ug/l	0.10	0.02	1
Benzo(a)pyrene	ND		ug/l	0.10	0.02	1
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01	1
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01	1
Chrysene	ND		ug/l	0.10	0.01	1
Acenaphthylene	ND		ug/l	0.10	0.01	1
Anthracene	ND		ug/l	0.10	0.01	1
Benzo(ghi)perylene	ND		ug/l	0.10	0.01	1
Fluorene	ND		ug/l	0.10	0.01	1
Phenanthrene	ND		ug/l	0.10	0.02	1
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01	1
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01	1
Pyrene	ND		ug/l	0.10	0.02	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	58		15-120
4-Terphenyl-d14	58		41-149

REPORT 3

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Nur**)

Project Number: 23.3588 **Report Date:** 12/07/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E-SIM
Analytical Date: 12/05/23 14:47
Analyst: RP

Extraction Method: EPA 3510C
Extraction Date: 12/04/23 05:51

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS-SIM - Westborough Lab for sample(s): 02-05 Batch: WG1859310-1					
Acenaphthene	ND		ug/l	0.10	0.01
Fluoranthene	ND		ug/l	0.10	0.02
Naphthalene	ND		ug/l	0.10	0.05
Benzo(a)anthracene	0.03	J	ug/l	0.10	0.02
Benzo(a)pyrene	ND		ug/l	0.10	0.02
Benzo(b)fluoranthene	ND		ug/l	0.10	0.01
Benzo(k)fluoranthene	ND		ug/l	0.10	0.01
Chrysene	ND		ug/l	0.10	0.01
Acenaphthylene	ND		ug/l	0.10	0.01
Anthracene	ND		ug/l	0.10	0.01
Benzo(ghi)perylene	ND		ug/l	0.10	0.01
Fluorene	ND		ug/l	0.10	0.01
Phenanthrene	ND		ug/l	0.10	0.02
Dibenzo(a,h)anthracene	ND		ug/l	0.10	0.01
Indeno(1,2,3-cd)pyrene	ND		ug/l	0.10	0.01
Pyrene	ND		ug/l	0.10	0.02

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	89		23-120
2-Fluorobiphenyl	78		15-120
4-Terphenyl-d14	103		41-149

REPORT 3

Lab Control Sample Analysis
Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

Lab Number: L2370570
Report Date: 12/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS-SIM - Westborough Lab Associated sample(s): 02-05 Batch: WG1859310-2 WG1859310-3								
Acenaphthene	63		65		40-140	3		40
Fluoranthene	70		71		40-140	1		40
Naphthalene	62		63		40-140	2		40
Benzo(a)anthracene	71		74		40-140	4		40
Benzo(a)pyrene	74		76		40-140	3		40
Benzo(b)fluoranthene	77		84		40-140	9		40
Benzo(k)fluoranthene	76		74		40-140	3		40
Chrysene	66		68		40-140	3		40
Acenaphthylene	64		66		40-140	3		40
Anthracene	71		73		40-140	3		40
Benzo(ghi)perylene	74		77		40-140	4		40
Fluorene	64		66		40-140	3		40
Phenanthrene	67		69		40-140	3		40
Dibenzo(a,h)anthracene	81		84		40-140	4		40
Indeno(1,2,3-cd)pyrene	83		88		40-140	6		40
Pyrene	70		70		40-140	0		40

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Nitrobenzene-d5	80		80		23-120
2-Fluorobiphenyl	65		64		15-120
4-Terphenyl-d14	70		68		41-149

PCBS

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Dat.** 12/07/23

SAMPLE RESULTS

Lab ID: L2370570-02
Client ID: MW-1
Sample Location: SCHENECTADY, NY

Date Collected: 11/30/23 10:10
Date Received: 11/30/23
Field Prep: Not Specified

Sample Depth:
Matrix: Water
Analytical Method: 1,8082A
Analytical Date: 12/05/23 12:38
Analyst: ER

Extraction Method: EPA 3510C
Extraction Date: 12/04/23 09:33
Cleanup Method: EPA 3665A
Cleanup Date: 12/04/23
Cleanup Method: EPA 3660B
Cleanup Date: 12/04/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/l	0.071	0.061	1	A
Aroclor 1221	ND		ug/l	0.071	0.061	1	A
Aroclor 1232	ND		ug/l	0.071	0.061	1	A
Aroclor 1242	ND		ug/l	0.071	0.061	1	A
Aroclor 1248	ND		ug/l	0.071	0.061	1	A
Aroclor 1254	ND		ug/l	0.071	0.061	1	A
Aroclor 1260	ND		ug/l	0.071	0.061	1	A
Aroclor 1262	ND		ug/l	0.071	0.061	1	A
Aroclor 1268	ND		ug/l	0.071	0.061	1	A
PCBs, Total	ND		ug/l	0.071	0.061	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	45		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	43		30-150	B

REPORT 3

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Nur**)

Project Number: 23.3588 **Report Date:** 12/07/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 12/04/23 12:31
Analyst: AD

Extraction Method: EPA 3510C
Extraction Date: 12/03/23 12:29
Cleanup Method: EPA 3665A
Cleanup Date: 12/04/23
Cleanup Method: EPA 3660B
Cleanup Date: 12/04/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 02 Batch: WG1859174-1						
Aroclor 1016	ND		ug/l	0.071	0.061	A
Aroclor 1221	ND		ug/l	0.071	0.061	A
Aroclor 1232	ND		ug/l	0.071	0.061	A
Aroclor 1242	ND		ug/l	0.071	0.061	A
Aroclor 1248	ND		ug/l	0.071	0.061	A
Aroclor 1254	ND		ug/l	0.071	0.061	A
Aroclor 1260	ND		ug/l	0.071	0.061	A
Aroclor 1262	ND		ug/l	0.071	0.061	A
Aroclor 1268	ND		ug/l	0.071	0.061	A
PCBs, Total	ND		ug/l	0.071	0.061	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	63		30-150	B

REPORT 3

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE

Project Number: 23.3588

Lab Number: L2370570

Report Date: 12/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 02 Batch: WG1859174-2 WG1859174-3									
Aroclor 1016	65		62		40-140	4		50	A
Aroclor 1260	58		59		40-140	2		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		68		30-150	A
Decachlorobiphenyl	56		66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		72		30-150	B
Decachlorobiphenyl	64		67		30-150	B

METALS

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** REPORT 3

Project Number: 23.3588 **Report Date:** 12/07/23

SAMPLE RESULTS

Lab ID: L2370570-02 Date Collected: 11/30/23 10:10

Client ID: MW-1 Date Received: 11/30/23

Sample Location: SCHENECTADY, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3.05		mg/l	0.0100	0.00327	1	12/01/23 18:11	12/04/23 00:03	EPA 3005A	1,6020B	WKP
Antimony, Total	ND		mg/l	0.00400	0.00042	1	12/01/23 18:11	12/04/23 00:03	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00427		mg/l	0.00050	0.00016	1	12/01/23 18:11	12/04/23 00:03	EPA 3005A	1,6020B	WKP
Barium, Total	0.1166		mg/l	0.00050	0.00017	1	12/01/23 18:11	12/04/23 00:03	EPA 3005A	1,6020B	WKP
Beryllium, Total	0.00036	J	mg/l	0.00050	0.00010	1	12/01/23 18:11	12/04/23 00:03	EPA 3005A	1,6020B	WKP
Cadmium, Total	0.00020		mg/l	0.00020	0.00005	1	12/01/23 18:11	12/04/23 00:03	EPA 3005A	1,6020B	WKP
Calcium, Total	207.		mg/l	0.100	0.0394	1	12/01/23 18:11	12/04/23 00:03	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00642		mg/l	0.00100	0.00017	1	12/01/23 18:11	12/04/23 00:03	EPA 3005A	1,6020B	WKP
Cobalt, Total	0.00567		mg/l	0.00050	0.00016	1	12/01/23 18:11	12/04/23 00:03	EPA 3005A	1,6020B	WKP
Copper, Total	0.01518		mg/l	0.00100	0.00038	1	12/01/23 18:11	12/04/23 00:03	EPA 3005A	1,6020B	WKP
Iron, Total	9.44		mg/l	0.0500	0.0191	1	12/01/23 18:11	12/04/23 00:03	EPA 3005A	1,6020B	WKP
Lead, Total	0.01829		mg/l	0.00100	0.00034	1	12/01/23 18:11	12/04/23 00:03	EPA 3005A	1,6020B	WKP
Magnesium, Total	24.3		mg/l	0.0700	0.0242	1	12/01/23 18:11	12/04/23 00:03	EPA 3005A	1,6020B	WKP
Manganese, Total	0.5998		mg/l	0.00100	0.00044	1	12/01/23 18:11	12/04/23 00:03	EPA 3005A	1,6020B	WKP
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/01/23 22:25	12/05/23 15:19	EPA 7470A	1,7470A	GMG
Nickel, Total	0.00820		mg/l	0.00200	0.00055	1	12/01/23 18:11	12/04/23 00:03	EPA 3005A	1,6020B	WKP
Potassium, Total	3.75		mg/l	0.100	0.0309	1	12/01/23 18:11	12/04/23 00:03	EPA 3005A	1,6020B	WKP
Selenium, Total	0.0140		mg/l	0.00500	0.00173	1	12/01/23 18:11	12/04/23 00:03	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	12/01/23 18:11	12/04/23 00:03	EPA 3005A	1,6020B	WKP
Sodium, Total	271.		mg/l	1.00	0.293	10	12/01/23 18:11	12/04/23 07:48	EPA 3005A	1,6020B	EJF
Thallium, Total	ND		mg/l	0.00100	0.00014	1	12/01/23 18:11	12/04/23 00:03	EPA 3005A	1,6020B	WKP
Vanadium, Total	0.00918		mg/l	0.00500	0.00157	1	12/01/23 18:11	12/04/23 00:03	EPA 3005A	1,6020B	WKP
Zinc, Total	0.03728		mg/l	0.01000	0.00341	1	12/01/23 18:11	12/04/23 00:03	EPA 3005A	1,6020B	WKP

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** REPORT 3

Project Number: 23.3588 **Report Date:** 12/07/23

SAMPLE RESULTS

Lab ID: L2370570-03 Date Collected: 11/30/23 10:55

Client ID: MW-3 Date Received: 11/30/23

Sample Location: SCHENECTADY, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3.86		mg/l	0.0100	0.00327	1	12/01/23 18:11	12/04/23 00:08	EPA 3005A	1,6020B	WKP
Antimony, Total	0.00054	J	mg/l	0.00400	0.00042	1	12/01/23 18:11	12/04/23 00:08	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00526		mg/l	0.00050	0.00016	1	12/01/23 18:11	12/04/23 00:08	EPA 3005A	1,6020B	WKP
Barium, Total	0.1002		mg/l	0.00050	0.00017	1	12/01/23 18:11	12/04/23 00:08	EPA 3005A	1,6020B	WKP
Beryllium, Total	0.00043	J	mg/l	0.00050	0.00010	1	12/01/23 18:11	12/04/23 00:08	EPA 3005A	1,6020B	WKP
Cadmium, Total	0.00015	J	mg/l	0.00020	0.00005	1	12/01/23 18:11	12/04/23 00:08	EPA 3005A	1,6020B	WKP
Calcium, Total	153.		mg/l	0.100	0.0394	1	12/01/23 18:11	12/04/23 00:08	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00626		mg/l	0.00100	0.00017	1	12/01/23 18:11	12/04/23 00:08	EPA 3005A	1,6020B	WKP
Cobalt, Total	0.00454		mg/l	0.00050	0.00016	1	12/01/23 18:11	12/04/23 00:08	EPA 3005A	1,6020B	WKP
Copper, Total	0.02087		mg/l	0.00100	0.00038	1	12/01/23 18:11	12/04/23 00:08	EPA 3005A	1,6020B	WKP
Iron, Total	9.53		mg/l	0.0500	0.0191	1	12/01/23 18:11	12/04/23 00:08	EPA 3005A	1,6020B	WKP
Lead, Total	0.05199		mg/l	0.00100	0.00034	1	12/01/23 18:11	12/04/23 00:08	EPA 3005A	1,6020B	WKP
Magnesium, Total	22.0		mg/l	0.0700	0.0242	1	12/01/23 18:11	12/04/23 00:08	EPA 3005A	1,6020B	WKP
Manganese, Total	0.5298		mg/l	0.00100	0.00044	1	12/01/23 18:11	12/04/23 00:08	EPA 3005A	1,6020B	WKP
Mercury, Total	0.00022		mg/l	0.00020	0.00009	1	12/01/23 22:25	12/05/23 15:22	EPA 7470A	1,7470A	GMG
Nickel, Total	0.00860		mg/l	0.00200	0.00055	1	12/01/23 18:11	12/04/23 00:08	EPA 3005A	1,6020B	WKP
Potassium, Total	5.49		mg/l	0.100	0.0309	1	12/01/23 18:11	12/04/23 00:08	EPA 3005A	1,6020B	WKP
Selenium, Total	0.00953		mg/l	0.00500	0.00173	1	12/01/23 18:11	12/04/23 00:08	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	12/01/23 18:11	12/04/23 00:08	EPA 3005A	1,6020B	WKP
Sodium, Total	354.		mg/l	1.00	0.293	10	12/01/23 18:11	12/04/23 07:53	EPA 3005A	1,6020B	EJF
Thallium, Total	ND		mg/l	0.00100	0.00014	1	12/01/23 18:11	12/04/23 00:08	EPA 3005A	1,6020B	WKP
Vanadium, Total	0.01023		mg/l	0.00500	0.00157	1	12/01/23 18:11	12/04/23 00:08	EPA 3005A	1,6020B	WKP
Zinc, Total	0.05670		mg/l	0.01000	0.00341	1	12/01/23 18:11	12/04/23 00:08	EPA 3005A	1,6020B	WKP

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** REPORT 3

Project Number: 23.3588 **Report Date:** 12/07/23

SAMPLE RESULTS

Lab ID: L2370570-04 Date Collected: 11/30/23 11:45

Client ID: MW-4 Date Received: 11/30/23

Sample Location: SCHENECTADY, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.892		mg/l	0.0100	0.00327	1	12/01/23 18:11	12/04/23 00:12	EPA 3005A	1,6020B	WKP
Antimony, Total	ND		mg/l	0.00400	0.00042	1	12/01/23 18:11	12/04/23 00:12	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00503		mg/l	0.00050	0.00016	1	12/01/23 18:11	12/04/23 00:12	EPA 3005A	1,6020B	WKP
Barium, Total	0.05976		mg/l	0.00050	0.00017	1	12/01/23 18:11	12/04/23 00:12	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/01/23 18:11	12/04/23 00:12	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	12/01/23 18:11	12/04/23 00:12	EPA 3005A	1,6020B	WKP
Calcium, Total	138.		mg/l	0.100	0.0394	1	12/01/23 18:11	12/04/23 00:12	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00129		mg/l	0.00100	0.00017	1	12/01/23 18:11	12/04/23 00:12	EPA 3005A	1,6020B	WKP
Cobalt, Total	0.00171		mg/l	0.00050	0.00016	1	12/01/23 18:11	12/04/23 00:12	EPA 3005A	1,6020B	WKP
Copper, Total	0.00371		mg/l	0.00100	0.00038	1	12/01/23 18:11	12/04/23 00:12	EPA 3005A	1,6020B	WKP
Iron, Total	4.71		mg/l	0.0500	0.0191	1	12/01/23 18:11	12/04/23 00:12	EPA 3005A	1,6020B	WKP
Lead, Total	0.02067		mg/l	0.00100	0.00034	1	12/01/23 18:11	12/04/23 00:12	EPA 3005A	1,6020B	WKP
Magnesium, Total	11.7		mg/l	0.0700	0.0242	1	12/01/23 18:11	12/04/23 00:12	EPA 3005A	1,6020B	WKP
Manganese, Total	1.852		mg/l	0.00100	0.00044	1	12/01/23 18:11	12/04/23 00:12	EPA 3005A	1,6020B	WKP
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/01/23 22:25	12/05/23 15:26	EPA 7470A	1,7470A	GMG
Nickel, Total	0.00193	J	mg/l	0.00200	0.00055	1	12/01/23 18:11	12/04/23 00:12	EPA 3005A	1,6020B	WKP
Potassium, Total	5.47		mg/l	0.100	0.0309	1	12/01/23 18:11	12/04/23 00:12	EPA 3005A	1,6020B	WKP
Selenium, Total	ND		mg/l	0.00500	0.00173	1	12/01/23 18:11	12/04/23 00:12	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	12/01/23 18:11	12/04/23 00:12	EPA 3005A	1,6020B	WKP
Sodium, Total	83.4		mg/l	0.100	0.0293	1	12/01/23 18:11	12/04/23 00:12	EPA 3005A	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	12/01/23 18:11	12/04/23 00:12	EPA 3005A	1,6020B	WKP
Vanadium, Total	0.00257	J	mg/l	0.00500	0.00157	1	12/01/23 18:11	12/04/23 00:12	EPA 3005A	1,6020B	WKP
Zinc, Total	0.01574		mg/l	0.01000	0.00341	1	12/01/23 18:11	12/04/23 00:12	EPA 3005A	1,6020B	WKP

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** REPORT 3

Project Number: 23.3588 **Report Date:** 12/07/23

SAMPLE RESULTS

Lab ID: L2370570-05 Date Collected: 11/30/23 12:30

Client ID: MW-6 Date Received: 11/30/23

Sample Location: SCHENECTADY, NY Field Prep: Not Specified

Sample Depth:

Matrix: Water

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	0.192		mg/l	0.0100	0.00327	1	12/01/23 18:11	12/04/23 00:27	EPA 3005A	1,6020B	WKP
Antimony, Total	ND		mg/l	0.00400	0.00042	1	12/01/23 18:11	12/04/23 00:27	EPA 3005A	1,6020B	WKP
Arsenic, Total	0.00053		mg/l	0.00050	0.00016	1	12/01/23 18:11	12/04/23 00:27	EPA 3005A	1,6020B	WKP
Barium, Total	0.03195		mg/l	0.00050	0.00017	1	12/01/23 18:11	12/04/23 00:27	EPA 3005A	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/01/23 18:11	12/04/23 00:27	EPA 3005A	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	12/01/23 18:11	12/04/23 00:27	EPA 3005A	1,6020B	WKP
Calcium, Total	120.		mg/l	0.100	0.0394	1	12/01/23 18:11	12/04/23 00:27	EPA 3005A	1,6020B	WKP
Chromium, Total	0.00104		mg/l	0.00100	0.00017	1	12/01/23 18:11	12/04/23 00:27	EPA 3005A	1,6020B	WKP
Cobalt, Total	0.00074		mg/l	0.00050	0.00016	1	12/01/23 18:11	12/04/23 00:27	EPA 3005A	1,6020B	WKP
Copper, Total	0.00111		mg/l	0.00100	0.00038	1	12/01/23 18:11	12/04/23 00:27	EPA 3005A	1,6020B	WKP
Iron, Total	0.586		mg/l	0.0500	0.0191	1	12/01/23 18:11	12/04/23 00:27	EPA 3005A	1,6020B	WKP
Lead, Total	0.00098	J	mg/l	0.00100	0.00034	1	12/01/23 18:11	12/04/23 00:27	EPA 3005A	1,6020B	WKP
Magnesium, Total	18.3		mg/l	0.0700	0.0242	1	12/01/23 18:11	12/04/23 00:27	EPA 3005A	1,6020B	WKP
Manganese, Total	0.09674		mg/l	0.00100	0.00044	1	12/01/23 18:11	12/04/23 00:27	EPA 3005A	1,6020B	WKP
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/01/23 22:25	12/05/23 15:29	EPA 7470A	1,7470A	GMG
Nickel, Total	0.00124	J	mg/l	0.00200	0.00055	1	12/01/23 18:11	12/04/23 00:27	EPA 3005A	1,6020B	WKP
Potassium, Total	6.34		mg/l	0.100	0.0309	1	12/01/23 18:11	12/04/23 00:27	EPA 3005A	1,6020B	WKP
Selenium, Total	ND		mg/l	0.00500	0.00173	1	12/01/23 18:11	12/04/23 00:27	EPA 3005A	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	12/01/23 18:11	12/04/23 00:27	EPA 3005A	1,6020B	WKP
Sodium, Total	263.		mg/l	1.00	0.293	10	12/01/23 18:11	12/04/23 08:41	EPA 3005A	1,6020B	EJF
Thallium, Total	ND		mg/l	0.00100	0.00014	1	12/01/23 18:11	12/04/23 00:27	EPA 3005A	1,6020B	WKP
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	12/01/23 18:11	12/04/23 00:27	EPA 3005A	1,6020B	WKP
Zinc, Total	0.00556	J	mg/l	0.01000	0.00341	1	12/01/23 18:11	12/04/23 00:27	EPA 3005A	1,6020B	WKP

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Date:** 12/07/23

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): 02-05 Batch: WG1858585-1										
Aluminum, Total	ND		mg/l	0.0100	0.00327	1	12/01/23 18:11	12/03/23 21:37	1,6020B	WKP
Antimony, Total	ND		mg/l	0.00400	0.00042	1	12/01/23 18:11	12/03/23 21:37	1,6020B	WKP
Arsenic, Total	ND		mg/l	0.00050	0.00016	1	12/01/23 18:11	12/03/23 21:37	1,6020B	WKP
Barium, Total	ND		mg/l	0.00050	0.00017	1	12/01/23 18:11	12/03/23 21:37	1,6020B	WKP
Beryllium, Total	ND		mg/l	0.00050	0.00010	1	12/01/23 18:11	12/03/23 21:37	1,6020B	WKP
Cadmium, Total	ND		mg/l	0.00020	0.00005	1	12/01/23 18:11	12/03/23 21:37	1,6020B	WKP
Calcium, Total	ND		mg/l	0.100	0.0394	1	12/01/23 18:11	12/03/23 21:37	1,6020B	WKP
Chromium, Total	ND		mg/l	0.00100	0.00017	1	12/01/23 18:11	12/03/23 21:37	1,6020B	WKP
Cobalt, Total	ND		mg/l	0.00050	0.00016	1	12/01/23 18:11	12/03/23 21:37	1,6020B	WKP
Copper, Total	ND		mg/l	0.00100	0.00038	1	12/01/23 18:11	12/03/23 21:37	1,6020B	WKP
Iron, Total	ND		mg/l	0.0500	0.0191	1	12/01/23 18:11	12/03/23 21:37	1,6020B	WKP
Lead, Total	ND		mg/l	0.00100	0.00034	1	12/01/23 18:11	12/03/23 21:37	1,6020B	WKP
Magnesium, Total	ND		mg/l	0.0700	0.0242	1	12/01/23 18:11	12/03/23 21:37	1,6020B	WKP
Manganese, Total	ND		mg/l	0.00100	0.00044	1	12/01/23 18:11	12/03/23 21:37	1,6020B	WKP
Nickel, Total	ND		mg/l	0.00200	0.00055	1	12/01/23 18:11	12/03/23 21:37	1,6020B	WKP
Potassium, Total	ND		mg/l	0.100	0.0309	1	12/01/23 18:11	12/03/23 21:37	1,6020B	WKP
Selenium, Total	ND		mg/l	0.00500	0.00173	1	12/01/23 18:11	12/03/23 21:37	1,6020B	WKP
Silver, Total	ND		mg/l	0.00040	0.00016	1	12/01/23 18:11	12/03/23 21:37	1,6020B	WKP
Sodium, Total	ND		mg/l	0.100	0.0293	1	12/01/23 18:11	12/03/23 21:37	1,6020B	WKP
Thallium, Total	ND		mg/l	0.00100	0.00014	1	12/01/23 18:11	12/03/23 21:37	1,6020B	WKP
Vanadium, Total	ND		mg/l	0.00500	0.00157	1	12/01/23 18:11	12/03/23 21:37	1,6020B	WKP
Zinc, Total	ND		mg/l	0.01000	0.00341	1	12/01/23 18:11	12/03/23 21:37	1,6020B	WKP

Prep Information

Digestion Method: EPA 3005A

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 02-05 Batch: WG1858586-1										
Mercury, Total	ND		mg/l	0.00020	0.00009	1	12/01/23 22:25	12/05/23 13:40	1,7470A	GMG

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Numbe** REPORT 3

Project Number: 23.3588 **Report Date:** 12/07/23

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7470A

REPORT 3

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE

Project Number: 23.3588

Lab Number: L2370570

Report Date: 12/07/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-05 Batch: WG1858585-2								
Aluminum, Total	89		-		80-120	-		
Antimony, Total	103		-		80-120	-		
Arsenic, Total	102		-		80-120	-		
Barium, Total	106		-		80-120	-		
Beryllium, Total	97		-		80-120	-		
Cadmium, Total	104		-		80-120	-		
Calcium, Total	98		-		80-120	-		
Chromium, Total	109		-		80-120	-		
Cobalt, Total	105		-		80-120	-		
Copper, Total	109		-		80-120	-		
Iron, Total	110		-		80-120	-		
Lead, Total	107		-		80-120	-		
Magnesium, Total	104		-		80-120	-		
Manganese, Total	111		-		80-120	-		
Nickel, Total	103		-		80-120	-		
Potassium, Total	109		-		80-120	-		
Selenium, Total	89		-		80-120	-		
Silver, Total	104		-		80-120	-		
Sodium, Total	97		-		80-120	-		
Thallium, Total	102		-		80-120	-		
Vanadium, Total	107		-		80-120	-		

REPORT 3

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE

Project Number: 23.3588

Lab Number: L2370570

Report Date: 12/07/23

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-05 Batch: WG1858585-2					
Zinc, Total	113	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 02-05 Batch: WG1858586-2					
Mercury, Total	94	-	80-120	-	

REPORT 3

Matrix Spike Analysis
Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

Lab Number: L2370570
Report Date: 12/07/23

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): 02-05 QC Batch ID: WG1858585-3 QC Sample: L2370188-01 Client ID: MS Sample												
Aluminum, Total	5.62	2	9.26	**182**	Q	-	-		75-125	-		20
Antimony, Total	0.0025J	0.5	0.3726	**74**	Q	-	-		75-125	-		20
Arsenic, Total	0.00379	0.12	0.09504	76		-	-		75-125	-		20
Barium, Total	0.04767	2	2.098	102		-	-		75-125	-		20
Beryllium, Total	0.0006	0.05	0.05196	103		-	-		75-125	-		20
Cadmium, Total	0.00013J	0.053	0.05397	102		-	-		75-125	-		20
Calcium, Total	102	10	139	**370**	Q	-	-		75-125	-		20
Chromium, Total	0.01122	0.2	0.2896	**139**	Q	-	-		75-125	-		20
Cobalt, Total	0.0135	0.5	0.5240	102		-	-		75-125	-		20
Copper, Total	0.0291	0.25	0.2789	100		-	-		75-125	-		20
Iron, Total	21.5	1	22.1	**60**	Q	-	-		75-125	-		20
Lead, Total	0.01872	0.53	0.5510	100		-	-		75-125	-		20
Magnesium, Total	53.5	10	71.6	**181**	Q	-	-		75-125	-		20
Manganese, Total	0.9024	0.5	1.606	**141**	Q	-	-		75-125	-		20
Nickel, Total	0.0211	0.5	0.7888	**154**	Q	-	-		75-125	-		20
Potassium, Total	4.27	10	16.1	118		-	-		75-125	-		20
Selenium, Total	0.00920	0.12	0.0822	**61**	Q	-	-		75-125	-		20
Silver, Total	0.00024J	0.05	0.05008	100		-	-		75-125	-		20
Sodium, Total	5.00	10	15.5	105		-	-		75-125	-		20
Thallium, Total	0.0002J	0.12	0.1157	96		-	-		75-125	-		20
Vanadium, Total	0.0128	0.5	0.5418	106		-	-		75-125	-		20

REPORT 3

Matrix Spike Analysis
Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

Lab Number: L2370570
Report Date: 12/07/23

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): 02-05 QC Batch ID: WG1858585-3 QC Sample: L2370188-01 Client ID: MS Sample									
Zinc, Total	0.0578	0.5	0.5390	96	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 02-05 QC Batch ID: WG1858586-3 QC Sample: L2370197-01 Client ID: MS Sample									
Mercury, Total	ND	0.005	0.00448	90	-	-	75-125	-	20

REPORT 3

Lab Duplicate Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE

Project Number: 23.3588

Lab Number: L2370570

Report Date: 12/07/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-05 QC Batch ID: WG1858585-4 QC Sample: L2370188-01 Client ID: DUP Sample						
Arsenic, Total	0.00379	0.00425	mg/l	11		20
Barium, Total	0.04767	0.04768	mg/l	0		20
Cadmium, Total	0.00013J	0.00014J	mg/l	NC		20
Chromium, Total	0.01122	0.01160	mg/l	3		20
Lead, Total	0.01872	0.01866	mg/l	0		20
Selenium, Total	0.00920	0.00932	mg/l	1		20
Silver, Total	0.00024J	0.00023J	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 02-05 QC Batch ID: WG1858586-4 QC Sample: L2370197-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/l	NC		20

REPORT 3

Lab Serial Dilution Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

Lab Number: L2370570
Report Date: 12/07/23

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 02-05 QC Batch ID: WG1858585-6 QC Sample: L2370188-01 Client ID: DUP Sample						
Barium, Total	0.04767	0.04644	mg/l	3		20

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

REPORT 3

Lab Number: L2370570
Report Date: 12/07/23

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(*)
L2370570-01A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2370570-01B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2370570-02A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2370570-02B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2370570-02C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2370570-02D	Plastic 500ml HNO3 preserved	A	<2	<2	2.8	Y	Absent		TL-6020T(180),FE-6020T(180),SE-6020T(180),BA-6020T(180),CA-6020T(180),CR-6020T(180),K-6020T(180),NI-6020T(180),NA-6020T(180),CU-6020T(180),ZN-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),AS-6020T(180),V-6020T(180),SB-6020T(180),HG-T(28),MG-6020T(180),AG-6020T(180),CD-6020T(180),AL-6020T(180),CO-6020T(180)
L2370570-02E	Amber 120ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-8082-LVI(365)
L2370570-02F	Amber 120ml unpreserved	A	7	7	2.8	Y	Absent		NYTCL-8082-LVI(365)
L2370570-02G	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		NYCP51-PAHSIM-LVI(7)
L2370570-02H	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		NYCP51-PAHSIM-LVI(7)
L2370570-03A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2370570-03B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2370570-03C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2370570-03D	Plastic 500ml HNO3 preserved	A	<2	<2	2.8	Y	Absent		FE-6020T(180),TL-6020T(180),BA-6020T(180),SE-6020T(180),NI-6020T(180),CR-6020T(180),K-6020T(180),CA-6020T(180),CU-6020T(180),ZN-6020T(180),NA-6020T(180),PB-6020T(180),MN-6020T(180),BE-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),AL-6020T(180),CD-6020T(180),MG-6020T(180),AG-6020T(180),HG-T(28),CO-6020T(180)
L2370570-03E	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		NYCP51-PAHSIM-LVI(7)

*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(*)
L2370570-03F	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		NYCP51-PAHSIM-LVI(7)
L2370570-04A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2370570-04B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2370570-04C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2370570-04D	Plastic 500ml HNO3 preserved	A	<2	<2	2.8	Y	Absent		FE-6020T(180),TL-6020T(180),BA-6020T(180),SE-6020T(180),CR-6020T(180),CA-6020T(180),NI-6020T(180),K-6020T(180),ZN-6020T(180),NA-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),SB-6020T(180),AS-6020T(180),V-6020T(180),MG-6020T(180),HG-T(28),AG-6020T(180),AL-6020T(180),CD-6020T(180),CO-6020T(180)
L2370570-04E	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		NYCP51-PAHSIM-LVI(7)
L2370570-04F	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		NYCP51-PAHSIM-LVI(7)
L2370570-05A	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2370570-05B	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2370570-05C	Vial HCl preserved	A	NA		2.8	Y	Absent		NYTCL-8260-R2(14)
L2370570-05D	Plastic 500ml HNO3 preserved	A	<2	<2	2.8	Y	Absent		BA-6020T(180),SE-6020T(180),FE-6020T(180),TL-6020T(180),CR-6020T(180),CA-6020T(180),K-6020T(180),NI-6020T(180),NA-6020T(180),ZN-6020T(180),CU-6020T(180),PB-6020T(180),BE-6020T(180),MN-6020T(180),V-6020T(180),AS-6020T(180),SB-6020T(180),CD-6020T(180),AG-6020T(180),HG-T(28),MG-6020T(180),AL-6020T(180),CO-6020T(180)
L2370570-05E	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		NYCP51-PAHSIM-LVI(7)
L2370570-05F	Amber 250ml unpreserved	A	7	7	2.8	Y	Absent		NYCP51-PAHSIM-LVI(7)

*Values in parentheses indicate holding time in days

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** L REPORT 3

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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

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** L REPORT 3

Project Number: 23.3588 **Report Date:** 12/07/23

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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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 for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

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

Report Format: DU Report with 'J' Qualifiers

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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

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 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.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

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 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
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 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).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

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, EPA 537.1.

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.

REPORT 3

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

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: 12/1/23

ALPHA Job #: L2370570

Client Information
Client: C.T. Male Associates
Address: 50 Century Hill Drive, Latham, NY 12110
Phone: (518) 786-7400
Fax:
Email: A.Smith@ctmale.com

Project Information
Project Name: Schenectady 40 Anchor Site
Project Location: Schenectady, NY
Project #: 23.3588
(Use Project name as Project #)
Project Manager: Aimee Smith
ALPHAQuote #:

Turn-Around Time
Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☒ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:

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	TCL/CP-51 VOCs by 8260	CP-51 SVOCs by 8270	TAL Metals	PCBs by 8082	Sample Specific Comments	Total Bottle
70570-01	Trip Blank	11/30/23	—	W	—	X					2
-02	MW-1		1010	GW	RH	X	X	X	X		8
-03	MW-3		1055		RH	X	X	X			6
-04	MW-4		1145		RH	X	X	X			6
-05	MW-6		1230		RH	X	X	X			6

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	V	A	P	A
Preservative	B	A	C	A

Relinquished By:	Date/Time	Received By:	Date/Time
PAPE	11/30/23 1355	PAPE	11/30/23 1355
PAPE	11/30/23 1400		12/1/23 0202

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)

EXHIBIT 5

2024 C.T. MALE SUPPLEMENTAL SUBSURFACE ASSESSMENT

October 2, 2024

Supplemental Subsurface Assessment
Schenectady 40 Anchor Site
742, 754 & 758 State Street and
749 Albany Street
City of Schenectady
Schenectady County, New York

NYSDEC Spill No. 2300878
PBS No. 4-054429

Prepared for:
ALBANY STATE STREET LIMITED PARTNERSHIP
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New York, NY 10018

Certified To:
The Land Reutilization Corporation of the Capital Region
D/B/A The Capital Region Land Bank

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C.T. Male Project No: 23.3588

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C.T. MALE ASSOCIATES, ENGINEERING, SURVEYING, ARCHITECTURE, LANDSCAPE ARCHITECTURE & GEOLOGY D.P.C.

SUPPLEMENTAL SUBSURFACE ASSESSMENT REPORT
SCHENECTADY 40 ANCHOR SITE

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1.0 INTRODUCTION

1.1 Project Background

This report presents the findings of a supplemental subsurface assessment conducted by C.T. Male Associates Engineering, Surveying, Architecture, Landscape Architecture & Geology, D.P.C. (C.T. Male) at the Schenectady 40 Anchor Site, which is located in the City of Schenectady, Schenectady County, New York (See Figure 1, Appendix A).

The site is comprised of four (4) adjoining parcels of land identified as 742, 754 & 758 State Street and 749 Albany Street.

Prior assessments of the site include the following (Note: In some cases, parcels not included in the bounds of the current defined site were included in the below assessments; and in some cases, not all of the site parcels were included. These discrepancies are noted for each report):

- 2002 Phase I Environmental Site Assessment (ESA) of the Mohawk Honda Site at 728-756 State Street prepared by Northeastern Environmental Technologies Corp. (NETC) (included a review of off-site properties to the northwest that are not included in the site and did not include the 749 Albany Street parcel or the 758 State Street parcel.)
- 2003 Subsurface Investigation of the Mohawk Honda Site at 728-756 State Street prepared by NETC (included a review of off-site properties to the northwest that are not included in the site and did not include the 749 Albany Street parcel or the 758 State Street parcel.)
- 2003 Remedial Investigation & Tank Closure Program for the Mohawk Honda Site at 728-756 State Street prepared by NETC (included a review of off-site properties to the northwest that are not included in the site and did not include the 749 Albany Street parcel or the 758 State Street parcel.)
- 2023 Phase I ESA for the Mohawk Chevrolet Co Inc, Haraden Motorcar Corp, and Two Guys Realty LLC Property at 742, 754, 756 and 758 State Street prepared by LaBella Associates, D.P.C. (LaBella) (did not include the 749 Albany Street parcel).

- 2023 Phase II ESA for 742, 754, 756 and 758 State Street Site, prepared by LaBella (did not include the 749 Albany Street parcel.)
- 2023 Phase I ESA for the Vacant Lot at 749 Albany Street Site, prepared by C.T. Male (did not include the State Street parcels.)
- 2024 Phase II ESA for the Schenectady 40 Anchor Site, 742, 754 & 758 State Street and 749 Albany Street, prepared by C.T. Male.
- 2024 Phase I ESA for the Former Mohawk Honda Site, 742, 754 & 758 State Street and 749 Albany Street, prepared by C.T. Male.

On the basis of the findings and investigations the following conditions currently exist at the site:

- Two (2) anomalies (based on the findings of a ground penetrating radar (GPR) survey) consistent with underground storage tanks (USTs) are located on the site. The first anomaly was identified on the northeastern portion of the site on the 742 State Street parcel. The second anomaly was identified on the 754 State Street parcel to the north of the southwestern portion of the former 754 State Street building. A third potential UST was identified beneath the slab of the basement of the building formerly located on the 754 State Street parcel.
- The soils within the site and to the depths explored (up to 20 feet bgs) contain urban fill comprised of ash, brick, coal, concrete rubble, glass and slag.
- Impacts to soils have been documented through various investigations at the site including post excavation samples for soil/UST removal activities conducted in 2003; the 2023 Phase II ESA conducted by LaBella, and the 2024 Phase II ESA conducted by C.T. Male. Impacts to soils appear to be related to a petroleum release at the suspect UST to the north of the southwestern portion of the former 754 State Street building as documented by volatile organic compounds (VOCs) above Unrestricted Use/Commissioner's Policy (CP-51) soil cleanup objectives (SCOs)[1], and by the presence of fill materials on scattered portions of the site as documented by semi volatile organic compounds (SVOCs) and metals above Unrestricted Use SCOs. Select SVOCs and one (1) metal (mercury) are documented to exceed Industrial Use SCOs.

[1] Unrestricted Use Soil Cleanup Objectives refer to: 6NYCRR Part 375, December 14, 2006, Table 375-6.8(a), & CP-51 Soil Cleanup Objectives refer to: CP-51/Soil Cleanup Guidance, October 21, 2010, Tables 2 & 3

- Similarly, impacts to groundwater have been documented through the 2023 Phase II ESA and the 2024 Phase II ESA. Petroleum related compounds were identified proximate to the suspect UST to the north of the southwestern portion of the former 754 State Street building. Metals and SVOCs were detected above groundwater standards/guidance values on various portions of the site.
- A spill was reported to the New York State Department of Environmental Conservation (NYSDEC) based on the findings of the 2023 Phase II ESA. The spill remains active.

In addition to the above environmental studies, the site was subject of a geotechnical evaluation in 2024 as documented in the Geotechnical Evaluation Report for the Proposed Anchor Site Development, State and Albany Street, City of Schenectady, prepared by C.T. Male, dated May 13, 2024. The report indicates that fill materials (urban fill) consisting of fine to coarse sand with lesser amounts of silt and varying amounts of fragments of brick, glass, coal, ash and wood were encountered from approximately three (3) feet below grade surface (bgs) to approximately 23.5 feet bgs, at the locations explored.

This Supplemental Subsurface Assessment was conducted to further evaluate the environmental quality of soils and the urban fill in order to be able to provide adequate information to determine if the site would be eligible for the NYSDEC Brownfield Cleanup Program (BCP).

1.2 Site Configuration

The site is located at 742, 754 & 758 State Street and 749 Albany Street in the City of Schenectady, Schenectady County, New York (see Figure 1 in Appendix A). The site is situated northeast of Albany Street and southwest of State Street on the block between Hulett Street and Armory Alley.

The site was recently improved with a two-story commercial building (razed late summer/early fall 2024) formerly used as an office and automotive repair garage on the 754 Albany Street parcel. The building was constructed on a full basement and was constructed between 1914 and 1930. The basement area of the building contained various drainage features (trench floor drains and sumps) as well as piping within the concrete slab which resembled fill and vent pipes typically associated with USTs.

Electricity and natural gas are supplied to the site by National Grid. Municipal water and sewer services are provided by the City of Schenectady. The former 754 State Street building was reportedly heated by natural gas.

The site has a petroleum bulk storage (PBS) registration listed under the name Mohawk Honda with an address of 756 State Street. The site is referenced with PBS No. 4-054429. The facility is listed as active with four (4) above ground storage tanks (ASTs) ranging in capacity from 275 gallons to 1,000 gallons listed as in service, three (3) 500-gallon ASTs listed as closed by removal in 2008 and one (1) 2,000-gallon underground storage tank (UST) listed as closed by removal in 1992.

The suspect USTs discussed above do not appear to have been previously registered under the site's PBS registration.

1.3 Project Scope

This Supplemental Subsurface Assessment included the advancement of ten (10) soil borings; the excavation of three (3) test pits, the collection of soil samples for field vapor screening; and the collection of soil samples for laboratory analysis.

This Phase II ESA was conducted by C.T. Male as requested by Albany State Street Limited Partnership.

2.0 METHOD OF PHASE II ESA INVESTIGATION

2.1 Test Boring Locations and Drilling Method

Ten (10) test boring locations were selected in order to collect additional soil samples on the site in areas where soil samples were not previously collected or analyzed. The test borings were located as follows:

- GP-7 and GP-8 were advanced on the northeastern portion of the site near State Street on the 742 State Street parcel.
- GP-9 was advanced on the north-central portion of the site on the 742 State Street parcel between two (2) soil removal areas (Areas 4 and 5) that were excavated in 2003.
- GP-10 was advanced on the central portion of the 742 State Street parcel.
- GP-11 was advanced on the northwestern portion of the site on the northwestern corner of the 742 State Street parcel.
- GP-12 was advanced on west-central portion of the site on the southwestern corner of the 742 State Street parcel.
- GP-13 was advanced on the southeastern portion of the site on the eastern portion of the 758 State Street parcel.
- GP-14 was advanced on the south-central portion of the site on the western portion of the 758 State Street parcel.
- GP-15 was advanced on the southwestern portion of the site on the west-central portion of the 749 Albany Street parcel.
- GP-16 was advanced on the south-central portion of the site on the eastern portion of the 749 Albany Street parcel, to the southwest of the former 754 State Street building.

The approximate test boring locations are depicted on the Sampling Location Plan which is included as Figure 2 in Appendix A.

The drilling activities were completed on Monday, May 20, 2024 by Core Down Drilling LLC of Brewster, New York. For the purpose of this investigation, Geoprobe drilling techniques were utilized.

At each test location a two-inch diameter MacroCore sampler was advanced at continuous five-foot intervals to the termination depths of the borings. The recovered soil samples were visually classified and recorded on individual subsurface exploration logs.

2.2 Test Pit Locations and Excavation Method

Three (3) exploratory test pit locations were selected to provide assessment of the soil conditions beneath the slab of the former 754 State Street building. The test pits were located as follows:

- TP-1 was excavated within the northeastern portion of the basement of the recently demolished building.
- TP-2 was excavated within the central portion of the basement, within the northeastern corner of the auto repair portion of the building.
- TP-3 was excavated within the southwestern portion of the basement of the auto repair portion of the building.

The test pit sampling was conducted on September 5, 2024 following the demolition of the building, prior to the basement being completely backfilled. As groundwater was present near the surface of the slab, the soil samples were collected from just below the slab.

The test pits were excavated by the client's demolition contractor, Jackson Demolition Services, Inc. (Jackson). For the purpose of this investigation, a Caterpillar 328D track mounted excavator was utilized.

The approximate test pit locations are depicted on the Sampling Location Plan which is included as Figure 2 in Appendix A.

2.3 Soil Screening

Soil samples were collected from the soil borings and test pits for the purpose of field screening with a Photoionization Detector (PID) meter. Following the recovery of the soil samples from the test borings and test pits, each sample was placed in a new, clean sealable plastic bag and then screened for the presence of detectable VOCs with a MiniRAE 3000 PID equipped with a 10.6 eV lamp. The PID meter was calibrated according to manufacturer recommendations prior to use.

2.4 Soil Sampling – Test Borings

Select soil samples were collected from the soil borings for laboratory analysis as follows:

- GP-7 from 5-7.5 feet bgs;
- GP-8 from 5-7.5 feet bgs;
- GP-9 from 5-7.5 feet bgs;
- GP-10 from 2.5-5 feet bgs;
- GP-11 from 2-5.5 feet bgs;
- GP-12 from 5-7.5 feet bgs;
- GP-13 from 5-7.5 feet bgs;
- GP-14 from 5-6 feet bgs;
- GP-15 from 5-7 feet bgs; and
- GP-16 from 2.5-5 feet bgs.

The soil samples from the borings were selected based on the results of the subjective soil screening activities. The soil samples were collected in new laboratory supplied glass jars while wearing new gloves. The samples were placed in a cooler with ice and were forwarded under chain-of-custody to Alpha Analytical, Inc. of Westborough, Massachusetts for laboratory analysis for the CP-51 SVOCs by EPA Method 8270 and the Target Analyte List (TAL) of metals.

2.5 Soil Sampling – Test Pits

The soil samples from the test pits were collected just below the slab of the foundation of the former 754 State Street building.

The soil samples were collected in new laboratory supplied glass jars while wearing new gloves. The samples were placed in a cooler with ice and were forwarded under chain-of-custody to Alpha Analytical, Inc. of Westborough, Massachusetts for laboratory analysis for the Target Compound List (TCL) and CP-51 list of VOCs, CP-51 SVOCs by EPA Method 8270 and TAL metals.

2.6 Decontamination

To preclude the potential for cross contamination between the test boring locations, drilling tools and sampling equipment that would contact the site soils and groundwater were decontaminated prior to the start of the drilling activities and between boring locations utilizing a detergent/water wash and tap water rinse. At each test pit location, the bucket of the excavator was cleaned so that visible soils were not evident on the bucket prior to collection of soil samples intended for laboratory analysis. Soil samples were handled with a new pair of nitrile gloves to deter cross contamination of the soil samples collected for screening and/or laboratory analysis.

3.0 FINDINGS OF THE PHASE II ESA INVESTIGATION

3.1 Soil Conditions at Test Boring Locations

At GP-7, beneath the asphalt, the soils generally consisted of sand, gravel and cobble. The soils became wet at approximately 10 feet bgs, where the boring was terminated. Petrochemical type odors or staining were not noted in the soils recovered from GP-7.

At GP-8, the soils beneath the asphalt consisted primarily of sand with little gravel present to approximately 6 feet bgs. The boring was terminated at approximately 10 feet bgs. The soils became wet at approximately 7.5 feet bgs. Petrochemical type odors or staining were not noted in the soils recovered from GP-8.

At GP-9, beneath the asphalt surface, urban fill consisting of ash, gravel, concrete and asphalt was encountered to approximately 7.5 feet bgs. The urban fill was underlain by brown fine to medium sand. The boring was terminated at approximately 10 feet bgs. The soils became wet at approximately 7.5 feet bgs. Petrochemical type odors and staining were not noted in the soil samples recovered from GP-9.

At GP-10, beneath the asphalt, brown medium sand was encountered to approximately 1.5 feet bgs. Urban fill was encountered beneath the sand, consisting of concrete and asphalt, to approximately 2.5 feet bgs. Beneath the fill, medium sand was encountered with some of urban fill present to approximately 5.5 feet bgs. Brown-gray medium sand was encountered in the remainder of the boring which was terminated at approximately 10 feet bgs. The soils became wet at approximately 5.5 feet bgs. Petrochemical type odors and staining were not noted in the soil samples recovered from GP-10.

Urban fill consisting of concrete, ash, asphalt and some brown medium sand was encountered to approximately 7.5 feet bgs at GP-11. Brown medium sand containing urban fill (primarily brick) was encountered in the balance of the boring which was terminated at 10 feet bgs. Petrochemical type odors and staining were not noted in the soil samples recovered from GP-11. The soils became wet at approximately 7.5 feet bgs.

Beneath the asphalt, other than an approximate half-foot layer of grey gravel from 4 to 4.5 feet bgs, the soils at GP-12 consisted of brown/grey and brown medium sand to the termination depth of 10 feet bgs. The soils became wet at approximately 5.5

feet bgs. Petrochemical odors or staining were not encountered in the soils recovered from GP-12.

At GP-13 beneath the asphalt, the soils consisted of brown medium sand and urban fill (brick and ash) to approximately 5.5 feet bgs. Brown fine sand was encountered in the remainder of the boring which was terminated at approximately 10 feet bgs. The soils became wet at approximately 9.5 feet bgs. Petrochemical odors or staining were not encountered in the soils recovered from GP-13.

Urban fill consisting of concrete, brick, ash, wood and brown fine to medium sand was encountered beneath the asphalt at GP-14 to the termination of the boring at approximately 6 feet bgs where refusal was encountered. The soil/fill was damp throughout. Petrochemical odors or staining were not encountered in the soil/fill recovered from GP-14.

Urban fill consisting of concrete, brick, ash, wood and fine to medium sand was encountered beneath the asphalt at GP-15 to the termination of the boring at approximately 9 feet bgs where refusal was encountered. The soil/fill was damp throughout. Petrochemical odors or staining were not encountered in the soil/fill recovered from GP-15.

Brown fine to medium sand was encountered beneath the asphalt at GP-16 to approximately 2.5 feet bgs. A layer of urban fill consisting of ash and asphalt was encountered beneath the sand to approximately 4.5 feet bgs. The fill was underlain by brown fine sand and silt to the termination of the boring at 5 feet bgs. The soils became wet at approximately 1.5 feet bgs. Petrochemical odors or staining were not encountered in the soils recovered from GP-16.

The subsurface exploration logs are included in Appendix B.

3.2 Soil Conditions at Test Pit Locations

The test pits excavated in the basement of the former 754 State Street building were advanced just below the concrete floor. Groundwater was noted to be perched above the slab. The soils at TP-1 and TP-2 consisted of fine to medium brown sand with urban fill (glass and general trash). Petrochemical odors or staining were not encountered in the soils recovered from these test pits. The soils at TP-3 consisted of fine to medium dark brown sand. The soils from TP-3 exhibited a petrochemical

type odor and the soils exhibited staining. The soils recovered from the three test pit locations were wet.

The test pit logs are included in Appendix C.

3.3 Soil Screening Results

The PID readings for the soil samples collected from the soil borings were generally less than 10 parts per million (ppm) above background. Slightly elevated readings were recorded in two (2) soil samples, GP-13 (7.5-10') and GP- 14 (0-2.5') at 21.4 ppm and 11.7 ppm respectively. The readings recorded appeared to be related to moisture content in the samples as opposed to the presence of VOCs. The soil samples did not exhibit petrochemical type odors, staining or sheens and the increased readings on the PID meter responded slowly, indicative of moisture interference/humidity.

Slightly elevated readings were recorded from the soils from TP-1 and TP-2 at 8.7 ppm and 14.3 ppm above background; however, these samples did not exhibit petrochemical type odors, staining or sheens. The sample collected from TP-3 had an elevated PID reading at 195.5 ppm above background. The sample exhibited a petrochemical type odor and staining.

As an active spill is listed for the site (Spill No. 2300878), the NYSDEC spill engineer was consulted regarding the observation of these results. It was requested by NYSDEC that these findings be handled under the existing spill number for the site.

The Organic Vapor Headspace Analysis Logs are included in Appendix D.

3.4 Groundwater Conditions

Groundwater was encountered at varying depths across the site from approximately 1.5- feet bgs to 9.5 feet bgs during the drilling activities. Petrochemical type odors or sheens were not noted in the groundwater present in the recovered soil samples.

At the time of the test pit assessment, groundwater was noted to be perched above the slab of the basement of the former 754 State Street building. Petrochemical type odors or sheens were not noted in the groundwater present above the slab or within the recovered soil samples from the test pits.

The direction of groundwater flow was not determined as a function of this assessment; however, during the Phase II ESA completed in 2003 the direction of groundwater flow was noted to be to the north/northeast.

3.5 Other Site Conditions

During demolition activities, Jackson inadvertently uncovered a UST located to the north of the southwestern portion of the former 754 State Street building. The UST was noted to be in the location where an anomaly was identified consistent with a UST during the completion of the 2023 and 2024 Phase II ESAs of the site. The tank was reported to be approximately 30 feet long. A petroleum type liquid (reported as diesel/oil) was noted to be present within the tank (approximately ½ full). The tank was reportedly covered for future removal. The NYSDEC spill engineer was notified of the finding.

4.0 ANALYTICAL RESULTS

4.1 Subsurface Soil – Soil Borings and Test Pits

The soil samples collected from the soil borings were analyzed for CP-51 SVOCs by EPA Method 8270 and TAL metals. The soil samples collected from the test pits were analyzed for TCL/CP-51 VOCs by EPA Method 8260, CP-51 SVOCs by EPA Method 8270 and TAL metals.

SVOCs

SVOCs were either not detected above the laboratory method detection limit, or were below Unrestricted SCOs in the soil samples collected from GP-7, GP-8, GP-10, GP-11, GP-12, GP-13, GP-15, GP-16, TP-1 and TP-3. The SVOCs detected above their respective Unrestricted Use SCOs in the remaining soil samples are discussed below.

Two (2) SVOCs were detected in the sample collected from GP-9 (5-7.5) as follows:

- Benzo(b)fluoranthene was detected at a concentration of 1.1 ppm, above the Restricted Residential Use SCO of 1 ppm.
- Indeno(1,2,3-cd)pyrene was detected at a concentration of 0.57 ppm, above the Restricted Residential Use SCO of 0.5 ppm.

Nine (9) SVOCs were detected in the sample collected from GP-14 (5-6) exceeding their respective NYSDEC Unrestricted Use/CP-51 SCOs as follows:

- Benzo(a)anthracene was detected at a concentration of 47 ppm, above the Industrial Use SCO of 11 ppm.
- Benzo(a)pyrene was detected at a concentration of 44 ppm, above the Industrial Use SCO of 1.1 ppm.
- Benzo(b)fluoranthene was detected at a concentration of 54 ppm, above the Industrial Use SCO of 11 ppm.
- Benzo(k)fluoranthene was detected at a concentration of 18 ppm, above the Restricted Residential Use SCO of 3.9 ppm.
- Chrysene was detected at a concentration of 39 ppm, above the Restricted Residential Use SCO of 3.9 ppm.
- Dibenzo(a,h)anthracene was detected at a concentration of 6.6 ppm, above the Industrial Use SCO of 1.1 ppm.

- Fluoranthene was detected at a concentration of 170 ppm, above the Restricted Residential Use SCO of 100 ppm.
- Indeno(1,2,3-cd)pyrene was detected at a concentration of 27 ppm, above the Industrial Use SCO of 11 ppm.
- Phenanthrene was detected at a concentration of 140 ppm, above the Restricted Residential Use SCO of 100 ppm.

Seven (7) SVOCs were detected in the sample collected from TP-3 exceeding their respective NYSDEC Unrestricted Use/CP-51 SCOs as follows:

- Benzo(a)anthracene was detected at a concentration of 10 ppm, above the Commercial Use SCO of 5.6 ppm.
- Benzo(a)pyrene was detected at a concentration of 9.4 ppm, above the Industrial Use SCO of 1.1 ppm.
- Benzo(b)fluoranthene was detected at a concentration of 16 ppm, above the Industrial Use SCO of 11 ppm.
- Benzo(k)fluoranthene was detected at a concentration of 3.2 ppm, above the Residential Use SCO of 1 ppm.
- Chrysene was detected at a concentration of 10 ppm, above the Restricted Residential Use SCO of 3.9 ppm.
- Indeno(1,2,3-cd)pyrene was detected at a concentration of 5.7 ppm, above the Commercial Use SCO of 5.6 ppm.

Metals

Up to 21 metals were detected in the soil samples submitted for laboratory analysis. Of those, copper, lead, mercury and zinc were detected in concentrations that exceeded their respective SCOs in one (1) or more samples summarized as follows:

Copper was detected in each of the soil samples collected from the borings ranging in concentrations from 8.26 ppm to 54.4 ppm. The concentration exceeded the Unrestricted Use SCO of 50 ppm at GP-16 (2.5-5) at a concentration of 54.4 ppm.

Lead was detected in each of the soil samples ranging in concentrations of 8.71 ppm to 1,130 ppm. Lead exceeded the Commercial Use SCO of 1,000 ppm at GP-9 (5-7.5) at a concentration of 1,130 ppm. Lead exceeded the Restricted Residential Use SCO of 400 ppm at GP-16 (2.5-5) with a concentration of 689 ppm. Lead exceeded the

Unrestricted Use SCO of 63 ppm at GP-8 (5-7.5) at a concentration of 104 ppm; GP-10 (2.5-5) at a concentration of 242 ppm; GP-11 (2.5-5) at a concentration of 215 ppm; GP-13 (5-7.5) at a concentration of 334 ppm and TP-2 at a concentration of 71.9 ppm.

Mercury was detected in each of the soil samples ranging in concentrations of 0.06 ppm (estimated) to 30.5 ppm. Mercury exceeded the Industrial Use SCO of 5.7 ppm at GP-9 (5-7.5) at a concentration of 30.5 ppm. Mercury exceeded the Unrestricted Use SCO of 0.18 ppm at GP-10 (2.5-5) at a concentration of 0.23 ppm; GP-11 (2.5-5) at a concentration of 0.423 ppm; GP-13 (5-7.5) at a concentration of 0.265 ppm, GP-16 (2.5-5) at a concentration of 0.53 ppm and TP-2 at a concentration of 0.358 ppm.

Zinc was detected in each of the soil samples in concentrations ranging 41.4 ppm to 726 ppm. Zinc exceeded the Unrestricted Use SCO of 109 ppm at GP-13 (5-7.5) at a concentration of 726 ppm; GP-14 (5-6) at a concentration of 204 ppm, GP-16 (2.5-5) at a concentration of 603 ppm and TP-2 at a concentration of 115 ppm.

Concentrations exceeding Restricted Residential, Commercial and Industrial Use SCOs are depicted on Figure 3 with concentrations summarized in tables. The results of the soil sampling for SVOCs and metals are also summarized in Table 4.1-1.

VOCs

The samples from the soil borings were not submitted for laboratory analysis for VOCs.

At least one (1) VOC was detected above the laboratory's method detection limit in the soils collected from the three (3) test pits. Acetone was detected at a concentration of 0.085 ppm in the sample collected from TP-3, above the Unrestricted Use SCO of 0.05 ppm. The remaining VOC detections were below Unrestricted Use SCOs.

The results of the soil sampling for VOCs are summarized in Table 4.1-2.

Full analytical results for the subsurface soil samples from the soil borings are presented in Appendix E and the analytical results for the subsurface soil samples from the test pits are presented in Appendix F.

4.2 Subsurface Soil – Previous Assessments

Figure 3 in Appendix A depicts locations from this assessment and prior assessments that had one (1) or more analyte or compound which exceed its Unrestricted Use

SCO (green shaded locations). Analytes in soils exceeding Restricted-Residential Use, Commercial Use and Industrial Use SCOs relative to both the findings of this assessment and the three (3) prior investigations are in tables within the figure for each sampling location.

4.3 Summary of Soil Sampling Results – Current and Former Sampling Events

Each of the site parcels is noted to have at least one (1) exceedance above Restricted Residential Use SCOs (the intended use of the site) summarized as follows:

742 State Street

Area 5 (6.5′) (July 2003 sampling event) with five (5) SVOCs above their corresponding Restricted Residential SCOs.

B-1 (8-10′) (May 2023 sampling event) with one (1) metal above its corresponding Restricted Residential SCO.

B-3 (14-15′) (May 2023 sampling event) with four (4) SVOCs above their corresponding Restricted Residential SCOs.

GP-9 (5-7.5′) (May 2024 sampling event) with two (2) SVOCs and two (2) metals above their respective Restricted Residential SCOs.

754 State Street

GP-4 (10-11′) (November 2023 sampling event) with seven (7) SVOCs and one (1) metal above their respective Restricted Residential SCOs.

GP-4 (15-16′) (November 2023 sampling event) with four (4) SVOCs above their respective Restricted Residential SCOs.

GP-5 (1-2′) (November 2023 sampling event) with four (4) SVOCs above their respective Restricted Residential SCOs.

TP-3 (September 2024 sampling event) with six (6) SVOCs above their respective Restricted Residential SCOs.

758 State Street

GP-14 (5-6′) (May 2024 sampling event) with nine (9) SVOCs above their respective Restricted Residential SCOs.

749 Albany Street

GP-16 (2.5-5') (May 2024 sampling event) with one (1) metal above its respective Restricted Residential SCO.

5.0 CONCLUSIONS

5.1 Conclusions

This Supplemental Subsurface Assessment of the Schenectady 40 Anchor Site included the advancement of ten (10) soil borings, the excavation of three (3) test pits and the collection of soil samples for field vapor screening and laboratory analysis.

The soils within the site and to the depths explored during this assessment (up to 10 feet bgs) generally consisted of fine to coarse sand with silt and urban fill comprised of ash, brick, coal, concrete rubble and glass. The PID readings for the soil samples collected from the soil borings were generally less than 10 ppm above background. Slightly elevated readings were recorded in two (2) soil samples from the soil borings; however, the readings recorded appeared to be related to moisture content. The soil samples did not exhibit petrochemical type odors, staining or sheens. Slightly elevated readings were recorded from the soils collected from TP-1 and TP-2; however, these samples did not exhibit petrochemical type odors, staining or sheens. The sample collected from TP-3 had an elevated PID reading of 195.5 ppm and exhibited a petrochemical type odor and staining.

Groundwater was encountered from approximately 5.5 feet bgs to 10 feet bgs during the advancement of the soil borings but was not encountered at either GP-15 or GP-16. At the time of the excavation of the test pits, groundwater had infiltrated the basement remains of the former 754 State Street building.

Impacts to soils have been documented through various investigations at the site including post excavation samples for soil/UST removal activities conducted in 2003; the 2023 Phase II ESA conducted by LaBella, and the 2024 Phase II ESA completed by C.T. Male as well as during this supplemental assessment. Impacts to soils appear to be related to a petroleum release at the suspect UST to the north of the southwestern portion of the former 754 State Street building as documented by VOCs above Unrestricted Use/CP-51 SCOs, and by the presence of fill materials throughout the site as documented by SVOCs and metals above Restricted Residential Use SCOs. Select SVOCs and one (1) metal (mercury) are noted to exceed Industrial Use SCOs.

Similarly, impacts to groundwater have been documented through the LaBella Phase II ESA and as a function of the 2024 Phase II ESA conducted by C.T. Male. Petroleum related compounds were identified proximate to the suspect UST to the north of the

southwestern portion of the former 754 State Street building. Metals and SVOCs were detected above groundwater standards/guidance values on various portions of the site.

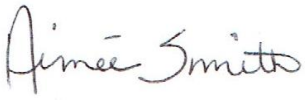
5.2 Recommendations

As an active spill is listed for the site, this report should be submitted to Mr. Joshua Utberg of the NYSDEC (joshua.utberg@dec.ny.gov) for review and comment and to determine if additional investigation or remedial activities are required by NYSDEC.

It is understood that the site is being contemplated for the NYSDEC BCP. Remedial investigations and actions for the site will be prescribed through the BCP program. Otherwise, recommendations are outlined in C.T. Male's 2024 Phase II ESA report.

The findings and conclusions of this Supplemental Phase II ESA represent the site conditions as disclosed through the investigations performed at the time completed and may not be representative of the entire site. No other warranties expressed or implied are made. If you have any questions regarding this report, please contact this office at (518) 786-7400.

Respectfully submitted,
C.T. MALE ASSOCIATES



Aimee Smith
Project Manager

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TABLES

TABLE 4.1-1: Summary of Subsurface Soil Sampling Results & Regulatory Values – SVOCs and Metals

TABLE 4.1-2: Summary of Subsurface Soil Sampling Results & Regulatory Values - VOCs

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TABLE 4.1-1
SUMMARY OF SOIL SAMPLING RESULTS AND REGULATORY VALUES
SVOCS/METALS
SUPPLEMENTAL SUBSURFACE ASSESSMENT
SCHENECTADY 40 ANCHOR SITE

						SAMPLE ID:	GP-7_5-7.5			GP-8_5-7.5			GP-9_5-7.5			GP-10_2.5-5			GP-11 (2.5-5')		
						LAB ID:	L2427928-01			L2427928-02			L2427928-03			L2427928-04			L2427928-05		
						COLLECTION DATE:	5/20/2024			5/20/2024			5/20/2024			5/20/2024			5/20/2024		
	NY-UNRES	NY-RESR	NY-RESRR	NY-RESC	NY-RESI																
ANALYTE	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL
SEMIVOLATILE ORGANICS BY GC/MS																					
Acenaphthene	20	100	100	500	1000		ND		0.14	ND		0.15	0.1	J	0.15	0.019	J	0.14	0.1	J	0.14
Acenaphthylene	100	100	100	500	1000		ND		0.14	0.076	J	0.15	0.078	J	0.15	0.035	J	0.14	ND		0.14
Anthracene	100	100	100	500	1000		ND		0.1	0.045	J	0.11	0.21		0.11	0.075	J	0.11	0.26		0.1
Benzo(a)anthracene	1	1	1	5.6	11		0.038	J	0.1	0.076	J	0.11	0.83		0.11	0.25		0.11	0.69		0.1
Benzo(a)pyrene	1	1	1	1	1.1		ND		0.14	0.1	J	0.15	0.85		0.15	0.24		0.14	0.68		0.14
Benzo(b)fluoranthene	1	1	1	5.6	11		0.053	J	0.1	0.16		0.11	1.1		0.11	0.29		0.11	0.81		0.1
Benzo(ghi)perylene	100	100	100	500	1000		0.027	J	0.14	0.085	J	0.15	0.62		0.15	0.16		0.14	0.48		0.14
Benzo(k)fluoranthene	0.8	1	3.9	56	110		ND		0.1	0.06	J	0.11	0.37		0.11	0.096	J	0.11	0.23		0.1
Chrysene	1	1	3.9	56	110		0.061	J	0.1	0.14		0.11	0.89		0.11	0.25		0.11	0.75		0.1
Dibenzo(a,h)anthracene	0.33	0.33	0.33	0.56	1.1		ND		0.1	0.023	J	0.11	0.13		0.11	0.034	J	0.11	0.097	J	0.1
Fluoranthene	100	100	100	500	1000		0.18		0.1	0.33		0.11	1.7		0.11	0.59		0.11	1.3		0.1
Fluorene	30	100	100	500	1000		ND		0.17	0.024	J	0.19	0.07	J	0.18	0.028	J	0.18	0.075	J	0.18
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	5.6	11		ND		0.14	0.079	J	0.15	0.57		0.15	0.14		0.14	0.4		0.14
Phenanthrene	100	100	100	500	1000		0.11		0.1	0.23		0.11	0.87		0.11	0.36		0.11	0.78		0.1
Pyrene	100	100	100	500	1000		0.17		0.1	0.26		0.11	1.5		0.11	0.53		0.11	1.4		0.1
TOTAL METALS																					
Aluminum, Total	NS	NS	NS	NS	NS		6270		8.2	3340		17.5	5650		8.81	4050		8.47	4770		8.39
Antimony, Total	NS	NS	NS	NS	NS		ND		4.1	ND		8.73	1.6	J	4.4	0.805	J	4.24	0.624	J	4.19
Arsenic, Total	13	16	16	16	16		3.33		0.82	3.1		1.75	8.3		0.881	4.41		0.847	4.61		0.839
Barium, Total	350	350	400	400	10000		24.5		0.82	52.8		1.75	114		0.881	49.2		0.847	40.5		0.839
Beryllium, Total	7.2	14	72	590	2700		0.273	J	0.41	0.198	J	0.873	0.334	J	0.44	0.229	J	0.424	0.302	J	0.419
Cadmium, Total	2.5	2.5	4.3	9.3	60		0.19	J	0.82	0.195	J	1.75	0.899		0.881	0.404	J	0.847	0.25	J	0.839
Calcium, Total	NS	NS	NS	NS	NS		37000		8.2	103000		17.5	26800		8.81	13200		8.47	31700		8.39
Chromium, Total	NS	NS	NS	NS	NS		9.85		0.82	5.52		1.75	36.9		0.881	11.3		0.847	7.14		0.839
Cobalt, Total	NS	NS	NS	NS	NS		4.48		1.64	3.4	J	3.49	4.83		1.76	2.74		1.69	3.7		1.68
Copper, Total	50	270	270	270	10000		13.9		0.82	13.5		1.75	32.3		0.881	43.1		0.847	24		0.839
Iron, Total	NS	NS	NS	NS	NS		15300		4.1	7940		8.73	17400		4.4	10100		4.24	12100		4.19
Lead, Total	63	400	400	1000	3900		21.6		4.1	104		8.73	1130		4.4	242		4.24	215		4.19
Magnesium, Total	NS	NS	NS	NS	NS		6540		8.2	6240		17.5	6440		8.81	3120		8.47	10700		8.39
Manganese, Total	1600	2000	2000	10000	10000		376		0.82	242		1.75	297		0.881	144		0.847	232		0.839
Mercury, Total	0.18	0.81	0.81	2.8	5.7		0.138		0.068	0.172		0.073	30.5		1.42	0.23		0.071	0.423		0.07
Nickel, Total	30	140	310	310	10000		11.3		2.05	7.42		4.37	11.6		2.2	6.19		2.12	8.71		2.1
Potassium, Total	NS	NS	NS	NS	NS		514		205	294	J	437	592		220	349		212	412		210
Silver, Total	2	36	180	1500	6800		ND		0.41	ND		0.873	ND		0.44	ND		0.424	ND		0.419
Sodium, Total	NS	NS	NS	NS	NS		303		164	87.3	J	349	294		176	290		169	103	J	168
Vanadium, Total	NS	NS	NS	NS	NS		14.5		0.82	9.19		1.75	17.1		0.881	12.3		0.847	14.2		0.839
Zinc, Total	109	2200	10000	10000	10000		49.8		4.1	79.9		8.73	575		4.4	241		4.24	81.9		4.19

Values are shown in mg/kg or parts per million.
Shaded values exceed their respective SCOs
Only the compounds that were detected are listed.
ND = Not Detected above the laboratory method detection limit
NS = No Standard
J = Estimated Value
E = Concentration of analyte exceeds range of the calibration curve and/or linear range of the instrument.
NY-UNRES= New York NYCRR Part 375 New York Unrestricted use Criteria Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.
NY-RESR = New York NYCRR Part 375 Residential Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.
NY-RESRR = New York NYCRR Part 375 Restricted-Residential Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.
NY-RESC = New York NYCRR Part 375 Commercial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.
NY-RESI = New York NYCRR Part 375 Industrial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

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TABLE 4.1-1
SUMMARY OF SOIL SAMPLING RESULTS AND REGULATORY VALUES
SVOCS/METALS
SUPPLEMENTAL SUBSURFACE ASSESSMENT
SCHENECTADY 40 ANCHOR SITE

						SAMPLE ID:	GP-12 (5-7.5')			GP-13 (5-7.5')			GP-14 (5-6')			GP-14 (5-6')			GP-15 (5-7')		
						LAB ID:	L2427928-06			L2427928-07			L2427928-08			L2427928-08 R1			L2427928-09		
						COLLECTION DATE:	5/20/2024			5/20/2024			5/20/2024			5/20/2024			5/20/2024		
	NY-UNRES	**NY-RESR**	**NY-RESRR**	**NY-RESC**	**NY-RESI**																
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL
SEMIVOLATILE ORGANICS BY GC/MS																				
Acenaphthene	20	100	100	500	1000	ND		0.15	ND		0.16	11		1.6	-		-	0.026	J	0.14
Acenaphthylene	100	100	100	500	1000	ND		0.15	ND		0.16	11		1.6	-		-	ND		0.14
Anthracene	100	100	100	500	1000	ND		0.11	ND		0.12	23		1.2	-		-	0.074	J	0.11
Benzo(a)anthracene	1	1	1	5.6	11	0.031	J	0.11	ND		0.12	47		1.2	-		-	0.18		0.11
Benzo(a)pyrene	1	1	1	1	1.1	ND		0.15	ND		0.16	44		1.6	-		-	0.18		0.14
Benzo(b)fluoranthene	1	1	1	5.6	11	0.042	J	0.11	ND		0.12	54		1.2	-		-	0.23		0.11
Benzo(ghi)perylene	100	100	100	500	1000	0.024	J	0.15	ND		0.16	26		1.6	-		-	0.11	J	0.14
Benzo(k)fluoranthene	0.8	1	3.9	56	110	ND		0.11	ND		0.12	18		1.2	-		-	0.074	J	0.11
Chrysene	1	1	3.9	56	110	0.053	J	0.11	ND		0.12	39		1.2	-		-	0.18		0.11
Dibenzo(a,h)anthracene	0.33	0.33	0.33	0.56	1.1	ND		0.11	ND		0.12	6.6		1.2	-		-	0.028	J	0.11
Fluoranthene	100	100	100	500	1000	0.093	J	0.11	ND		0.12	90	E	1.2	170		5.9	0.4		0.11
Fluorene	30	100	100	500	1000	ND		0.18	ND		0.2	17		2	-		-	0.027	J	0.18
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	5.6	11	ND		0.15	ND		0.16	27		1.6	-		-	0.1	J	0.14
Phenanthrene	100	100	100	500	1000	0.057	J	0.11	ND		0.12	80	E	1.2	140		5.9	0.23		0.11
Pyrene	100	100	100	500	1000	0.093	J	0.11	ND		0.12	71		1.2	-		-	0.33		0.11
TOTAL METALS																				
Aluminum, Total	NS	NS	NS	NS	NS	3730		8.55	5350		9.56	6220		9.11	-		-	6830		8.64
Antimony, Total	NS	NS	NS	NS	NS	ND		4.28	0.405	J	4.78	1.04	J	4.56	-		-	ND		4.32
Arsenic, Total	13	16	16	16	16	2.67		0.855	7.55		0.956	4.33		0.911	-		-	4.05		0.864
Barium, Total	350	350	400	400	10000	13.6		0.855	152		0.956	282		0.911	-		-	58.7		0.864
Beryllium, Total	7.2	14	72	590	2700	0.222	J	0.428	0.259	J	0.478	0.338	J	0.456	-		-	0.301	J	0.432
Cadmium, Total	2.5	2.5	4.3	9.3	60	0.129	J	0.855	1.08		0.956	0.242	J	0.911	-		-	0.156	J	0.864
Calcium, Total	NS	NS	NS	NS	NS	2910		8.55	79200		9.56	87000		9.11	-		-	61200		8.64
Chromium, Total	NS	NS	NS	NS	NS	5.37		0.855	10.8		0.956	12.6		0.911	-		-	12.9		0.864
Cobalt, Total	NS	NS	NS	NS	NS	3.15		1.71	3.41		1.91	3.72		1.82	-		-	3.17		1.73
Copper, Total	50	270	270	270	10000	8.26		0.855	11.2		0.956	16.9		0.911	-		-	11.9		0.864
Iron, Total	NS	NS	NS	NS	NS	10100		4.28	11700		4.78	11400		4.56	-		-	11000		4.32
Lead, Total	63	400	400	1000	3900	8.71		4.28	334		4.78	39.4		4.56	-		-	40.2		4.32
Magnesium, Total	NS	NS	NS	NS	NS	2240		8.55	5310		9.56	12900		9.11	-		-	8810		8.64
Manganese, Total	1600	2000	2000	10000	10000	206		0.855	216		0.956	315		0.911	-		-	247		0.864
Mercury, Total	0.18	0.81	0.81	2.8	5.7	0.06	J	0.072	0.265		0.078	0.09		0.076	-		-	0.095		0.069
Nickel, Total	30	140	310	310	10000	6.26		2.14	6.95		2.39	11.1		2.28	-		-	7.98		2.16
Potassium, Total	NS	NS	NS	NS	NS	250		214	635		239	588		228	-		-	508		216
Silver, Total	2	36	180	1500	6800	ND		0.428	ND		0.478	0.273	J	0.456	-		-	ND		0.432
Sodium, Total	NS	NS	NS	NS	NS	51.6	J	171	475		191	429		182	-		-	244		173
Vanadium, Total	NS	NS	NS	NS	NS	10.4		0.855	18.7		0.956	16.4		0.911	-		-	12.9		0.864
Zinc, Total	109	2200	10000	10000	10000	41.4		4.28	726		4.78	204		4.56	-		-	56.4		4.32

Values are shown in mg/kg or parts per million.
Shaded values exceed their respective SCOs
Only the compounds that were detected are listed.
ND = Not Detected above the laboratory method detection limit
NS = No Standard
J = Estimated Value
E = Concentration of analyte exceeds range of the calibration curve and/or linear range of the instrument.
NY-UNRES= New York NYCRR Part 375 New York Unrestricted use Criteria Criteria per 6 NYCRR Part 37
NY-RESR = New York NYCRR Part 375 Residential Criteria, New York Restricted use Criteria per 6 NYCRI
NY-RESRR = New York NYCRR Part 375 Restricted-Residential Criteria, New York Restricted use Criteria
NY-RESC = New York NYCRR Part 375 Commercial Criteria, New York Restricted use Criteria per 6 NYCF
NY-RESI = New York NYCRR Part 375 Industrial Criteria, New York Restricted use Criteria per 6 NYCRR F

TABLE 4.1-1
SUMMARY OF SOIL SAMPLING RESULTS AND REGULATORY VALUES
SVOCS/METALS
SUPPLEMENTAL SUBSURFACE ASSESSMENT
SCHENECTADY 40 ANCHOR SITE

					SAMPLE ID:	GP-16 (2.5-5')			TP-1			TP-2			TP-3		
					LAB ID:	L2427928-10			L2450528-01			L2450528-02			L2450528-03		
					COLLECTION DATE:	5/20/2024			9/5/2024			9/5/2024			9/5/2024		
	NY-UNRES	**NY-RESR**	**NY-RESRR**	**NY-RESC**	**NY-RESI**												
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL
SEMIVOLATILE ORGANICS BY GC/MS																	
Acenaphthene	20	100	100	500	1000	ND		0.17	ND		0.18	0.44	J	0.86	0.12	J	0.17
Acenaphthylene	100	100	100	500	1000	ND		0.17	ND		0.18	4.8		0.86	ND		0.17
Anthracene	100	100	100	500	1000	ND		0.12	ND		0.13	4.2		0.64	0.12		0.12
Benzo(a)anthracene	1	1	1	5.6	11	0.075	J	0.12	0.12	J	0.13	10		0.64	0.34		0.12
Benzo(a)pyrene	1	1	1	1	1.1	0.073	J	0.17	0.12	J	0.18	9.4		0.86	0.2		0.17
Benzo(b)fluoranthene	1	1	1	5.6	11	0.091	J	0.12	0.17		0.13	16		0.64	0.3		0.12
Benzo(ghi)perylene	100	100	100	500	1000	0.044	J	0.17	0.091	J	0.18	7		0.86	0.1	J	0.17
Benzo(k)fluoranthene	0.8	1	3.9	56	110	ND		0.12	0.048	J	0.13	3.2		0.64	0.081	J	0.12
Chrysene	1	1	3.9	56	110	0.068	J	0.12	0.13		0.13	10		0.64	0.34		0.12
Dibenzo(a,h)anthracene	0.33	0.33	0.33	0.56	1.1	ND		0.12	0.026	J	0.13	1.9		0.64	0.037	J	0.12
Fluoranthene	100	100	100	500	1000	0.14		0.12	0.22		0.13	24		0.64	0.76		0.12
Fluorene	30	100	100	500	1000	ND		0.21	ND		0.22	1.4		1.1	0.38		0.21
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.5	5.6	11	0.042	J	0.17	0.073	J	0.18	5.7		0.86	0.077	J	0.17
Phenanthrene	100	100	100	500	1000	0.027	J	0.12	0.1	J	0.13	21		0.64	0.54		0.12
Pyrene	100	100	100	500	1000	0.12		0.12	0.18		0.13	18		0.64	0.62		0.12
TOTAL METALS																	
Aluminum, Total	NS	NS	NS	NS	NS	4060		9.63	2790		10.2	3870		10.2	4300		9.78
Antimony, Total	NS	NS	NS	NS	NS	0.57	J	4.82	ND		5.12	ND		5.09	ND		4.89
Arsenic, Total	13	16	16	16	16	6.13		0.963	2.56		1.02	3.49		1.02	2.08		0.978
Barium, Total	350	350	400	400	10000	228		0.963	13.1		1.02	72.8		1.02	19.1		0.978
Beryllium, Total	7.2	14	72	590	2700	0.262	J	0.482	0.179	J	0.512	0.235	J	0.509	0.274	J	0.489
Cadmium, Total	2.5	2.5	4.3	9.3	60	0.816	J	0.963	ND		1.02	ND		1.02	ND		0.978
Calcium, Total	NS	NS	NS	NS	NS	56400		9.63	2160		10.2	7510		10.2	8550		9.78
Chromium, Total	NS	NS	NS	NS	NS	23		0.963	5.11		1.02	9.06		1.02	4.89		0.978
Cobalt, Total	NS	NS	NS	NS	NS	3.47		1.93	3.28		2.05	3.02		2.04	3.43		1.96
Copper, Total	50	270	270	270	10000	54.4		0.963	7.7		1.02	19.3		1.02	11.4		0.978
Iron, Total	NS	NS	NS	NS	NS	11000		4.82	9870		5.12	9770		5.09	10200		4.89
Lead, Total	63	400	400	1000	3900	689		4.82	3.8	J	5.12	71.9		5.09	9.1		4.89
Magnesium, Total	NS	NS	NS	NS	NS	2350		9.63	1160		10.2	1690		10.2	1570		9.78
Manganese, Total	1600	2000	2000	10000	10000	216		0.963	120		1.02	180		1.02	331		0.978
Mercury, Total	0.18	0.81	0.81	2.8	5.7	0.53		0.079	ND		0.085	0.358		0.084	ND		0.081
Nickel, Total	30	140	310	310	10000	9.44		2.41	6.79		2.56	6.75		2.55	7.99		2.45
Potassium, Total	NS	NS	NS	NS	NS	358		241	290		256	292		255	339		245
Silver, Total	2	36	180	1500	6800	ND		0.482	ND		0.512	ND		0.509	ND		0.489
Sodium, Total	NS	NS	NS	NS	NS	114	J	193	120	J	205	119	J	204	62.8	J	196
Vanadium, Total	NS	NS	NS	NS	NS	11		0.963	11.2		1.02	10.9		1.02	9.78		0.978
Zinc, Total	109	2200	10000	10000	10000	603		4.82	23.3		5.12	115		5.09	25.9		4.89

Values are shown in mg/kg or parts per million.
Shaded values exceed their respective SCOs
Only the compounds that were detected are listed.
ND = Not Detected above the laboratory method detection limit
NS = No Standard
J = Estimated Value
E = Concentration of analyte exceeds range of the calibration curve and/or linear range of the instrument.
NY-UNRES= New York NYCRR Part 375 New York Unrestricted use Criteria Criteria per 6 NYCRR Part 37
NY-RESR = New York NYCRR Part 375 Residential Criteria, New York Restricted use Criteria per 6 NYCRI
NY-RESRR = New York NYCRR Part 375 Restricted-Residential Criteria, New York Restricted use Criteria
NY-RESC = New York NYCRR Part 375 Commercial Criteria, New York Restricted use Criteria per 6 NYCF
NY-RESI = New York NYCRR Part 375 Industrial Criteria, New York Restricted use Criteria per 6 NYCRR F

TABLE 4.1-2
SUMMARY OF SOIL SAMPLING RESULTS AND REGULATORY VALUES
VOCS
SUPPLEMENTAL SUBSURFACE ASSESSMENT
SCHENECTADY 40 ANCHOR SITE

					SAMPLE ID:	TP-1			TP-2			TP-3		
					LAB ID:	L2450528-01			L2450528-02			L2450528-03		
					COLLECTION DATE:	9/5/2024			9/5/2024			9/5/2024		
	NY-UNRES	**NY-RESR**	**NY-RESRR**	**NY-RESC**	**NY-RESI**									
ANALYTE	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	**(mg/kg)**	Result	Flg	RL	Result	Flg	RL	Result	Flg	RL
VOLATILE ORGANICS BY EPA 5035														
1,3,5-Trimethylbenzene	8.4	47	52	190	380	ND		0.0026	ND		0.0023	0.0007	J	0.0021
2-Butanone	0.12	100	100	500	1000	ND		0.013	ND		0.011	0.013		0.01
Acetone	0.05	100	100	500	1000	0.017		0.013	0.015		0.011	0.085		0.01
cis-1,2-Dichloroethene	0.25	59	100	500	1000	ND		0.0013	ND		0.0011	0.00027	J	0.001
Isopropylbenzene	NA	NA	NA	NA	NA	ND		0.0013	ND		0.0011	0.0087		0.001
Methyl Acetate	NA	NA	NA	NA	NA	ND		0.0053	ND		0.0046	0.0017	J	0.0042
Methyl cyclohexane	NA	NA	NA	NA	NA	ND		0.0053	0.00074	J	0.0046	0.0038	J	0.0042
n-Butylbenzene	12	100	100	500	1000	ND		0.0013	ND		0.0011	0.086		0.001
n-Propylbenzene	3.9	100	100	500	1000	ND		0.0013	ND		0.0011	0.011		0.001
Naphthalene	12	100	100	500	1000	ND		0.0053	0.0014	J	0.0046	0.0042		0.0042
o-Xylene	NA	NA	NA	NA	NA	ND		0.0013	ND		0.0011	0.00061	J	0.001
p-Isopropyltoluene	NA	NA	NA	NA	NA	ND		0.0013	0.00023	J	0.0011	ND		0.001
sec-Butylbenzene	11	100	100	500	1000	ND		0.0013	ND		0.0011	0.11		0.001
tert-Butylbenzene	5.9	100	100	500	1000	ND		0.0026	ND		0.0023	0.0062		0.0021
Trichlorofluoromethane	NA	NA	NA	NA	NA	ND		0.0053	0.0024	J	0.0046	ND		0.0042

Values are shown in mg/kg or parts per million.

Shaded values exceed their respective SCOs

Only the compounds that were detected are listed.

ND = Not Detected above the laboratory method detection limit

NS = No Standard

J = Estimated Value

NY-UNRES= New York NYCRR Part 375 New York Unrestricted use Criteria Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2

NY-RESR = New York NYCRR Part 375 Residential Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2

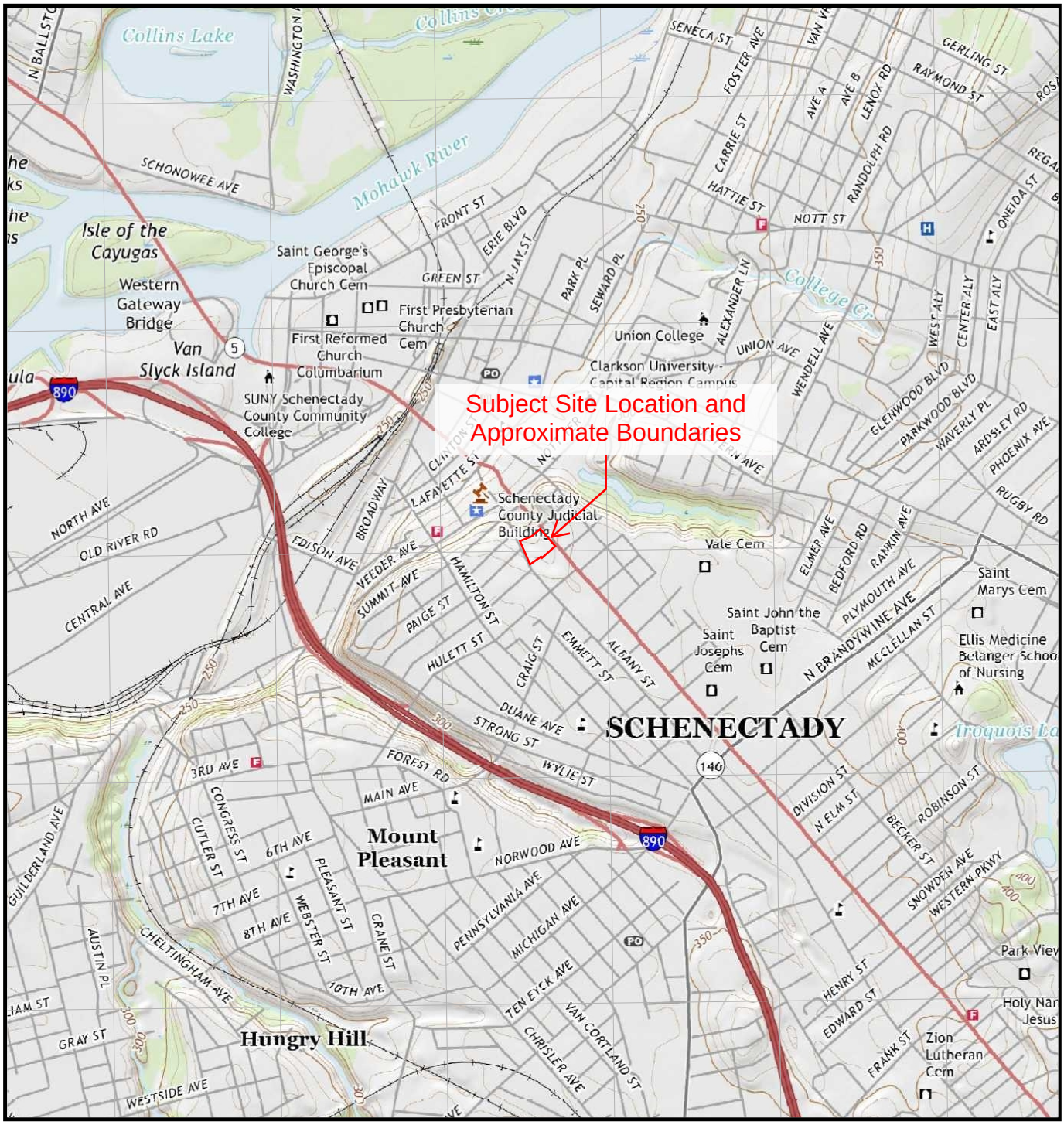
NY-RESRR = New York NYCRR Part 375 Restricted-Residential Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

NY-RESC = New York NYCRR Part 375 Commercial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

NY-RESI = New York NYCRR Part 375 Industrial Criteria, New York Restricted use Criteria per 6 NYCRR Part 375 Environmental Remediation Programs, effective December 14, 2006.

APPENDIX A

Figures/Maps



MAP REFERENCE
United States Geological Survey
7.5 Minute Series Topographic Map
Quadrangle: Schenectady, NY
Date: 2019

N

C.T.MALE ASSOCIATES
ENGINEERING, SURVEYING, ARCHITECTURE
LANDSCAPE ARCHITECTURE & GEOLOGY, D.P.C.

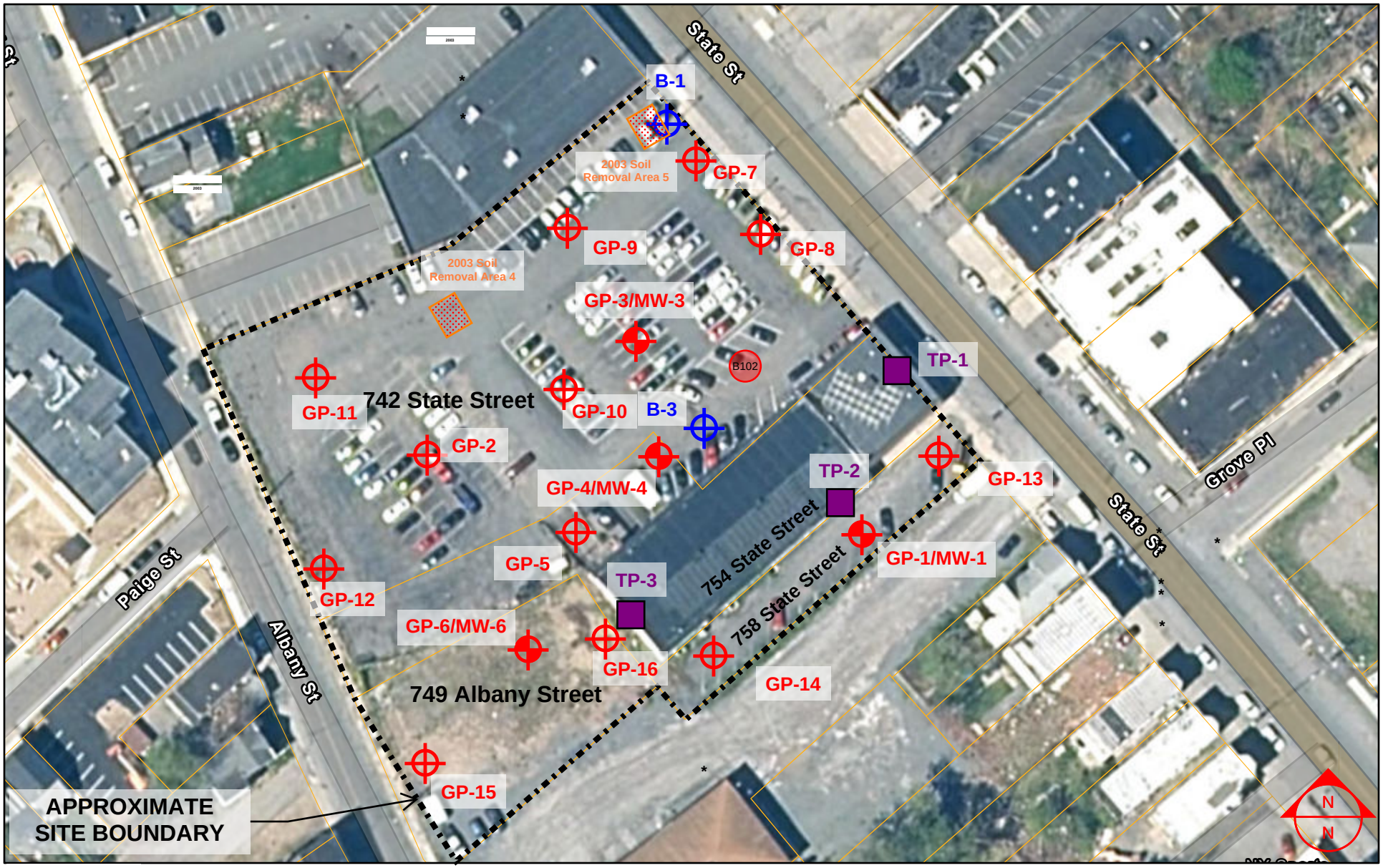
50 CENTURY HILL DRIVE
LATHAM, NY 12110

FIGURE 1 - SUBJECT SITE LOCATION MAP

CITY OF SCHENECTADY	SCHENECTADY COUNTY, NY
SCALE: 1:24,000±	The locations and features depicted on this map are approximate and do not represent an actual survey.
DRAFTER: AR	
PROJECT No.: 23.3588	

FIGURE 2 - SAMPLING LOCATIONS PLAN

REPORT 4



LEGEND

- GP-1/MW-1 — Approximate Location and ID of Geoprobe Soil Boring Location Converted to a Monitoring Well
- GP-2 — Approximate Location and ID of Geoprobe Soil Boring
- B102 — Approximate Location and ID of Geotechnical Soil Boring (only the boring sampled for the Phase II ESA Shown)
- B-3 — Approximate Location and ID of Soil Boring Advanced as a function of LaBella's Phase II ESA
- Approximate Location of 2003 Soil Removal Area
- Approximate Location of Test Pits

1:1,317

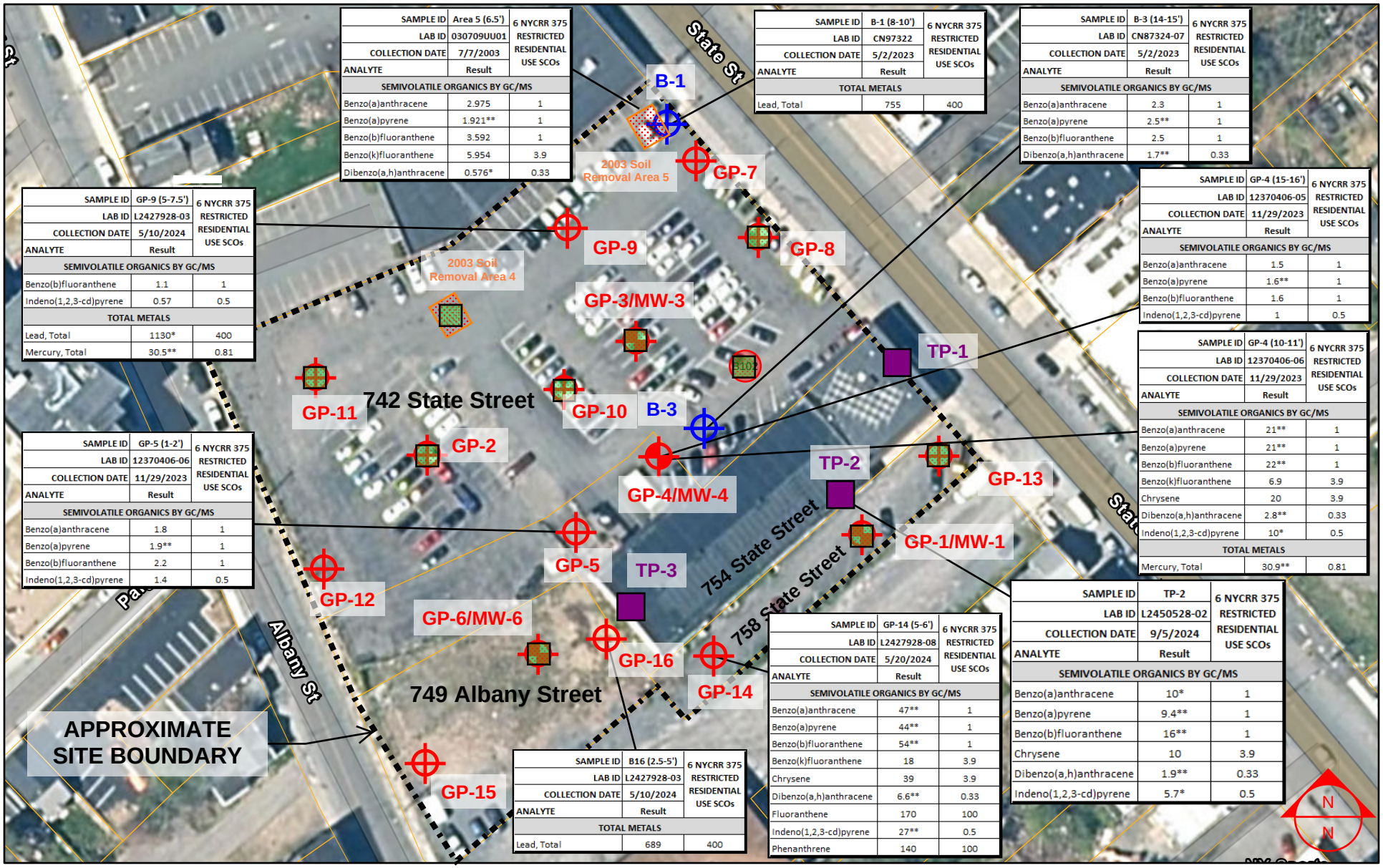
0 0.01 0.01 0.03 mi

0 0.01 0.03 0.05 km

FIGURE 3

REPORT 4

ANALYTES IN SOILS EXCEEDING RESTRICTED-RESIDENTIAL USE SOIL CLEANUP OBJECTIVES



SAMPLE ID	Area 5 (6.5')	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	030709UU01	
COLLECTION DATE	7/7/2003	
ANALYTE	Result	
SEMIVOLATILE ORGANICS BY GC/MS		
Benzo(a)anthracene	2.975	1
Benzo(a)pyrene	1.921**	1
Benzo(b)fluoranthene	3.592	1
Benzo(k)fluoranthene	5.954	3.9
Dibenzo(a,h)anthracene	0.576*	0.33

SAMPLE ID	B-1 (8-10')	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	CN97322	
COLLECTION DATE	5/2/2023	
ANALYTE	Result	
TOTAL METALS		
Lead, Total	755	400

SAMPLE ID	B-3 (14-15')	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	CN87324-07	
COLLECTION DATE	5/2/2023	
ANALYTE	Result	
SEMIVOLATILE ORGANICS BY GC/MS		
Benzo(a)anthracene	2.3	1
Benzo(a)pyrene	2.5**	1
Benzo(b)fluoranthene	2.5	1
Dibenzo(a,h)anthracene	1.7**	0.33

SAMPLE ID	GP-9 (5-7.5')	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2427928-03	
COLLECTION DATE	5/10/2024	
ANALYTE	Result	
SEMIVOLATILE ORGANICS BY GC/MS		
Benzo(b)fluoranthene	1.1	1
Indeno(1,2,3-cd)pyrene	0.57	0.5
TOTAL METALS		
Lead, Total	1130*	400
Mercury, Total	30.5**	0.81

SAMPLE ID	GP-4 (15-16')	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	12370406-05	
COLLECTION DATE	11/29/2023	
ANALYTE	Result	
SEMIVOLATILE ORGANICS BY GC/MS		
Benzo(a)anthracene	1.5	1
Benzo(a)pyrene	1.6**	1
Benzo(b)fluoranthene	1.6	1
Indeno(1,2,3-cd)pyrene	1	0.5

SAMPLE ID	GP-4 (10-11')	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	12370406-06	
COLLECTION DATE	11/29/2023	
ANALYTE	Result	
SEMIVOLATILE ORGANICS BY GC/MS		
Benzo(a)anthracene	21**	1
Benzo(a)pyrene	21**	1
Benzo(b)fluoranthene	22**	1
Benzo(k)fluoranthene	6.9	3.9
Chrysene	20	3.9
Dibenzo(a,h)anthracene	2.8**	0.33
Indeno(1,2,3-cd)pyrene	10*	0.5
TOTAL METALS		
Mercury, Total	30.9**	0.81

SAMPLE ID	GP-5 (1-2')	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	12370406-06	
COLLECTION DATE	11/29/2023	
ANALYTE	Result	
SEMIVOLATILE ORGANICS BY GC/MS		
Benzo(a)anthracene	1.8	1
Benzo(a)pyrene	1.9**	1
Benzo(b)fluoranthene	2.2	1
Indeno(1,2,3-cd)pyrene	1.4	0.5

SAMPLE ID	TP-2	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2450528-02	
COLLECTION DATE	9/5/2024	
ANALYTE	Result	
SEMIVOLATILE ORGANICS BY GC/MS		
Benzo(a)anthracene	10*	1
Benzo(a)pyrene	9.4**	1
Benzo(b)fluoranthene	16**	1
Chrysene	10	3.9
Dibenzo(a,h)anthracene	1.9**	0.33
Indeno(1,2,3-cd)pyrene	5.7*	0.5

SAMPLE ID	GP-14 (5-6')	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2427928-08	
COLLECTION DATE	5/20/2024	
ANALYTE	Result	
SEMIVOLATILE ORGANICS BY GC/MS		
Benzo(a)anthracene	47**	1
Benzo(a)pyrene	44**	1
Benzo(b)fluoranthene	54**	1
Benzo(k)fluoranthene	18	3.9
Chrysene	39	3.9
Dibenzo(a,h)anthracene	6.6**	0.33
Fluoranthene	170	100
Indeno(1,2,3-cd)pyrene	27**	0.5
Phenanthrene	140	100

SAMPLE ID	B16 (2.5-5')	6 NYCRR 375 RESTRICTED RESIDENTIAL USE SCOs
LAB ID	L2427928-03	
COLLECTION DATE	5/10/2024	
ANALYTE	Result	
TOTAL METALS		
Lead, Total	689	400

LEGEND

GP-1/MW-1 — Approximate Location and ID of Geoprobe Soil Boring Location Converted to a Monitoring Well

GP-2 — Approximate Location and ID of Geoprobe Soil Boring

B102 — Approximate Location and ID of Geotechnical Soil Boring (only the boring sampled for the Phase II ESA Shown)

B-3 — Approximate Location and ID of Soil Boring Advanced as a function of LaBella's Phase II ESA

Approximate Location of 2003 Soil Removal Area

Sampling Location That Exceeds Unrestricted Use SCOs

TP-1 — Approximate Location and ID of Test Pit

* Indicates analyte also exceeds its Commercial Use SCO

**Indicates analyte also exceeds its Industrial Use SCO

1:1,317

0 0.01 0.01 0.03 mi

0 0.01 0.03 0.05 km

APPENDIX B

Subsurface Exploration Logs

C.T. MALE ASSOCIATES

DIRECT-PUSH EXPLORATION LOG

BORING NO.:	**GP-7**		
ELEV.:		**DATUM:**	
START DATE:	**5/20/2024**	**FINISH DATE:**	**5/20/2024**
SHEET	**1 of 1**		

PROJECT	40 Anchor Site	CTM PROJECT NO.:	23.3588
LOCATION:	Schenectady, NY	CTM OBSERVER:	A. Rogers

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE NUMBER	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
2		1	2.4	ASPHALT Brown-grey medium SAND, little grey gravel (damp)	
4		2		Grey GRAVEL and COBBLE (damp)	
6		3	2.5	Brown medium SAND, little grey gravel (damp)	
8		4			
10				(wet)	
				Boring terminated ±10' bgs	
12					
14					
16					
18					
20					

DRILLING CONTRACTOR:	Core Down Drilling
DIRECT-PUSH TYPE:	7822DT
METHOD OF SAMPLING:	5'x2.25" DT22 Dual Tube Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE EVALUATION. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY:
A. Rogers

C.T. MALE ASSOCIATES

DIRECT-PUSH EXPLORATION LOG

BORING NO.:	**GP-8**		
ELEV.:		**DATUM:**	
START DATE:	**5/20/2024**	**FINISH DATE:**	**5/20/2024**
SHEET	**1 of 1**		

PROJECT	40 Anchor Site	CTM PROJECT NO.:	23.3588
LOCATION:	Schenectady, NY	CTM OBSERVER:	A. Rogers

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE NUMBER	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
0				ASPHALT	
2		1	3.1	Brown-grey fine to medium SAND, little gravel (damp)	
4		2			
6		3	3.2	Light brown fine to medium SAND (damp)	
8		4		Brown fine to medium SAND (wet)	
10				Boring terminated ±10' bgs	
12					
14					
16					
18					
20					

DRILLING CONTRACTOR:	Core Down Drilling
DIRECT-PUSH TYPE:	7822DT
METHOD OF SAMPLING:	5'x2.25" DT22 Dual Tube Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE EVALUATION. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY:
A. Rogers

C.T. MALE ASSOCIATES

DIRECT-PUSH EXPLORATION LOG

BORING NO.:	**GP-9**		
ELEV.:		**DATUM:**	
START DATE:	**5/20/2024**	**FINISH DATE:**	**5/20/2024**
SHEET	**1 of 1**		

PROJECT	40 Anchor Site	CTM PROJECT NO.:	23.3588
LOCATION:	Schenectady, NY	CTM OBSERVER:	A. Rogers

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE NUMBER	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
2		1	3.0	ASPHALT URBAN FILL: Ash, gravel, concrete and asphalt (damp)	
4		2			
6		3	2.5	Brown fine to medium SAND (wet)	
8					
10		4			
12				Boring terminated ±10' bgs	
14					
16					
18					
20					

DRILLING CONTRACTOR:	Core Down Drilling
DIRECT-PUSH TYPE:	7822DT
METHOD OF SAMPLING:	5'x2.25" DT22 Dual Tube Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE EVALUATION. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY:
A. Rogers

C.T. MALE ASSOCIATES

DIRECT-PUSH EXPLORATION LOG

BORING NO.:	**GP-10**		
ELEV.:		**DATUM:**	
START DATE:	**5/20/2024**	**FINISH DATE:**	**5/20/2024**
SHEET	**1 of 1**		

PROJECT	40 Anchor Site	CTM PROJECT NO.:	23.3588
LOCATION:	Schenectady, NY	CTM OBSERVER:	A. Rogers

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE NUMBER	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
0		1		ASPHALT	
2			2.2	Brown medium SAND, little gravel (damp)	
4		2		URBAN FILL: Concrete and Asphalt (damp)	
6		3		Brown medium SAND, some Urban Fill: Brick and Asphalt (damp)	
8		4	3.1	Brown-grey medium SAND (wet)	
10				Boring terminated ±10' bgs	
12					
14					
16					
18					
20					

DRILLING CONTRACTOR:	Core Down Drilling
DIRECT-PUSH TYPE:	7822DT
METHOD OF SAMPLING:	5'x2.25" DT22 Dual Tube Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE EVALUATION. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY:
A. Rogers

C.T. MALE ASSOCIATES

DIRECT-PUSH EXPLORATION LOG

BORING NO.:	**GP-11**		
ELEV.:		**DATUM:**	
START DATE:	**5/20/2024**	**FINISH DATE:**	**5/20/2024**
SHEET	**1 of 1**		

PROJECT	40 Anchor Site	CTM PROJECT NO.:	23.3588
LOCATION:	Schenectady, NY	CTM OBSERVER:	A. Rogers

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE NUMBER	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
2		1	2.7	ASPHALT	
				URBAN FILL: Concrete, Ash, Asphalt, some brown med Sand (damp)	
4		2			
6		3			
8		4	2.6	Brown medium SAND, some Urban Fill: Brick (damp)	
10				(wet)	
				Boring terminated ±10' bgs	
12					
14					
16					
18					
20					

DRILLING CONTRACTOR:	Core Down Drilling
DIRECT-PUSH TYPE:	7822DT
METHOD OF SAMPLING:	5'x2.25" DT22 Dual Tube Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE EVALUATION. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY:
A. Rogers

C.T. MALE ASSOCIATES

DIRECT-PUSH EXPLORATION LOG

BORING NO.:	**GP-12**		
ELEV.:		**DATUM:**	
START DATE:	**5/20/2024**	**FINISH DATE:**	**5/20/2024**
SHEET	**1 of 1**		

PROJECT	40 Anchor Site	CTM PROJECT NO.:	23.3588
LOCATION:	Schenectady, NY	CTM OBSERVER:	A. Rogers

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE NUMBER	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
2		1	2.6	ASPHALT Brown-grey medium SAND (damp)	
4		2		Grey GRAVEL (damp)	
6		3	4.0	Brown fine to medium SAND (damp) (wet)	
8		4			
10					
12				Boring terminated ±10' bgs	
14					
16					
18					
20					

DRILLING CONTRACTOR:	Core Down Drilling
DIRECT-PUSH TYPE:	7822DT
METHOD OF SAMPLING:	5'x2.25" DT22 Dual Tube Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE EVALUATION. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY:
A. Rogers

C.T. MALE ASSOCIATES

DIRECT-PUSH EXPLORATION LOG

BORING NO.:	**GP-13**		
ELEV.:		**DATUM:**	
START DATE:	**5/20/2024**	**FINISH DATE:**	**5/20/2024**
SHEET	**1 of 1**		

PROJECT	40 Anchor Site	CTM PROJECT NO.:	23.3588
LOCATION:	Schenectady, NY	CTM OBSERVER:	A. Rogers

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE NUMBER	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
2		1	1.7	ASPHALT Brown medium SAND and URBAN FILL: Brick & Ash (damp)	
4		2			
6		3	3.0	Brown fine to medium SAND (damp)	
8		4		(wet)	
10					
12				Boring terminated ±10' bgs	
14					
16					
18					
20					

DRILLING CONTRACTOR:	Core Down Drilling
DIRECT-PUSH TYPE:	7822DT
METHOD OF SAMPLING:	5'x2.25" DT22 Dual Tube Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE EVALUATION. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY:
A. Rogers

C.T. MALE ASSOCIATES

DIRECT-PUSH EXPLORATION LOG

BORING NO.:	**GP-14**		
ELEV.:		**DATUM:**	
START DATE:	**5/20/2024**	**FINISH DATE:**	**5/20/2024**
SHEET	**1 of 1**		

PROJECT	40 Anchor Site	CTM PROJECT NO.:	23.3588
LOCATION:	Schenectady, NY	CTM OBSERVER:	A. Rogers

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE NUMBER	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
2		1	2.4	ASPHALT URBAN FILL:Concrete, brick, ash, wood, & brown fine to med SAND (damp)	
4		2			
6		3	0.5		
				Boring terminated ±6' bgs (Refusal)	
8					
10					
12					
14					
16					
18					
20					

DRILLING CONTRACTOR:	Core Down Drilling
DIRECT-PUSH TYPE:	7822DT
METHOD OF SAMPLING:	5'x2.25" DT22 Dual Tube Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE EVALUATION. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY:
A. Rogers

C.T. MALE ASSOCIATES

DIRECT-PUSH EXPLORATION LOG

BORING NO.:	**GP-15**		
ELEV.:		**DATUM:**	
START DATE:	**5/20/2024**	**FINISH DATE:**	**5/20/2024**
SHEET	**1 of 1**		

PROJECT	40 Anchor Site	CTM PROJECT NO.:	23.3588
LOCATION:	Schenectady, NY	CTM OBSERVER:	A. Rogers

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE NUMBER	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
2		1	2.5	TOPSOIL URBAN FILL:Concrete, brick, ash and fine to med SAND (damp)	
4		2			
6		3	1.7		
8		4			
10				Boring terminated ±9' bgs (Refusal)	
12					
14					
16					
18					
20					

DRILLING CONTRACTOR:	Core Down Drilling
DIRECT-PUSH TYPE:	7822DT
METHOD OF SAMPLING:	5'x2.25" DT22 Dual Tube Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE EVALUATION. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY:
A. Rogers

C.T. MALE ASSOCIATES

DIRECT-PUSH EXPLORATION LOG

BORING NO.:	**GP-14**		
ELEV.:		**DATUM:**	
START DATE:	**5/20/2024**	**FINISH DATE:**	**5/20/2024**
SHEET	**1 of 1**		

PROJECT	40 Anchor Site	CTM PROJECT NO.:	23.3588
LOCATION:	Schenectady, NY	CTM OBSERVER:	A. Rogers

DEPTH (FT)	SAMPLE INTERVAL	SAMPLE NUMBER	SAMPLE RECOVERY (FT)	SAMPLE CLASSIFICATION	NOTES
2		1	3.0	ASPHALT Brown-dark brown fine to medium SAND (damp) (wet)	
4		2		URBAN FILL: Ash and Asphalt (wet) Brown fine SAND and SILT (wet)	
6				Boring terminated ±5' bgs	
8					
10					
12					
14					
16					
18					
20					

DRILLING CONTRACTOR:	Core Down Drilling
DIRECT-PUSH TYPE:	7822DT
METHOD OF SAMPLING:	5'x2.25" DT22 Dual Tube Sampler

GROUNDWATER LEVEL READINGS

DATE	LEVEL	REFERENCE MEASURING POINT

THE SUBSURFACE INFORMATION SHOWN HEREON WAS OBTAINED FOR C.T. MALE EVALUATION. IT IS MADE AVAILABLE TO AUTHORIZED USERS ONLY THAT THEY MAY HAVE ACCESS TO THE SAME INFORMATION AVAILABLE TO C.T. MALE. IT IS PRESENTED IN GOOD FAITH, BUT IS NOT INTENDED AS A SUBSTITUTE FOR INVESTIGATIONS, INTERPRETATION OR JUDGMENT OF SUCH AUTHORIZED USERS.

SAMPLE CLASSIFICATION BY:
A. Rogers

APPENDIX C

Test Pit Logs

TEST PIT LOG

C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture,
Landscape Architecture & Geology, D.P.C.
50 Century Hill Drive
Latham, NY 12110
(518) 786-7400 • FAX (581) 786-7299

PROJECT NAME:	Schenectady 40 Anchor	EXCAVATOR:	Jackson Demolition
PROJECT NUMBER:	23.3588	EQUIPMENT:	328D CAT
LOGGED BY:	AR	DATE:	9/5/2024

TEST PIT NO. 1

0'

Fine to Medium Brown Sand, Some Urban Fill (glass, trash) (wet)

Test Pit Terminated at ±2' bgs

5'

10'

15'

0'

5'

10'

15'

TOTAL DEPTH: 2'

WATER AT: Above concete slab

SIZE OF TEST PIT: ±3' x 3'

NOTES: Test pit excavated beneath concrete floor in former basement

TEST PIT LOG

C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture,
Landscape Architecture & Geology, D.P.C.
50 Century Hill Drive
Latham, NY 12110
(518) 786-7400 • FAX (581) 786-7299

PROJECT NAME:	Schenectady 40 Anchor	EXCAVATOR:	Jackson Demolition
PROJECT NUMBER:	23.3588	EQUIPMENT:	328D CAT
LOGGED BY:	AR	DATE:	9/5/2024

TEST PIT NO. 2

0'

Fine to Medium Brown Sand, Some Urban Fill (glass, trash) (wet)

Test Pit Terminated at ±2' bgs

5'

10'

15'

0'

5'

10'

15'

TOTAL DEPTH: 2'

WATER AT: Above concrete slab

SIZE OF TEST PIT: ±3' x 3'

NOTES: Test pit excavated beneath concrete floor in former basement

TEST PIT LOG

C.T. MALE ASSOCIATES
Engineering, Surveying, Architecture,
Landscape Architecture & Geology, D.P.C.
50 Century Hill Drive
Latham, NY 12110
(518) 786-7400 • FAX (581) 786-7299

PROJECT NAME:	Schenectady 40 Anchor	EXCAVATOR:	Jackson Demolition
PROJECT NUMBER:	23.3588	EQUIPMENT:	328D CAT
LOGGED BY:	AR	DATE:	9/5/2024

TEST PIT NO. 3

0'

Fine to Medium Dark Brown SAND (wet)

Test Pit Terminated at ±2' bgs

5'

10'

15'

0'

5'

10'

15'

TOTAL DEPTH: 2'

WATER AT: Above concrete slab

SIZE OF TEST PIT: ±3' x 3'

NOTES: Strong petroleum odor and dark staining in soils

Test pit excavated beneath concrete floor in former basement

APPENDIX D

Organic Vapor Headspace Analysis Logs

ORGANIC VAPOR HEADSPACE ANALYSIS LOG

PROJECT:	Schenectady 40 Anchor Site	**PROJECT #** 23.3588	PAGE 1 OF 2
LOCATION:	742, 754 & 758 State Street Schenectady		**DATE COLLECTED:** 5/20/24
COUNTY, STATE:	Schenectady County, NY		
INSTRUMENT USED:	MiniRae 3000 **LAMP** 10.6 **eV**		**DATE ANALYZED:** 5/20/24
DATE INSTRUMENT CALIBRATED:	5/20/2024 **BY:** AR		
TEMPERATURE OF SOIL:	ambient		**ANALYST:** AR

EXPLORATION NUMBER	SAMPLE NUMBER	DEPTH (FT.)***	SAMPLE TYPE	SAMPLE READING (PPM)**	BACKGROUND READING (PPM)**	REMARKS
GP-7	1	0-2.5	Soil - Headspace	1.8	0.0	NONS
GP-7	2	2.5-5	Soil - Headspace	0.8	0.0	NONS
GP-7	3	5-7.5	Soil - Headspace	0.8	0.0	NONS
GP-7	4	7.5-10	Soil - Headspace	0.6	0.0	NONS
GP-8	1	0-2.5	Soil - Headspace	1.0	0.0	NONS
GP-8	2	2.5-5	Soil - Headspace	1.2	0.0	NONS
GP-8	3	5-7.5	Soil - Headspace	1.6	0.0	NONS
GP-8	4	7.5-10	Soil - Headspace	1.0	0.0	NONS
GP-9	1	0-2.5	Soil - Headspace	0.5	0.0	NONS
GP-9	2	2.5-5	Soil - Headspace	0.7	0.0	NONS
GP-9	3	5-7.5	Soil - Headspace	0.6	0.0	NONS
GP-9	4	7.5-10	Soil - Headspace	0.3	0.0	NONS
GP-10	1	0-2.5	Soil - Headspace	0.1	0.0	NONS
GP-10	2	2.5-5	Soil - Headspace	0.2	0.0	NONS
GP-10	3	5-7.5	Soil - Headspace	0.0	0.0	NONS
GP-10	4	7.5-10	Soil - Headspace	0.3	0.0	NONS
GP-11	1	0-2.5	Soil - Headspace	0.6	0.0	NONS
GP-11	2	2.5-5	Soil - Headspace	2.7	0.0	NONS
GP-11	3	5-7.5	Soil - Headspace	2.7	0.0	NONS
GP-11	4	7.5-10	Soil - Headspace	0.7	0.0	NONS

*Instrument was calibrated in accordance with manufacturer's recommended procedure using a calibration gas supplied by the manufacturer.

**PPM represents concentration of detectable volatile and gaseous compounds in parts per million of air.

*** represents feet below the ground surface

NONS = No Odors/No Staining

ORGANIC VAPOR HEADSPACE ANALYSIS LOG

PROJECT:	Schenectady 40 Anchor Site	**PROJECT #** 23.3588	PAGE 2 OF 2
LOCATION:	742, 754 & 758 State Street Schenectady		**DATE COLLECTED:** 5/20/24
COUNTY, STATE:	Schenectady County, NY		
INSTRUMENT USED:	MiniRae 3000 **LAMP** 10.6 **eV**		**DATE ANALYZED:** 5/20/24
DATE INSTRUMENT CALIBRATED:	5/20/2024 **BY:** AR		
TEMPERATURE OF SOIL:	ambient		**ANALYST:** AR

EXPLORATION NUMBER	SAMPLE NUMBER	DEPTH (FT.)***	SAMPLE TYPE	SAMPLE READING (PPM)**	BACKGROUND READING (PPM)**	REMARKS
GP-12	1	0-2.5	Soil - Headspace	0.5	0.0	NONS
GP-12	2	2.5-5	Soil - Headspace	0.6	0.0	NONS
GP-12	3	5-7.5	Soil - Headspace	1.1	0.0	NONS
GP-12	4	7.5-10	Soil - Headspace	0.8	0.0	NONS
GP-13	1	0-2.5	Soil - Headspace	1.3	0.0	NONS
GP-13	2	2.5-5	Soil - Headspace	9.9	0.0	NONS
GP-13	3	5-7.5	Soil - Headspace	5.5	0.0	NONS
GP-13	4	7.5-10	Soil - Headspace	21.4	0.0	NONS
GP-14	1	0-2.5	Soil - Headspace	11.7	0.0	NONS
GP-14	2	2.5-5	Soil - Headspace	0.4	0.0	NONS
GP-14	3	5-6	Soil - Headspace	1.1	0.0	NONS
GP-15	1	0-2.5	Soil - Headspace	0.9	0.0	NONS
GP-15	2	2.5-5	Soil - Headspace	0.4	0.0	NONS
GP-15	3	5-7	Soil - Headspace	0.1	0.0	NONS
GP-15	4	7-9	Soil - Headspace	0.0	0.0	NONS
GP-16	1	0-2.5	Soil - Headspace	0.0	0.0	NONS
GP-16	2	2.5-5	Soil - Headspace	0.0	0.0	NONS

*Instrument was calibrated in accordance with manufacturer's recommended procedure using a calibration gas supplied by the manufacturer.

**PPM represents concentration of detectable volatile and gaseous compounds in parts per million of air.

*** represents feet below the ground surface

NONS = No Odors/No Staining

ORGANIC VAPOR HEADSPACE ANALYSIS LOG

PROJECT:	Schenectady 40 Anchor Site	**PROJECT #** 23.3588	PAGE 1 OF 1
LOCATION:	742, 754 & 758 State Street Schenectady		**DATE COLLECTED:** 9/15/24
COUNTY, STATE:	Schenectady County, NY		
INSTRUMENT USED:	MiniRae 3000 **LAMP** 10.6 **eV**		**DATE ANALYZED:** 9/15/24
DATE INSTRUMENT CALIBRATED:	9/15/2024 **BY:** AR		
TEMPERATURE OF SOIL:	ambient		**ANALYST:** AR

EXPLORATION NUMBER	SAMPLE NUMBER	DEPTH (FT.)***	SAMPLE TYPE	SAMPLE READING (PPM)**	BACKGROUND READING (PPM)**	REMARKS
TP-1	1	0-2	Soil - Headspace	8.7	0.0	NONS
TP-2	2	0-2	Soil - Headspace	14.3	0.0	NONS
TP-3	3	0-2	Soil - Headspace	195.5	0.0	Petrochemical Odor/Staining

*Instrument was calibrated in accordance with manufacturer's recommended procedure using a calibration gas supplied by the manufacturer.

**PPM represents concentration of detectable volatile and gaseous compounds in parts per million of air.

*** represents feet below the ground surface

NONS = No Odors/No Staining

APPENDIX E

Laboratory Analysis Report for Soil from Soil Borings

ANALYTICAL REPORT

Lab Number:	L2427928
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12110
ATTN:	Aimee Smith
Phone:	(518) 786-7400
Project Name:	SCHENECTADY 40 ANCHOR SITE
Project Number:	23.3588
Report Date:	05/28/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

REPORT 4

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

Lab Number: L2427928
Report Date: 05/28/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2427928-01	GP-7_5-7.5	SOIL	SCHENECTADY, NY	05/20/24 12:50	05/20/24
L2427928-02	GP-8_5-7.5	SOIL	SCHENECTADY, NY	05/20/24 13:00	05/20/24
L2427928-03	GP-9_5-7.5	SOIL	SCHENECTADY, NY	05/20/24 13:05	05/20/24
L2427928-04	GP-10_2.5-5	SOIL	SCHENECTADY, NY	05/20/24 13:10	05/20/24
L2427928-05	GP-11_2.5-5	SOIL	SCHENECTADY, NY	05/20/24 13:15	05/20/24
L2427928-06	GP-12_5-7.5	SOIL	SCHENECTADY, NY	05/20/24 13:20	05/20/24
L2427928-07	GP-13_5-7.5	SOIL	SCHENECTADY, NY	05/20/24 13:25	05/20/24
L2427928-08	GP-14_5-6	SOIL	SCHENECTADY, NY	05/20/24 13:30	05/20/24
L2427928-09	GP-15_5-7	SOIL	SCHENECTADY, NY	05/20/24 13:35	05/20/24
L2427928-10	GP-16_2.5-5	SOIL	SCHENECTADY, NY	05/20/24 13:40	05/20/24

Project Name:	SCHENECTADY 40 ANCHOR SITE	**Lab Number:**	L2427928
Project Number:	23.3588	**Report Date:**	05/28/24

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: SCHENECTADY 40 ANCHOR SITE **Lab Number:** L2427928
Project Number: 23.3588 **Report Date:** 05/28/24

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

L2427928-01, -02, -04 through -10: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

L2427928-03: The sample has elevated detection limits for all elements due to the dilution required by the sample matrix.

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

Title: Technical Director/Representative Date: 05/28/24

ORGANICS

SEMIVOLATILES

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Num** REPORT 4 3

Project Number: 23.3588 **Report Date:** 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-01
Client ID: GP-7_5-7.5
Sample Location: SCHENECTADY, NY

Date Collected: 05/20/24 12:50
Date Received: 05/20/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/24/24 10:45
Analyst: EK
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 05/22/24 14:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Fluoranthene	180		ug/kg	100	20.	1
Benzo(a)anthracene	38	J	ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	140	42.	1
Benzo(b)fluoranthene	53	J	ug/kg	100	29.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	61	J	ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	27	J	ug/kg	140	20.	1
Fluorene	ND		ug/kg	170	17.	1
Phenanthrene	110		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	170		ug/kg	100	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	77		30-120
4-Terphenyl-d14	73		18-120

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Num** 3

Project Number: 23.3588 **Report Date:** 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-02
Client ID: GP-8_5-7.5
Sample Location: SCHENECTADY, NY

Date Collected: 05/20/24 13:00
Date Received: 05/20/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/24/24 08:26
Analyst: EK
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/22/24 14:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
Fluoranthene	330		ug/kg	110	22.	1
Benzo(a)anthracene	76	J	ug/kg	110	21.	1
Benzo(a)pyrene	100	J	ug/kg	150	46.	1
Benzo(b)fluoranthene	160		ug/kg	110	32.	1
Benzo(k)fluoranthene	60	J	ug/kg	110	30.	1
Chrysene	140		ug/kg	110	20.	1
Acenaphthylene	76	J	ug/kg	150	29.	1
Anthracene	45	J	ug/kg	110	37.	1
Benzo(ghi)perylene	85	J	ug/kg	150	22.	1
Fluorene	24	J	ug/kg	190	18.	1
Phenanthrene	230		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	23	J	ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	79	J	ug/kg	150	26.	1
Pyrene	260		ug/kg	110	19.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	81		30-120
4-Terphenyl-d14	78		18-120

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Num** 3

Project Number: 23.3588 **Report Date:** 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-03
Client ID: GP-9_5-7.5
Sample Location: SCHENECTADY, NY

Date Collected: 05/20/24 13:05
Date Received: 05/20/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/24/24 11:31
Analyst: EK
Percent Solids: 89%

Extraction Method: EPA 3546
Extraction Date: 05/22/24 14:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	100	J	ug/kg	150	19.	1
Fluoranthene	1700		ug/kg	110	21.	1
Benzo(a)anthracene	830		ug/kg	110	21.	1
Benzo(a)pyrene	850		ug/kg	150	45.	1
Benzo(b)fluoranthene	1100		ug/kg	110	31.	1
Benzo(k)fluoranthene	370		ug/kg	110	29.	1
Chrysene	890		ug/kg	110	19.	1
Acenaphthylene	78	J	ug/kg	150	28.	1
Anthracene	210		ug/kg	110	36.	1
Benzo(ghi)perylene	620		ug/kg	150	22.	1
Fluorene	70	J	ug/kg	180	18.	1
Phenanthrene	870		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	130		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	570		ug/kg	150	26.	1
Pyrene	1500		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	73		30-120
4-Terphenyl-d14	60		18-120

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Num** 3

Project Number: 23.3588 **Report Date:** 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-04
Client ID: GP-10_2.5-5
Sample Location: SCHENECTADY, NY

Date Collected: 05/20/24 13:10
Date Received: 05/20/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/24/24 08:03
Analyst: EK
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 05/22/24 14:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	19	J	ug/kg	140	19.	1
Fluoranthene	590		ug/kg	110	21.	1
Benzo(a)anthracene	250		ug/kg	110	20.	1
Benzo(a)pyrene	240		ug/kg	140	44.	1
Benzo(b)fluoranthene	290		ug/kg	110	30.	1
Benzo(k)fluoranthene	96	J	ug/kg	110	29.	1
Chrysene	250		ug/kg	110	19.	1
Acenaphthylene	35	J	ug/kg	140	28.	1
Anthracene	75	J	ug/kg	110	35.	1
Benzo(ghi)perylene	160		ug/kg	140	21.	1
Fluorene	28	J	ug/kg	180	18.	1
Phenanthrene	360		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	34	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	140		ug/kg	140	25.	1
Pyrene	530		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	74		30-120
4-Terphenyl-d14	68		18-120

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Num** 3

Project Number: 23.3588 **Report Date:** 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-05
Client ID: GP-11_2.5-5
Sample Location: SCHENECTADY, NY

Date Collected: 05/20/24 13:15
Date Received: 05/20/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/24/24 11:08
Analyst: EK
Percent Solids: 92%

Extraction Method: EPA 3546
Extraction Date: 05/22/24 14:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	100	J	ug/kg	140	18.	1
Fluoranthene	1300		ug/kg	100	20.	1
Benzo(a)anthracene	690		ug/kg	100	20.	1
Benzo(a)pyrene	680		ug/kg	140	43.	1
Benzo(b)fluoranthene	810		ug/kg	100	30.	1
Benzo(k)fluoranthene	230		ug/kg	100	28.	1
Chrysene	750		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	260		ug/kg	100	34.	1
Benzo(ghi)perylene	480		ug/kg	140	21.	1
Fluorene	75	J	ug/kg	180	17.	1
Phenanthrene	780		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	97	J	ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	400		ug/kg	140	24.	1
Pyrene	1400		ug/kg	100	17.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	65		30-120
4-Terphenyl-d14	59		18-120

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Num** 3

Project Number: 23.3588 **Report Date:** 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-06
Client ID: GP-12_5-7.5
Sample Location: SCHENECTADY, NY

Date Collected: 05/20/24 13:20
Date Received: 05/20/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/24/24 09:58
Analyst: EK
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 05/22/24 14:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
Fluoranthene	93	J	ug/kg	110	21.	1
Benzo(a)anthracene	31	J	ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	45.	1
Benzo(b)fluoranthene	42	J	ug/kg	110	31.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	53	J	ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	24	J	ug/kg	150	22.	1
Fluorene	ND		ug/kg	180	18.	1
Phenanthrene	57	J	ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	93	J	ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	74		30-120
4-Terphenyl-d14	65		18-120

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Num** 3

Project Number: 23.3588 **Report Date:** 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-07
Client ID: GP-13_5-7.5
Sample Location: SCHENECTADY, NY

Date Collected: 05/20/24 13:25
Date Received: 05/20/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/24/24 07:16
Analyst: EK
Percent Solids: 81%

Extraction Method: EPA 3546
Extraction Date: 05/22/24 14:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	21.	1
Fluoranthene	ND		ug/kg	120	23.	1
Benzo(a)anthracene	ND		ug/kg	120	23.	1
Benzo(a)pyrene	ND		ug/kg	160	50.	1
Benzo(b)fluoranthene	ND		ug/kg	120	34.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	ND		ug/kg	120	21.	1
Acenaphthylene	ND		ug/kg	160	31.	1
Anthracene	ND		ug/kg	120	40.	1
Benzo(ghi)perylene	ND		ug/kg	160	24.	1
Fluorene	ND		ug/kg	200	20.	1
Phenanthrene	ND		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	61		30-120
4-Terphenyl-d14	49		18-120

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Num** 3

Project Number: 23.3588 **Report Date:** 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-08 D2
Client ID: GP-14_5-6
Sample Location: SCHENECTADY, NY

Date Collected: 05/20/24 13:30
Date Received: 05/20/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/26/24 22:23
Analyst: CMM
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 05/22/24 14:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	170000		ug/kg	5900	1100	50
Phenanthrene	140000		ug/kg	5900	1200	50

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Num** 3

Project Number: 23.3588 **Report Date:** 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-08 D
Client ID: GP-14_5-6
Sample Location: SCHENECTADY, NY

Date Collected: 05/20/24 13:30
Date Received: 05/20/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/24/24 10:22
Analyst: CMM
Percent Solids: 83%

Extraction Method: EPA 3546
Extraction Date: 05/22/24 14:09

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	11000		ug/kg	1600	200	10
Fluoranthene	90000	E	ug/kg	1200	220	10
Benzo(a)anthracene	47000		ug/kg	1200	220	10
Benzo(a)pyrene	44000		ug/kg	1600	480	10
Benzo(b)fluoranthene	54000		ug/kg	1200	330	10
Benzo(k)fluoranthene	18000		ug/kg	1200	310	10
Chrysene	39000		ug/kg	1200	200	10
Acenaphthylene	11000		ug/kg	1600	300	10
Anthracene	23000		ug/kg	1200	380	10
Benzo(ghi)perylene	26000		ug/kg	1600	230	10
Fluorene	17000		ug/kg	2000	190	10
Phenanthrene	80000	E	ug/kg	1200	240	10
Dibenzo(a,h)anthracene	6600		ug/kg	1200	230	10
Indeno(1,2,3-cd)pyrene	27000		ug/kg	1600	270	10
Pyrene	71000		ug/kg	1200	200	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	47		23-120
2-Fluorobiphenyl	48		30-120
4-Terphenyl-d14	55		18-120

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Num** 3

Project Number: 23.3588 **Report Date:** 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-09
Client ID: GP-15_5-7
Sample Location: SCHENECTADY, NY

Date Collected: 05/20/24 13:35
Date Received: 05/20/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/24/24 07:40
Analyst: EK
Percent Solids: 91%

Extraction Method: EPA 3546
Extraction Date: 05/22/24 14:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	26	J	ug/kg	140	19.	1
Fluoranthene	400		ug/kg	110	21.	1
Benzo(a)anthracene	180		ug/kg	110	20.	1
Benzo(a)pyrene	180		ug/kg	140	44.	1
Benzo(b)fluoranthene	230		ug/kg	110	30.	1
Benzo(k)fluoranthene	74	J	ug/kg	110	29.	1
Chrysene	180		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	140	28.	1
Anthracene	74	J	ug/kg	110	35.	1
Benzo(ghi)perylene	110	J	ug/kg	140	21.	1
Fluorene	27	J	ug/kg	180	18.	1
Phenanthrene	230		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	28	J	ug/kg	110	21.	1
Indeno(1,2,3-cd)pyrene	100	J	ug/kg	140	25.	1
Pyrene	330		ug/kg	110	18.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	80		23-120
2-Fluorobiphenyl	77		30-120
4-Terphenyl-d14	72		18-120

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Num** 3

Project Number: 23.3588 **Report Date:** 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-10
Client ID: GP-16_2.5-5
Sample Location: SCHENECTADY, NY

Date Collected: 05/20/24 13:40
Date Received: 05/20/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 05/24/24 06:53
Analyst: EK
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 05/22/24 14:54

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	170	22.	1
Fluoranthene	140		ug/kg	120	24.	1
Benzo(a)anthracene	75	J	ug/kg	120	24.	1
Benzo(a)pyrene	73	J	ug/kg	170	51.	1
Benzo(b)fluoranthene	91	J	ug/kg	120	35.	1
Benzo(k)fluoranthene	ND		ug/kg	120	33.	1
Chrysene	68	J	ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	ND		ug/kg	120	41.	1
Benzo(ghi)perylene	44	J	ug/kg	170	24.	1
Fluorene	ND		ug/kg	210	20.	1
Phenanthrene	27	J	ug/kg	120	25.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	42	J	ug/kg	170	29.	1
Pyrene	120		ug/kg	120	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	73		30-120
4-Terphenyl-d14	65		18-120

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588
Lab Number: L2427928
Report Date: 05/28/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 05/23/24 23:27
Analyst: LJG

Extraction Method: EPA 3546
Extraction Date: 05/22/24 14:09

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-10 Batch: WG1924542-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	98	19.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	27.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	78		23-120
2-Fluorobiphenyl	94		30-120
2,4,6-Tribromophenol	125		10-136
4-Terphenyl-d14	100		18-120

REPORT 4

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE

Project Number: 23.3588

Lab Number: L2427928

Report Date: 05/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-10 Batch: WG1924542-2 WG1924542-3								
Acenaphthene	85		82		31-137	4		50
Fluoranthene	89		86		40-140	3		50
Benzo(a)anthracene	84		82		40-140	2		50
Benzo(a)pyrene	91		92		40-140	1		50
Benzo(b)fluoranthene	92		90		40-140	2		50
Benzo(k)fluoranthene	87		86		40-140	1		50
Chrysene	85		82		40-140	4		50
Acenaphthylene	95		87		40-140	9		50
Anthracene	86		83		40-140	4		50
Benzo(ghi)perylene	87		84		40-140	4		50
Fluorene	88		84		40-140	5		50
Phenanthrene	83		80		40-140	4		50
Dibenzo(a,h)anthracene	87		84		40-140	4		50
Indeno(1,2,3-cd)pyrene	90		86		40-140	5		50
Pyrene	87		85		35-142	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	76		67		25-120
Phenol-d6	76		68		10-120
Nitrobenzene-d5	78		69		23-120
2-Fluorobiphenyl	88		80		30-120
2,4,6-Tribromophenol	123		118		10-136
4-Terphenyl-d14	90		85		18-120

METALS

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** L2427928

Project Number: 23.3588 **Report Date:** 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-01 Date Collected: 05/20/24 12:50

Client ID: GP-7_5-7.5 Date Received: 05/20/24

Sample Location: SCHENECTADY, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6270		mg/kg	8.20	2.21	2	05/24/24 09:00	05/24/24 15:33	EPA 3050B	1,6010D	JMF
Antimony, Total	ND		mg/kg	4.10	0.312	2	05/24/24 09:00	05/24/24 15:33	EPA 3050B	1,6010D	JMF
Arsenic, Total	3.33		mg/kg	0.820	0.170	2	05/24/24 09:00	05/24/24 15:33	EPA 3050B	1,6010D	JMF
Barium, Total	24.5		mg/kg	0.820	0.143	2	05/24/24 09:00	05/24/24 15:33	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.273	J	mg/kg	0.410	0.027	2	05/24/24 09:00	05/24/24 15:33	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.190	J	mg/kg	0.820	0.080	2	05/24/24 09:00	05/24/24 15:33	EPA 3050B	1,6010D	JMF
Calcium, Total	37000		mg/kg	8.20	2.87	2	05/24/24 09:00	05/24/24 15:33	EPA 3050B	1,6010D	JMF
Chromium, Total	9.85		mg/kg	0.820	0.079	2	05/24/24 09:00	05/24/24 15:33	EPA 3050B	1,6010D	JMF
Cobalt, Total	4.48		mg/kg	1.64	0.136	2	05/24/24 09:00	05/24/24 15:33	EPA 3050B	1,6010D	JMF
Copper, Total	13.9		mg/kg	0.820	0.212	2	05/24/24 09:00	05/24/24 15:33	EPA 3050B	1,6010D	JMF
Iron, Total	15300		mg/kg	4.10	0.741	2	05/24/24 09:00	05/24/24 15:33	EPA 3050B	1,6010D	JMF
Lead, Total	21.6		mg/kg	4.10	0.220	2	05/24/24 09:00	05/24/24 15:33	EPA 3050B	1,6010D	JMF
Magnesium, Total	6540		mg/kg	8.20	1.26	2	05/24/24 09:00	05/24/24 15:33	EPA 3050B	1,6010D	JMF
Manganese, Total	376		mg/kg	0.820	0.130	2	05/24/24 09:00	05/24/24 15:33	EPA 3050B	1,6010D	JMF
Mercury, Total	0.138		mg/kg	0.068	0.044	1	05/24/24 10:10	05/24/24 12:07	EPA 7471B	1,7471B	MJR
Nickel, Total	11.3		mg/kg	2.05	0.198	2	05/24/24 09:00	05/24/24 15:33	EPA 3050B	1,6010D	JMF
Potassium, Total	514		mg/kg	205	11.8	2	05/24/24 09:00	05/24/24 15:33	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	1.64	0.212	2	05/24/24 09:00	05/24/24 15:33	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.410	0.232	2	05/24/24 09:00	05/24/24 15:33	EPA 3050B	1,6010D	JMF
Sodium, Total	303		mg/kg	164	2.58	2	05/24/24 09:00	05/24/24 15:33	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.64	0.258	2	05/24/24 09:00	05/24/24 15:33	EPA 3050B	1,6010D	JMF
Vanadium, Total	14.5		mg/kg	0.820	0.166	2	05/24/24 09:00	05/24/24 15:33	EPA 3050B	1,6010D	JMF
Zinc, Total	49.8		mg/kg	4.10	0.240	2	05/24/24 09:00	05/24/24 15:33	EPA 3050B	1,6010D	JMF

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** L2427928

Project Number: 23.3588 **Report Date:** 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-02 Date Collected: 05/20/24 13:00

Client ID: GP-8_5-7.5 Date Received: 05/20/24

Sample Location: SCHENECTADY, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3340		mg/kg	17.5	4.72	4	05/24/24 09:00	05/24/24 17:09	EPA 3050B	1,6010D	JMF
Antimony, Total	ND		mg/kg	8.73	0.664	4	05/24/24 09:00	05/24/24 17:09	EPA 3050B	1,6010D	JMF
Arsenic, Total	3.10		mg/kg	1.75	0.363	4	05/24/24 09:00	05/24/24 17:09	EPA 3050B	1,6010D	JMF
Barium, Total	52.8		mg/kg	1.75	0.304	4	05/24/24 09:00	05/24/24 17:09	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.198	J	mg/kg	0.873	0.058	4	05/24/24 09:00	05/24/24 17:09	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.195	J	mg/kg	1.75	0.171	4	05/24/24 09:00	05/24/24 17:09	EPA 3050B	1,6010D	JMF
Calcium, Total	103000		mg/kg	17.5	6.11	4	05/24/24 09:00	05/24/24 17:09	EPA 3050B	1,6010D	JMF
Chromium, Total	5.52		mg/kg	1.75	0.168	4	05/24/24 09:00	05/24/24 17:09	EPA 3050B	1,6010D	JMF
Cobalt, Total	3.40	J	mg/kg	3.49	0.290	4	05/24/24 09:00	05/24/24 17:09	EPA 3050B	1,6010D	JMF
Copper, Total	13.5		mg/kg	1.75	0.451	4	05/24/24 09:00	05/24/24 17:09	EPA 3050B	1,6010D	JMF
Iron, Total	7940		mg/kg	8.73	1.58	4	05/24/24 09:00	05/24/24 17:09	EPA 3050B	1,6010D	JMF
Lead, Total	104		mg/kg	8.73	0.468	4	05/24/24 09:00	05/24/24 17:09	EPA 3050B	1,6010D	JMF
Magnesium, Total	6240		mg/kg	17.5	2.69	4	05/24/24 09:00	05/24/24 17:09	EPA 3050B	1,6010D	JMF
Manganese, Total	242		mg/kg	1.75	0.278	4	05/24/24 09:00	05/24/24 17:09	EPA 3050B	1,6010D	JMF
Mercury, Total	0.172		mg/kg	0.073	0.047	1	05/24/24 10:10	05/24/24 12:25	EPA 7471B	1,7471B	MJR
Nickel, Total	7.42		mg/kg	4.37	0.423	4	05/24/24 09:00	05/24/24 17:09	EPA 3050B	1,6010D	JMF
Potassium, Total	294	J	mg/kg	437	25.2	4	05/24/24 09:00	05/24/24 17:09	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	3.49	0.451	4	05/24/24 09:00	05/24/24 17:09	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.873	0.494	4	05/24/24 09:00	05/24/24 17:09	EPA 3050B	1,6010D	JMF
Sodium, Total	87.3	J	mg/kg	349	5.50	4	05/24/24 09:00	05/24/24 17:09	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	3.49	0.550	4	05/24/24 09:00	05/24/24 17:09	EPA 3050B	1,6010D	JMF
Vanadium, Total	9.19		mg/kg	1.75	0.355	4	05/24/24 09:00	05/24/24 17:09	EPA 3050B	1,6010D	JMF
Zinc, Total	79.9		mg/kg	8.73	0.512	4	05/24/24 09:00	05/24/24 17:09	EPA 3050B	1,6010D	JMF

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** L2427928

Project Number: 23.3588 **Report Date:** 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-03 Date Collected: 05/20/24 13:05

Client ID: GP-9_5-7.5 Date Received: 05/20/24

Sample Location: SCHENECTADY, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	5650		mg/kg	8.81	2.38	2	05/24/24 09:00	05/24/24 15:41	EPA 3050B	1,6010D	JMF
Antimony, Total	1.60	J	mg/kg	4.40	0.335	2	05/24/24 09:00	05/24/24 15:41	EPA 3050B	1,6010D	JMF
Arsenic, Total	8.30		mg/kg	0.881	0.183	2	05/24/24 09:00	05/24/24 15:41	EPA 3050B	1,6010D	JMF
Barium, Total	114		mg/kg	0.881	0.153	2	05/24/24 09:00	05/24/24 15:41	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.334	J	mg/kg	0.440	0.029	2	05/24/24 09:00	05/24/24 15:41	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.899		mg/kg	0.881	0.086	2	05/24/24 09:00	05/24/24 15:41	EPA 3050B	1,6010D	JMF
Calcium, Total	26800		mg/kg	8.81	3.08	2	05/24/24 09:00	05/24/24 15:41	EPA 3050B	1,6010D	JMF
Chromium, Total	36.9		mg/kg	0.881	0.085	2	05/24/24 09:00	05/24/24 15:41	EPA 3050B	1,6010D	JMF
Cobalt, Total	4.83		mg/kg	1.76	0.146	2	05/24/24 09:00	05/24/24 15:41	EPA 3050B	1,6010D	JMF
Copper, Total	32.3		mg/kg	0.881	0.227	2	05/24/24 09:00	05/24/24 15:41	EPA 3050B	1,6010D	JMF
Iron, Total	17400		mg/kg	4.40	0.795	2	05/24/24 09:00	05/24/24 15:41	EPA 3050B	1,6010D	JMF
Lead, Total	1130		mg/kg	4.40	0.236	2	05/24/24 09:00	05/24/24 15:41	EPA 3050B	1,6010D	JMF
Magnesium, Total	6440		mg/kg	8.81	1.36	2	05/24/24 09:00	05/24/24 15:41	EPA 3050B	1,6010D	JMF
Manganese, Total	297		mg/kg	0.881	0.140	2	05/24/24 09:00	05/24/24 15:41	EPA 3050B	1,6010D	JMF
Mercury, Total	30.5		mg/kg	1.42	0.924	20	05/24/24 10:10	05/24/24 13:42	EPA 7471B	1,7471B	MJR
Nickel, Total	11.6		mg/kg	2.20	0.213	2	05/24/24 09:00	05/24/24 15:41	EPA 3050B	1,6010D	JMF
Potassium, Total	592		mg/kg	220	12.7	2	05/24/24 09:00	05/24/24 15:41	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	1.76	0.227	2	05/24/24 09:00	05/24/24 15:41	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.440	0.249	2	05/24/24 09:00	05/24/24 15:41	EPA 3050B	1,6010D	JMF
Sodium, Total	294		mg/kg	176	2.77	2	05/24/24 09:00	05/24/24 15:41	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.76	0.277	2	05/24/24 09:00	05/24/24 15:41	EPA 3050B	1,6010D	JMF
Vanadium, Total	17.1		mg/kg	0.881	0.179	2	05/24/24 09:00	05/24/24 15:41	EPA 3050B	1,6010D	JMF
Zinc, Total	575		mg/kg	4.40	0.258	2	05/24/24 09:00	05/24/24 15:41	EPA 3050B	1,6010D	JMF

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** L2427928

Project Number: 23.3588 **Report Date:** 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-04 Date Collected: 05/20/24 13:10

Client ID: GP-10_2.5-5 Date Received: 05/20/24

Sample Location: SCHENECTADY, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4050		mg/kg	8.47	2.29	2	05/24/24 09:00	05/24/24 15:45	EPA 3050B	1,6010D	JMF
Antimony, Total	0.805	J	mg/kg	4.24	0.322	2	05/24/24 09:00	05/24/24 15:45	EPA 3050B	1,6010D	JMF
Arsenic, Total	4.41		mg/kg	0.847	0.176	2	05/24/24 09:00	05/24/24 15:45	EPA 3050B	1,6010D	JMF
Barium, Total	49.2		mg/kg	0.847	0.147	2	05/24/24 09:00	05/24/24 15:45	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.229	J	mg/kg	0.424	0.028	2	05/24/24 09:00	05/24/24 15:45	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.404	J	mg/kg	0.847	0.083	2	05/24/24 09:00	05/24/24 15:45	EPA 3050B	1,6010D	JMF
Calcium, Total	13200		mg/kg	8.47	2.97	2	05/24/24 09:00	05/24/24 15:45	EPA 3050B	1,6010D	JMF
Chromium, Total	11.3		mg/kg	0.847	0.081	2	05/24/24 09:00	05/24/24 15:45	EPA 3050B	1,6010D	JMF
Cobalt, Total	2.74		mg/kg	1.69	0.141	2	05/24/24 09:00	05/24/24 15:45	EPA 3050B	1,6010D	JMF
Copper, Total	43.1		mg/kg	0.847	0.219	2	05/24/24 09:00	05/24/24 15:45	EPA 3050B	1,6010D	JMF
Iron, Total	10100		mg/kg	4.24	0.765	2	05/24/24 09:00	05/24/24 15:45	EPA 3050B	1,6010D	JMF
Lead, Total	242		mg/kg	4.24	0.227	2	05/24/24 09:00	05/24/24 15:45	EPA 3050B	1,6010D	JMF
Magnesium, Total	3120		mg/kg	8.47	1.30	2	05/24/24 09:00	05/24/24 15:45	EPA 3050B	1,6010D	JMF
Manganese, Total	144		mg/kg	0.847	0.135	2	05/24/24 09:00	05/24/24 15:45	EPA 3050B	1,6010D	JMF
Mercury, Total	0.230		mg/kg	0.071	0.046	1	05/24/24 10:10	05/24/24 12:34	EPA 7471B	1,7471B	MJR
Nickel, Total	6.19		mg/kg	2.12	0.205	2	05/24/24 09:00	05/24/24 15:45	EPA 3050B	1,6010D	JMF
Potassium, Total	349		mg/kg	212	12.2	2	05/24/24 09:00	05/24/24 15:45	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	1.69	0.219	2	05/24/24 09:00	05/24/24 15:45	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.424	0.240	2	05/24/24 09:00	05/24/24 15:45	EPA 3050B	1,6010D	JMF
Sodium, Total	290		mg/kg	169	2.67	2	05/24/24 09:00	05/24/24 15:45	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.69	0.267	2	05/24/24 09:00	05/24/24 15:45	EPA 3050B	1,6010D	JMF
Vanadium, Total	12.3		mg/kg	0.847	0.172	2	05/24/24 09:00	05/24/24 15:45	EPA 3050B	1,6010D	JMF
Zinc, Total	241		mg/kg	4.24	0.248	2	05/24/24 09:00	05/24/24 15:45	EPA 3050B	1,6010D	JMF

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** L2427928

Project Number: 23.3588 **Report Date:** 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-05 Date Collected: 05/20/24 13:15

Client ID: GP-11_2.5-5 Date Received: 05/20/24

Sample Location: SCHENECTADY, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4770		mg/kg	8.39	2.26	2	05/24/24 09:00	05/24/24 15:49	EPA 3050B	1,6010D	JMF
Antimony, Total	0.624	J	mg/kg	4.19	0.319	2	05/24/24 09:00	05/24/24 15:49	EPA 3050B	1,6010D	JMF
Arsenic, Total	4.61		mg/kg	0.839	0.174	2	05/24/24 09:00	05/24/24 15:49	EPA 3050B	1,6010D	JMF
Barium, Total	40.5		mg/kg	0.839	0.146	2	05/24/24 09:00	05/24/24 15:49	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.302	J	mg/kg	0.419	0.028	2	05/24/24 09:00	05/24/24 15:49	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.250	J	mg/kg	0.839	0.082	2	05/24/24 09:00	05/24/24 15:49	EPA 3050B	1,6010D	JMF
Calcium, Total	31700		mg/kg	8.39	2.94	2	05/24/24 09:00	05/24/24 15:49	EPA 3050B	1,6010D	JMF
Chromium, Total	7.14		mg/kg	0.839	0.081	2	05/24/24 09:00	05/24/24 15:49	EPA 3050B	1,6010D	JMF
Cobalt, Total	3.70		mg/kg	1.68	0.139	2	05/24/24 09:00	05/24/24 15:49	EPA 3050B	1,6010D	JMF
Copper, Total	24.0		mg/kg	0.839	0.216	2	05/24/24 09:00	05/24/24 15:49	EPA 3050B	1,6010D	JMF
Iron, Total	12100		mg/kg	4.19	0.757	2	05/24/24 09:00	05/24/24 15:49	EPA 3050B	1,6010D	JMF
Lead, Total	215		mg/kg	4.19	0.225	2	05/24/24 09:00	05/24/24 15:49	EPA 3050B	1,6010D	JMF
Magnesium, Total	10700		mg/kg	8.39	1.29	2	05/24/24 09:00	05/24/24 15:49	EPA 3050B	1,6010D	JMF
Manganese, Total	232		mg/kg	0.839	0.133	2	05/24/24 09:00	05/24/24 15:49	EPA 3050B	1,6010D	JMF
Mercury, Total	0.423		mg/kg	0.070	0.045	1	05/24/24 10:10	05/24/24 12:38	EPA 7471B	1,7471B	MJR
Nickel, Total	8.71		mg/kg	2.10	0.203	2	05/24/24 09:00	05/24/24 15:49	EPA 3050B	1,6010D	JMF
Potassium, Total	412		mg/kg	210	12.1	2	05/24/24 09:00	05/24/24 15:49	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	1.68	0.216	2	05/24/24 09:00	05/24/24 15:49	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.419	0.237	2	05/24/24 09:00	05/24/24 15:49	EPA 3050B	1,6010D	JMF
Sodium, Total	103	J	mg/kg	168	2.64	2	05/24/24 09:00	05/24/24 15:49	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.68	0.264	2	05/24/24 09:00	05/24/24 15:49	EPA 3050B	1,6010D	JMF
Vanadium, Total	14.2		mg/kg	0.839	0.170	2	05/24/24 09:00	05/24/24 15:49	EPA 3050B	1,6010D	JMF
Zinc, Total	81.9		mg/kg	4.19	0.246	2	05/24/24 09:00	05/24/24 15:49	EPA 3050B	1,6010D	JMF

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** L2427928

Project Number: 23.3588 **Report Date:** 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-06 Date Collected: 05/20/24 13:20

Client ID: GP-12_5-7.5 Date Received: 05/20/24

Sample Location: SCHENECTADY, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3730		mg/kg	8.55	2.31	2	05/24/24 09:00	05/24/24 15:53	EPA 3050B	1,6010D	JMF
Antimony, Total	ND		mg/kg	4.28	0.325	2	05/24/24 09:00	05/24/24 15:53	EPA 3050B	1,6010D	JMF
Arsenic, Total	2.67		mg/kg	0.855	0.178	2	05/24/24 09:00	05/24/24 15:53	EPA 3050B	1,6010D	JMF
Barium, Total	13.6		mg/kg	0.855	0.149	2	05/24/24 09:00	05/24/24 15:53	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.222	J	mg/kg	0.428	0.028	2	05/24/24 09:00	05/24/24 15:53	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.129	J	mg/kg	0.855	0.084	2	05/24/24 09:00	05/24/24 15:53	EPA 3050B	1,6010D	JMF
Calcium, Total	2910		mg/kg	8.55	2.99	2	05/24/24 09:00	05/24/24 15:53	EPA 3050B	1,6010D	JMF
Chromium, Total	5.37		mg/kg	0.855	0.082	2	05/24/24 09:00	05/24/24 15:53	EPA 3050B	1,6010D	JMF
Cobalt, Total	3.15		mg/kg	1.71	0.142	2	05/24/24 09:00	05/24/24 15:53	EPA 3050B	1,6010D	JMF
Copper, Total	8.26		mg/kg	0.855	0.221	2	05/24/24 09:00	05/24/24 15:53	EPA 3050B	1,6010D	JMF
Iron, Total	10100		mg/kg	4.28	0.772	2	05/24/24 09:00	05/24/24 15:53	EPA 3050B	1,6010D	JMF
Lead, Total	8.71		mg/kg	4.28	0.229	2	05/24/24 09:00	05/24/24 15:53	EPA 3050B	1,6010D	JMF
Magnesium, Total	2240		mg/kg	8.55	1.32	2	05/24/24 09:00	05/24/24 15:53	EPA 3050B	1,6010D	JMF
Manganese, Total	206		mg/kg	0.855	0.136	2	05/24/24 09:00	05/24/24 15:53	EPA 3050B	1,6010D	JMF
Mercury, Total	0.060	J	mg/kg	0.072	0.047	1	05/24/24 10:10	05/24/24 12:41	EPA 7471B	1,7471B	MJR
Nickel, Total	6.26		mg/kg	2.14	0.207	2	05/24/24 09:00	05/24/24 15:53	EPA 3050B	1,6010D	JMF
Potassium, Total	250		mg/kg	214	12.3	2	05/24/24 09:00	05/24/24 15:53	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	1.71	0.221	2	05/24/24 09:00	05/24/24 15:53	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.428	0.242	2	05/24/24 09:00	05/24/24 15:53	EPA 3050B	1,6010D	JMF
Sodium, Total	51.6	J	mg/kg	171	2.69	2	05/24/24 09:00	05/24/24 15:53	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.71	0.269	2	05/24/24 09:00	05/24/24 15:53	EPA 3050B	1,6010D	JMF
Vanadium, Total	10.4		mg/kg	0.855	0.174	2	05/24/24 09:00	05/24/24 15:53	EPA 3050B	1,6010D	JMF
Zinc, Total	41.4		mg/kg	4.28	0.251	2	05/24/24 09:00	05/24/24 15:53	EPA 3050B	1,6010D	JMF

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** L2427928

Project Number: 23.3588 **Report Date:** 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-07 Date Collected: 05/20/24 13:25

Client ID: GP-13_5-7.5 Date Received: 05/20/24

Sample Location: SCHENECTADY, NY 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	5350		mg/kg	9.56	2.58	2	05/24/24 09:00	05/24/24 15:57	EPA 3050B	1,6010D	JMF
Antimony, Total	0.405	J	mg/kg	4.78	0.363	2	05/24/24 09:00	05/24/24 15:57	EPA 3050B	1,6010D	JMF
Arsenic, Total	7.55		mg/kg	0.956	0.199	2	05/24/24 09:00	05/24/24 15:57	EPA 3050B	1,6010D	JMF
Barium, Total	152		mg/kg	0.956	0.166	2	05/24/24 09:00	05/24/24 15:57	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.259	J	mg/kg	0.478	0.032	2	05/24/24 09:00	05/24/24 15:57	EPA 3050B	1,6010D	JMF
Cadmium, Total	1.08		mg/kg	0.956	0.094	2	05/24/24 09:00	05/24/24 15:57	EPA 3050B	1,6010D	JMF
Calcium, Total	79200		mg/kg	9.56	3.35	2	05/24/24 09:00	05/24/24 15:57	EPA 3050B	1,6010D	JMF
Chromium, Total	10.8		mg/kg	0.956	0.092	2	05/24/24 09:00	05/24/24 15:57	EPA 3050B	1,6010D	JMF
Cobalt, Total	3.41		mg/kg	1.91	0.159	2	05/24/24 09:00	05/24/24 15:57	EPA 3050B	1,6010D	JMF
Copper, Total	11.2		mg/kg	0.956	0.247	2	05/24/24 09:00	05/24/24 15:57	EPA 3050B	1,6010D	JMF
Iron, Total	11700		mg/kg	4.78	0.863	2	05/24/24 09:00	05/24/24 15:57	EPA 3050B	1,6010D	JMF
Lead, Total	334		mg/kg	4.78	0.256	2	05/24/24 09:00	05/24/24 15:57	EPA 3050B	1,6010D	JMF
Magnesium, Total	5310		mg/kg	9.56	1.47	2	05/24/24 09:00	05/24/24 15:57	EPA 3050B	1,6010D	JMF
Manganese, Total	216		mg/kg	0.956	0.152	2	05/24/24 09:00	05/24/24 15:57	EPA 3050B	1,6010D	JMF
Mercury, Total	0.265		mg/kg	0.078	0.051	1	05/24/24 10:10	05/24/24 12:44	EPA 7471B	1,7471B	MJR
Nickel, Total	6.95		mg/kg	2.39	0.231	2	05/24/24 09:00	05/24/24 15:57	EPA 3050B	1,6010D	JMF
Potassium, Total	635		mg/kg	239	13.8	2	05/24/24 09:00	05/24/24 15:57	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	1.91	0.247	2	05/24/24 09:00	05/24/24 15:57	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.478	0.270	2	05/24/24 09:00	05/24/24 15:57	EPA 3050B	1,6010D	JMF
Sodium, Total	475		mg/kg	191	3.01	2	05/24/24 09:00	05/24/24 15:57	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.91	0.301	2	05/24/24 09:00	05/24/24 15:57	EPA 3050B	1,6010D	JMF
Vanadium, Total	18.7		mg/kg	0.956	0.194	2	05/24/24 09:00	05/24/24 15:57	EPA 3050B	1,6010D	JMF
Zinc, Total	726		mg/kg	4.78	0.280	2	05/24/24 09:00	05/24/24 15:57	EPA 3050B	1,6010D	JMF

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** L2427928

Project Number: 23.3588 **Report Date:** 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-08 Date Collected: 05/20/24 13:30

Client ID: GP-14_5-6 Date Received: 05/20/24

Sample Location: SCHENECTADY, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6220		mg/kg	9.11	2.46	2	05/24/24 09:00	05/24/24 16:01	EPA 3050B	1,6010D	JMF
Antimony, Total	1.04	J	mg/kg	4.56	0.346	2	05/24/24 09:00	05/24/24 16:01	EPA 3050B	1,6010D	JMF
Arsenic, Total	4.33		mg/kg	0.911	0.190	2	05/24/24 09:00	05/24/24 16:01	EPA 3050B	1,6010D	JMF
Barium, Total	282		mg/kg	0.911	0.158	2	05/24/24 09:00	05/24/24 16:01	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.338	J	mg/kg	0.456	0.030	2	05/24/24 09:00	05/24/24 16:01	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.242	J	mg/kg	0.911	0.089	2	05/24/24 09:00	05/24/24 16:01	EPA 3050B	1,6010D	JMF
Calcium, Total	87000		mg/kg	9.11	3.19	2	05/24/24 09:00	05/24/24 16:01	EPA 3050B	1,6010D	JMF
Chromium, Total	12.6		mg/kg	0.911	0.088	2	05/24/24 09:00	05/24/24 16:01	EPA 3050B	1,6010D	JMF
Cobalt, Total	3.72		mg/kg	1.82	0.151	2	05/24/24 09:00	05/24/24 16:01	EPA 3050B	1,6010D	JMF
Copper, Total	16.9		mg/kg	0.911	0.235	2	05/24/24 09:00	05/24/24 16:01	EPA 3050B	1,6010D	JMF
Iron, Total	11400		mg/kg	4.56	0.823	2	05/24/24 09:00	05/24/24 16:01	EPA 3050B	1,6010D	JMF
Lead, Total	39.4		mg/kg	4.56	0.244	2	05/24/24 09:00	05/24/24 16:01	EPA 3050B	1,6010D	JMF
Magnesium, Total	12900		mg/kg	9.11	1.40	2	05/24/24 09:00	05/24/24 16:01	EPA 3050B	1,6010D	JMF
Manganese, Total	315		mg/kg	0.911	0.145	2	05/24/24 09:00	05/24/24 16:01	EPA 3050B	1,6010D	JMF
Mercury, Total	0.090		mg/kg	0.076	0.050	1	05/24/24 10:10	05/24/24 12:48	EPA 7471B	1,7471B	MJR
Nickel, Total	11.1		mg/kg	2.28	0.220	2	05/24/24 09:00	05/24/24 16:01	EPA 3050B	1,6010D	JMF
Potassium, Total	588		mg/kg	228	13.1	2	05/24/24 09:00	05/24/24 16:01	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	1.82	0.235	2	05/24/24 09:00	05/24/24 16:01	EPA 3050B	1,6010D	JMF
Silver, Total	0.273	J	mg/kg	0.456	0.258	2	05/24/24 09:00	05/24/24 16:01	EPA 3050B	1,6010D	JMF
Sodium, Total	429		mg/kg	182	2.87	2	05/24/24 09:00	05/24/24 16:01	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.82	0.287	2	05/24/24 09:00	05/24/24 16:01	EPA 3050B	1,6010D	JMF
Vanadium, Total	16.4		mg/kg	0.911	0.185	2	05/24/24 09:00	05/24/24 16:01	EPA 3050B	1,6010D	JMF
Zinc, Total	204		mg/kg	4.56	0.267	2	05/24/24 09:00	05/24/24 16:01	EPA 3050B	1,6010D	JMF

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** L2427928

Project Number: 23.3588 **Report Date:** 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-09 Date Collected: 05/20/24 13:35

Client ID: GP-15_5-7 Date Received: 05/20/24

Sample Location: SCHENECTADY, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	6830		mg/kg	8.64	2.33	2	05/24/24 09:00	05/24/24 16:04	EPA 3050B	1,6010D	JMF
Antimony, Total	ND		mg/kg	4.32	0.328	2	05/24/24 09:00	05/24/24 16:04	EPA 3050B	1,6010D	JMF
Arsenic, Total	4.05		mg/kg	0.864	0.180	2	05/24/24 09:00	05/24/24 16:04	EPA 3050B	1,6010D	JMF
Barium, Total	58.7		mg/kg	0.864	0.150	2	05/24/24 09:00	05/24/24 16:04	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.301	J	mg/kg	0.432	0.029	2	05/24/24 09:00	05/24/24 16:04	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.156	J	mg/kg	0.864	0.085	2	05/24/24 09:00	05/24/24 16:04	EPA 3050B	1,6010D	JMF
Calcium, Total	61200		mg/kg	8.64	3.02	2	05/24/24 09:00	05/24/24 16:04	EPA 3050B	1,6010D	JMF
Chromium, Total	12.9		mg/kg	0.864	0.083	2	05/24/24 09:00	05/24/24 16:04	EPA 3050B	1,6010D	JMF
Cobalt, Total	3.17		mg/kg	1.73	0.144	2	05/24/24 09:00	05/24/24 16:04	EPA 3050B	1,6010D	JMF
Copper, Total	11.9		mg/kg	0.864	0.223	2	05/24/24 09:00	05/24/24 16:04	EPA 3050B	1,6010D	JMF
Iron, Total	11000		mg/kg	4.32	0.781	2	05/24/24 09:00	05/24/24 16:04	EPA 3050B	1,6010D	JMF
Lead, Total	40.2		mg/kg	4.32	0.232	2	05/24/24 09:00	05/24/24 16:04	EPA 3050B	1,6010D	JMF
Magnesium, Total	8810		mg/kg	8.64	1.33	2	05/24/24 09:00	05/24/24 16:04	EPA 3050B	1,6010D	JMF
Manganese, Total	247		mg/kg	0.864	0.137	2	05/24/24 09:00	05/24/24 16:04	EPA 3050B	1,6010D	JMF
Mercury, Total	0.095		mg/kg	0.069	0.045	1	05/24/24 10:10	05/24/24 12:51	EPA 7471B	1,7471B	MJR
Nickel, Total	7.98		mg/kg	2.16	0.209	2	05/24/24 09:00	05/24/24 16:04	EPA 3050B	1,6010D	JMF
Potassium, Total	508		mg/kg	216	12.4	2	05/24/24 09:00	05/24/24 16:04	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	1.73	0.223	2	05/24/24 09:00	05/24/24 16:04	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.432	0.245	2	05/24/24 09:00	05/24/24 16:04	EPA 3050B	1,6010D	JMF
Sodium, Total	244		mg/kg	173	2.72	2	05/24/24 09:00	05/24/24 16:04	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.73	0.272	2	05/24/24 09:00	05/24/24 16:04	EPA 3050B	1,6010D	JMF
Vanadium, Total	12.9		mg/kg	0.864	0.175	2	05/24/24 09:00	05/24/24 16:04	EPA 3050B	1,6010D	JMF
Zinc, Total	56.4		mg/kg	4.32	0.253	2	05/24/24 09:00	05/24/24 16:04	EPA 3050B	1,6010D	JMF

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** L2427928

Project Number: 23.3588 **Report Date:** 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-10 Date Collected: 05/20/24 13:40

Client ID: GP-16_2.5-5 Date Received: 05/20/24

Sample Location: SCHENECTADY, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4060		mg/kg	9.63	2.60	2	05/24/24 09:00	05/24/24 16:08	EPA 3050B	1,6010D	JMF
Antimony, Total	0.570	J	mg/kg	4.82	0.366	2	05/24/24 09:00	05/24/24 16:08	EPA 3050B	1,6010D	JMF
Arsenic, Total	6.13		mg/kg	0.963	0.200	2	05/24/24 09:00	05/24/24 16:08	EPA 3050B	1,6010D	JMF
Barium, Total	228		mg/kg	0.963	0.168	2	05/24/24 09:00	05/24/24 16:08	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.262	J	mg/kg	0.482	0.032	2	05/24/24 09:00	05/24/24 16:08	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.816	J	mg/kg	0.963	0.094	2	05/24/24 09:00	05/24/24 16:08	EPA 3050B	1,6010D	JMF
Calcium, Total	56400		mg/kg	9.63	3.37	2	05/24/24 09:00	05/24/24 16:08	EPA 3050B	1,6010D	JMF
Chromium, Total	23.0		mg/kg	0.963	0.093	2	05/24/24 09:00	05/24/24 16:08	EPA 3050B	1,6010D	JMF
Cobalt, Total	3.47		mg/kg	1.93	0.160	2	05/24/24 09:00	05/24/24 16:08	EPA 3050B	1,6010D	JMF
Copper, Total	54.4		mg/kg	0.963	0.248	2	05/24/24 09:00	05/24/24 16:08	EPA 3050B	1,6010D	JMF
Iron, Total	11000		mg/kg	4.82	0.870	2	05/24/24 09:00	05/24/24 16:08	EPA 3050B	1,6010D	JMF
Lead, Total	689		mg/kg	4.82	0.258	2	05/24/24 09:00	05/24/24 16:08	EPA 3050B	1,6010D	JMF
Magnesium, Total	2350		mg/kg	9.63	1.48	2	05/24/24 09:00	05/24/24 16:08	EPA 3050B	1,6010D	JMF
Manganese, Total	216		mg/kg	0.963	0.153	2	05/24/24 09:00	05/24/24 16:08	EPA 3050B	1,6010D	JMF
Mercury, Total	0.530		mg/kg	0.079	0.052	1	05/24/24 10:10	05/24/24 12:54	EPA 7471B	1,7471B	MJR
Nickel, Total	9.44		mg/kg	2.41	0.233	2	05/24/24 09:00	05/24/24 16:08	EPA 3050B	1,6010D	JMF
Potassium, Total	358		mg/kg	241	13.9	2	05/24/24 09:00	05/24/24 16:08	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	1.93	0.248	2	05/24/24 09:00	05/24/24 16:08	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.482	0.273	2	05/24/24 09:00	05/24/24 16:08	EPA 3050B	1,6010D	JMF
Sodium, Total	114	J	mg/kg	193	3.03	2	05/24/24 09:00	05/24/24 16:08	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.93	0.303	2	05/24/24 09:00	05/24/24 16:08	EPA 3050B	1,6010D	JMF
Vanadium, Total	11.0		mg/kg	0.963	0.196	2	05/24/24 09:00	05/24/24 16:08	EPA 3050B	1,6010D	JMF
Zinc, Total	603		mg/kg	4.82	0.282	2	05/24/24 09:00	05/24/24 16:08	EPA 3050B	1,6010D	JMF

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** L2427928

Project Number: 23.3588 **Report Date:** 05/28/24

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): 01-10 Batch: WG1925297-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	05/24/24 09:00	05/24/24 11:39	1,6010D	DMC
Antimony, Total	ND		mg/kg	2.00	0.152	1	05/24/24 09:00	05/24/24 11:39	1,6010D	DMC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	05/24/24 09:00	05/24/24 11:39	1,6010D	DMC
Barium, Total	ND		mg/kg	0.400	0.070	1	05/24/24 09:00	05/24/24 11:39	1,6010D	DMC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	05/24/24 09:00	05/24/24 11:39	1,6010D	DMC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	05/24/24 09:00	05/24/24 11:39	1,6010D	DMC
Calcium, Total	ND		mg/kg	4.00	1.40	1	05/24/24 09:00	05/24/24 11:39	1,6010D	DMC
Chromium, Total	ND		mg/kg	0.400	0.038	1	05/24/24 09:00	05/24/24 11:39	1,6010D	DMC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	05/24/24 09:00	05/24/24 11:39	1,6010D	DMC
Copper, Total	ND		mg/kg	0.400	0.103	1	05/24/24 09:00	05/24/24 11:39	1,6010D	DMC
Iron, Total	0.504	J	mg/kg	2.00	0.361	1	05/24/24 09:00	05/24/24 11:39	1,6010D	DMC
Lead, Total	ND		mg/kg	2.00	0.107	1	05/24/24 09:00	05/24/24 11:39	1,6010D	DMC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	05/24/24 09:00	05/24/24 11:39	1,6010D	DMC
Manganese, Total	ND		mg/kg	0.400	0.064	1	05/24/24 09:00	05/24/24 11:39	1,6010D	DMC
Nickel, Total	ND		mg/kg	1.00	0.097	1	05/24/24 09:00	05/24/24 11:39	1,6010D	DMC
Potassium, Total	ND		mg/kg	100	5.76	1	05/24/24 09:00	05/24/24 11:39	1,6010D	DMC
Selenium, Total	ND		mg/kg	0.800	0.103	1	05/24/24 09:00	05/24/24 11:39	1,6010D	DMC
Silver, Total	ND		mg/kg	0.200	0.113	1	05/24/24 09:00	05/24/24 11:39	1,6010D	DMC
Sodium, Total	ND		mg/kg	80.0	1.26	1	05/24/24 09:00	05/24/24 11:39	1,6010D	DMC
Thallium, Total	ND		mg/kg	0.800	0.126	1	05/24/24 09:00	05/24/24 11:39	1,6010D	DMC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	05/24/24 09:00	05/24/24 11:39	1,6010D	DMC
Zinc, Total	ND		mg/kg	2.00	0.117	1	05/24/24 09:00	05/24/24 11:39	1,6010D	DMC

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): 01-10 Batch: WG1925299-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	05/24/24 10:10	05/24/24 11:51	1,7471B	MJR

Project Name: SCHENECTADY 40 ANCHOR SITE
Lab Number: L2427928
Project Number: 23.3588
Report Date: 05/28/24

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

REPORT 4

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE

Project Number: 23.3588

Lab Number: L2427928

Report Date: 05/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1925297-2								
Aluminum, Total	110		-		80-120	-		
Antimony, Total	104		-		80-120	-		
Arsenic, Total	106		-		80-120	-		
Barium, Total	112		-		80-120	-		
Beryllium, Total	114		-		80-120	-		
Cadmium, Total	98		-		80-120	-		
Calcium, Total	115		-		80-120	-		
Chromium, Total	106		-		80-120	-		
Cobalt, Total	102		-		80-120	-		
Copper, Total	106		-		80-120	-		
Iron, Total	116		-		80-120	-		
Lead, Total	105		-		80-120	-		
Magnesium, Total	102		-		80-120	-		
Manganese, Total	118		-		80-120	-		
Nickel, Total	100		-		80-120	-		
Potassium, Total	120		-		80-120	-		
Selenium, Total	101		-		80-120	-		
Silver, Total	114		-		80-120	-		
Sodium, Total	111		-		80-120	-		
Thallium, Total	99		-		80-120	-		
Vanadium, Total	105		-		80-120	-		

REPORT 4

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE

Project Number: 23.3588

Lab Number: L2427928

Report Date: 05/28/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1925297-2					
Zinc, Total	102	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-10 Batch: WG1925299-2					
Mercury, Total	104	-	80-120	-	

REPORT 4

Matrix Spike Analysis
Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

Lab Number: L2427928
Report Date: 05/28/24

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): 01-10 QC Batch ID: WG1925297-3 QC Sample: L2428902-05 Client ID: MS Sample												
Aluminum, Total	4520	168	6220	**1010**	Q	-	-		75-125	-		20
Antimony, Total	ND	42	42.6	101		-	-		75-125	-		20
Arsenic, Total	3.87	10.1	12.8	88		-	-		75-125	-		20
Barium, Total	9.13	168	192	109		-	-		75-125	-		20
Beryllium, Total	0.137J	4.2	4.78	114		-	-		75-125	-		20
Cadmium, Total	ND	4.45	4.29	96		-	-		75-125	-		20
Calcium, Total	236	840	1160	110		-	-		75-125	-		20
Chromium, Total	12.0	16.8	29.5	104		-	-		75-125	-		20
Cobalt, Total	0.444J	42	43.7	104		-	-		75-125	-		20
Copper, Total	3.01	21	25.1	105		-	-		75-125	-		20
Iron, Total	7320	84	5600	**0**	Q	-	-		75-125	-		20
Lead, Total	4.81	44.5	52.5	107		-	-		75-125	-		20
Magnesium, Total	220	840	1110	106		-	-		75-125	-		20
Manganese, Total	8.82	42	58.9	119		-	-		75-125	-		20
Nickel, Total	0.877J	42	42.9	102		-	-		75-125	-		20
Potassium, Total	323	840	1400	**128**	Q	-	-		75-125	-		20
Selenium, Total	ND	10.1	9.47	94		-	-		75-125	-		20
Silver, Total	ND	4.2	4.77	114		-	-		75-125	-		20
Sodium, Total	4.80J	840	893	106		-	-		75-125	-		20
Thallium, Total	ND	10.1	9.45	94		-	-		75-125	-		20
Vanadium, Total	23.6	42	63.2	94		-	-		75-125	-		20

REPORT 4

Matrix Spike Analysis
Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

Lab Number: L2427928
Report Date: 05/28/24

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): 01-10 QC Batch ID: WG1925297-3 QC Sample: L2428902-05 Client ID: MS Sample									
Zinc, Total	4.41	42	49.0	106	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1925299-3 QC Sample: L2428902-05 Client ID: MS Sample									
Mercury, Total	ND	1.36	1.43	106	-	-	80-120	-	20

REPORT 4

Lab Duplicate Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE

Project Number: 23.3588

Lab Number: L2427928

Report Date: 05/28/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1925297-4 QC Sample: L2428902-05 Client ID: DUP Sample						
Aluminum, Total	4520	4190	mg/kg	8		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	3.87	4.68	mg/kg	19		20
Barium, Total	9.13	8.44	mg/kg	8		20
Beryllium, Total	0.137J	0.146J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	236	250	mg/kg	6		20
Chromium, Total	12.0	13.3	mg/kg	10		20
Cobalt, Total	0.444J	0.438J	mg/kg	NC		20
Copper, Total	3.01	3.13	mg/kg	4		20
Iron, Total	7320	9390	mg/kg	**25**	Q	20
Lead, Total	4.81	4.93	mg/kg	2		20
Magnesium, Total	220	204	mg/kg	8		20
Manganese, Total	8.82	8.82	mg/kg	0		20
Nickel, Total	0.877J	0.806J	mg/kg	NC		20
Potassium, Total	323	300	mg/kg	7		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	4.80J	4.06J	mg/kg	NC		20

REPORT 4

Lab Duplicate Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE

Project Number: 23.3588

Lab Number: L2427928

Report Date: 05/28/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1925297-4 QC Sample: L2428902-05 Client ID: DUP Sample					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	23.6	24.6	mg/kg	4	20
Zinc, Total	4.41	4.53	mg/kg	3	20
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1925299-4 QC Sample: L2428902-05 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/kg	NC	20

REPORT 4

Lab Serial Dilution Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

Lab Number: L2427928
Report Date: 05/28/24

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-10 QC Batch ID: WG1925297-6 QC Sample: L2428902-05 Client ID: DUP Sample						
Aluminum, Total	4520	4470	mg/kg	1		20
Calcium, Total	236	245	mg/kg	4		20
Iron, Total	7320	7380	mg/kg	1		20
Magnesium, Total	220	231	mg/kg	5		20
Vanadium, Total	23.6	23.7	mg/kg	0		20

INORGANICS
&
MISCELLANEOUS

Project Name: SCHENECTADY 40 ANCHOR SITE
Lab Number: L2427928
Project Number: 23.3588
Report Date: 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-01
Client ID: GP-7_5-7.5
Sample Location: SCHENECTADY, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/20/24 12:50
Date Received: 05/20/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.5		%	0.100	NA	1	-	05/21/24 14:11	121,2540G	ROI

Project Name: SCHENECTADY 40 ANCHOR SITE
Lab Number: L2427928
Project Number: 23.3588
Report Date: 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-02
Client ID: GP-8_5-7.5
Sample Location: SCHENECTADY, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/20/24 13:00
Date Received: 05/20/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.8		%	0.100	NA	1	-	05/21/24 14:11	121,2540G	ROI

Project Name: SCHENECTADY 40 ANCHOR SITE
Lab Number: L2427928
Project Number: 23.3588
Report Date: 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-03
Client ID: GP-9_5-7.5
Sample Location: SCHENECTADY, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/20/24 13:05
Date Received: 05/20/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.9		%	0.100	NA	1	-	05/21/24 14:11	121,2540G	ROI

Project Name: SCHENECTADY 40 ANCHOR SITE
Lab Number: L2427928
Project Number: 23.3588
Report Date: 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-04
Client ID: GP-10_2.5-5
Sample Location: SCHENECTADY, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/20/24 13:10
Date Received: 05/20/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.6		%	0.100	NA	1	-	05/21/24 14:11	121,2540G	ROI

Project Name: SCHENECTADY 40 ANCHOR SITE
Lab Number: L2427928
Project Number: 23.3588
Report Date: 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-05
Client ID: GP-11_2.5-5
Sample Location: SCHENECTADY, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/20/24 13:15
Date Received: 05/20/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	92.2		%	0.100	NA	1	-	05/21/24 14:11	121,2540G	ROI

Project Name: SCHENECTADY 40 ANCHOR SITE
Lab Number: L2427928
Project Number: 23.3588
Report Date: 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-06
Client ID: GP-12_5-7.5
Sample Location: SCHENECTADY, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/20/24 13:20
Date Received: 05/20/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	87.9		%	0.100	NA	1	-	05/21/24 14:11	121,2540G	ROI

Project Name: SCHENECTADY 40 ANCHOR SITE
Lab Number: L2427928
Project Number: 23.3588
Report Date: 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-07
Client ID: GP-13_5-7.5
Sample Location: SCHENECTADY, NY
Date Collected: 05/20/24 13:25
Date Received: 05/20/24
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	81.2		%	0.100	NA	1	-	05/21/24 14:11	121,2540G	ROI

Project Name: SCHENECTADY 40 ANCHOR SITE
Lab Number: L2427928
Project Number: 23.3588
Report Date: 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-08
Client ID: GP-14_5-6
Sample Location: SCHENECTADY, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/20/24 13:30
Date Received: 05/20/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	82.7		%	0.100	NA	1	-	05/21/24 14:11	121,2540G	ROI

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588
Lab Number: L2427928
Report Date: 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-09
Client ID: GP-15_5-7
Sample Location: SCHENECTADY, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/20/24 13:35
Date Received: 05/20/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.8		%	0.100	NA	1	-	05/21/24 14:11	121,2540G	ROI

Project Name: SCHENECTADY 40 ANCHOR SITE
Lab Number: L2427928
Project Number: 23.3588
Report Date: 05/28/24

SAMPLE RESULTS

Lab ID: L2427928-10
Client ID: GP-16_2.5-5
Sample Location: SCHENECTADY, NY
Sample Depth:
Matrix: Soil

Date Collected: 05/20/24 13:40
Date Received: 05/20/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.6		%	0.100	NA	1	-	05/21/24 14:11	121,2540G	ROI

REPORT 4

Lab Duplicate Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR SITE

Project Number: 23.3588

Lab Number: L2427928

Report Date: 05/28/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-10 QC Batch ID: WG1923789-1 QC Sample: L2427964-01 Client ID: DUP Sample						
Solids, Total	58.4	55.2	%	6		20

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

REPORT 4

Lab Number: L2427928
Report Date: 05/28/24

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(*)
L2427928-01A	Plastic 2oz unpreserved for TS	A	NA		5.2	Y	Absent		TS(7)
L2427928-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)
L2427928-01C	Glass 120ml/4oz unpreserved	A	NA		5.2	Y	Absent		NYCP51-PAH(14)
L2427928-02A	Plastic 2oz unpreserved for TS	A	NA		5.2	Y	Absent		TS(7)
L2427928-02B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),SE-TI(180),SB-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2427928-02C	Glass 120ml/4oz unpreserved	A	NA		5.2	Y	Absent		NYCP51-PAH(14)
L2427928-03A	Plastic 2oz unpreserved for TS	A	NA		5.2	Y	Absent		TS(7)
L2427928-03B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MN-TI(180),MG-TI(180),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2427928-03C	Glass 120ml/4oz unpreserved	A	NA		5.2	Y	Absent		NYCP51-PAH(14)
L2427928-04A	Plastic 2oz unpreserved for TS	A	NA		5.2	Y	Absent		TS(7)
L2427928-04B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),CD-TI(180),K-TI(180),NA-TI(180),CA-TI(180)
L2427928-04C	Glass 120ml/4oz unpreserved	A	NA		5.2	Y	Absent		NYCP51-PAH(14)
L2427928-05A	Plastic 2oz unpreserved for TS	A	NA		5.2	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588

Lab Number: L2427928
Report Date: 05/28/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2427928-05B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),NI-TI(180),CR-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2427928-05C	Glass 120ml/4oz unpreserved	A	NA		5.2	Y	Absent		NYCP51-PAH(14)
L2427928-06A	Plastic 2oz unpreserved for TS	A	NA		5.2	Y	Absent		TS(7)
L2427928-06B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),CU-TI(180),ZN-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),NA-TI(180),K-TI(180)
L2427928-06C	Glass 120ml/4oz unpreserved	A	NA		5.2	Y	Absent		NYCP51-PAH(14)
L2427928-07A	Plastic 2oz unpreserved for TS	A	NA		5.2	Y	Absent		TS(7)
L2427928-07B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2427928-07C	Glass 120ml/4oz unpreserved	A	NA		5.2	Y	Absent		NYCP51-PAH(14)
L2427928-08A	Plastic 2oz unpreserved for TS	A	NA		5.2	Y	Absent		TS(7)
L2427928-08B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),AL-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NA-TI(180),CD-TI(180),K-TI(180),CA-TI(180)
L2427928-08C	Glass 120ml/4oz unpreserved	A	NA		5.2	Y	Absent		NYCP51-PAH(14)
L2427928-09A	Plastic 2oz unpreserved for TS	A	NA		5.2	Y	Absent		TS(7)
L2427928-09B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),NI-TI(180),TL-TI(180),CR-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),NA-TI(180),K-TI(180),CA-TI(180),CD-TI(180)
L2427928-09C	Glass 120ml/4oz unpreserved	A	NA		5.2	Y	Absent		NYCP51-PAH(14)
L2427928-10A	Plastic 2oz unpreserved for TS	A	NA		5.2	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: SCHENECTADY 40 ANCHOR SITE

Project Number: 23.3588

REPORT 4

Lab Number: L2427928

Report Date: 05/28/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2427928-10B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.2	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),CU-TI(180),SB-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)
L2427928-10C	Glass 120ml/4oz unpreserved	A	NA		5.2	Y	Absent		NYCP51-PAH(14)

*Values in parentheses indicate holding time in days

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** L2427928

Project Number: 23.3588 **Report Date:** 05/28/24

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

Project Name:	SCHENECTADY 40 ANCHOR SITE	**Lab Number:**	L2427928
Project Number:	23.3588	**Report Date:**	05/28/24

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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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 for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

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

Report Format: DU Report with 'J' Qualifiers

Project Name: SCHENECTADY 40 ANCHOR SITE **Lab Number:** L2427928

Project Number: 23.3588 **Report Date:** 05/28/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

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 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.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: SCHENECTADY 40 ANCHOR SITE
Project Number: 23.3588
Lab Number: L2427928
Report Date: 05/28/24

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 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved 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 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).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

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, EPA 537.1.

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 ANALYTICAL

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: 5/21/24

ALPHA Job #: L2427928

Client Information

Client: CT Male Associates
Address: 50 Century Hill Drive
Latham, NY 12110
Phone: 518 786 7400
Fax:
Email: a.smith@ctmale.com

Project Information

Project Name: Schenectady 40 Anchor Site
Project Location: Schenectady, NY
Project # 23.3588
(Use Project name as Project #) ☐
Project Manager: Aimee Smith
ALPHAQuote #:

Turn-Around Time

Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☒ ASP-B
☒ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

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:

Total solids bottle included in total count

Please specify Metals or TAL.

ANALYSIS

CP-51 SVOCs 8270 | TAL Metals

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	CP-51 SVOCs 8270	TAL Metals	Sample Specific Comments	Total Bottle
27928-01	GP-7_5-7.5	5/20/24	1250	Soil	AR	X	X		3
-02	GP-8_5-7.5		1300			X	X		3
-03	GP-9_5-7.5		1305			X	X		3
-04	GP-10_2.5-5		1310			X	X		3
-05	GP-11_2.5-5		1315			X	X		3
-06	GP-12_5-7.5		1320			X	X		3
-07	GP-13_5-7.5		1325			X	X		3
-08	GP-14_5-6		1330			X	X		3
-09	GP-15_5-7		1335			X	X		3
-10	GP-16_2.5-5		1340			X	X		3

Container Type: A A
Preservative: 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
	5/20/24 1500	FACE	5/20/24 1500
FACE	5/20/24 1610		5/21/24 200

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

Laboratory Analysis Report for Soil from Test Pits

ANALYTICAL REPORT

Lab Number:	L2450528
Client:	C.T. Male Associates 50 Century Hill Drive Latham, NY 12110
ATTN:	Aimee Smith
Phone:	(518) 786-7400
Project Name:	SCHENECTADY 40 ANCHOR
Project Number:	23.3588
Report Date:	09/12/24

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930A1).

REPORT 4

Project Name: SCHENECTADY 40 ANCHOR
Project Number: 23.3588

Lab Number: L2450528
Report Date: 09/12/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2450528-01	TP-1	SOIL	SCHENECTADY, NY	09/05/24 11:05	09/05/24
L2450528-02	TP-2	SOIL	SCHENECTADY, NY	09/05/24 11:10	09/05/24
L2450528-03	TP-3	SOIL	SCHENECTADY, NY	09/05/24 11:15	09/05/24

Project Name: SCHENECTADY 40 ANCHOR
Project Number: 23.3588
Lab Number: L2450528
Report Date: 09/12/24

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 and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet 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: SCHENECTADY 40 ANCHOR **Lab Number:** L2450528
Project Number: 23.3588 **Report Date:** 09/12/24

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2450528-03: The surrogate recovery is outside the acceptance criteria for 1,2-dichloroethane-d4 (134%) and 4-bromofluorobenzene (486%); however, the sample was not re-analyzed due to coelution with an obvious interference. A copy of the chromatogram is included as an attachment to this report.

The WG1970749-5 Method Blank, associated with L2450528-03, has a concentration above the reporting limit for bromomethane. Since the associated sample concentrations are either greater than 10x the blank concentration or non-detect to the RL for this target analyte, no corrective action is required. Any results detected below the reporting limit are qualified with a "B".

Total Metals

L2450528-01 through -03: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

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

Title: Technical Director/Representative Date: 09/12/24

ORGANICS

VOLATILES

Project Name: SCHENECTADY 40 ANCHOR **Lab Num** 3

Project Number: 23.3588 **Report Date:** 09/12/24

SAMPLE RESULTS

Lab ID: L2450528-01
Client ID: TP-1
Sample Location: SCHENECTADY, NY

Date Collected: 09/05/24 11:05
Date Received: 09/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 09/10/24 17:52
Analyst: JIC
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.6	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	2.0	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
1,2-Dichloropropane	ND		ug/kg	1.3	0.16	1
Dibromochloromethane	ND		ug/kg	1.3	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.3	0.35	1
Tetrachloroethene	ND		ug/kg	0.66	0.26	1
Chlorobenzene	ND		ug/kg	0.66	0.17	1
Trichlorofluoromethane	ND		ug/kg	5.3	0.92	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.34	1
1,1,1-Trichloroethane	ND		ug/kg	0.66	0.22	1
Bromodichloromethane	ND		ug/kg	0.66	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.3	0.36	1
cis-1,3-Dichloropropene	ND		ug/kg	0.66	0.21	1
Bromoform	ND		ug/kg	5.3	0.33	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.66	0.22	1
Benzene	ND		ug/kg	0.66	0.22	1
Toluene	ND		ug/kg	1.3	0.72	1
Ethylbenzene	ND		ug/kg	1.3	0.19	1
Chloromethane	ND		ug/kg	5.3	1.2	1
Bromomethane	ND		ug/kg	2.6	0.77	1
Vinyl chloride	ND		ug/kg	1.3	0.44	1
Chloroethane	ND		ug/kg	2.6	0.60	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.32	1
trans-1,2-Dichloroethene	ND		ug/kg	2.0	0.18	1
Trichloroethene	ND		ug/kg	0.66	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.19	1

Project Name: SCHENECTADY 40 ANCHOR **Lab Num** 3

Project Number: 23.3588 **Report Date:** 09/12/24

SAMPLE RESULTS

Lab ID: L2450528-01 Date Collected: 09/05/24 11:05
Client ID: TP-1 Date Received: 09/05/24
Sample Location: SCHENECTADY, 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	2.6	0.20	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.23	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.27	1
p/m-Xylene	ND		ug/kg	2.6	0.74	1
o-Xylene	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
Styrene	ND		ug/kg	1.3	0.26	1
Dichlorodifluoromethane	ND		ug/kg	13	1.2	1
Acetone	17		ug/kg	13	6.4	1
Carbon disulfide	ND		ug/kg	13	6.0	1
2-Butanone	ND		ug/kg	13	2.9	1
4-Methyl-2-pentanone	ND		ug/kg	13	1.7	1
2-Hexanone	ND		ug/kg	13	1.6	1
1,2-Dibromoethane	ND		ug/kg	1.3	0.37	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.0	1.3	1
Isopropylbenzene	ND		ug/kg	1.3	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.3	0.14	1
Naphthalene	ND		ug/kg	5.3	0.86	1
n-Propylbenzene	ND		ug/kg	1.3	0.23	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.6	0.36	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.26	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.44	1
Methyl Acetate	ND		ug/kg	5.3	1.2	1
Cyclohexane	ND		ug/kg	13	0.72	1
Freon-113	ND		ug/kg	5.3	0.92	1
Methyl cyclohexane	ND		ug/kg	5.3	0.80	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	93		70-130

Project Name: SCHENECTADY 40 ANCHOR **Lab Num** 3

Project Number: 23.3588 **Report Date:** 09/12/24

SAMPLE RESULTS

Lab ID: L2450528-02
Client ID: TP-2
Sample Location: SCHENECTADY, NY

Date Collected: 09/05/24 11:10
Date Received: 09/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 09/10/24 18:18
Analyst: JIC
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.16	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.30	1
Tetrachloroethene	ND		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
Trichlorofluoromethane	2.4	J	ug/kg	4.6	0.79	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Bromodichloromethane	ND		ug/kg	0.57	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.57	0.18	1
Bromoform	ND		ug/kg	4.6	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.57	0.19	1
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	ND		ug/kg	1.1	0.62	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.6	1.1	1
Bromomethane	ND		ug/kg	2.3	0.66	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.3	0.52	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1

Project Name: SCHENECTADY 40 ANCHOR **Lab Num** REPORT 4 3

Project Number: 23.3588 **Report Date:** 09/12/24

SAMPLE RESULTS

Lab ID: L2450528-02 Date Collected: 09/05/24 11:10
Client ID: TP-2 Date Received: 09/05/24
Sample Location: SCHENECTADY, 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	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.19	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	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	15		ug/kg	11	5.5	1
Carbon disulfide	ND		ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.5	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
2-Hexanone	ND		ug/kg	11	1.3	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.32	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Isopropylbenzene	ND		ug/kg	1.1	0.12	1
p-Isopropyltoluene	0.23	J	ug/kg	1.1	0.12	1
Naphthalene	1.4	J	ug/kg	4.6	0.74	1
n-Propylbenzene	ND		ug/kg	1.1	0.19	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.3	0.31	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
Methyl Acetate	ND		ug/kg	4.6	1.1	1
Cyclohexane	ND		ug/kg	11	0.62	1
Freon-113	ND		ug/kg	4.6	0.79	1
Methyl cyclohexane	0.74	J	ug/kg	4.6	0.69	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	94		70-130

Project Name: SCHENECTADY 40 ANCHOR **Lab Num** 3

Project Number: 23.3588 **Report Date:** 09/12/24

SAMPLE RESULTS

Lab ID: L2450528-03
Client ID: TP-3
Sample Location: SCHENECTADY, NY

Date Collected: 09/05/24 11:15
Date Received: 09/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 09/12/24 02:01
Analyst: JIC
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	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	ND		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	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	0.53	0.18	1
Bromodichloromethane	ND		ug/kg	0.53	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.29	1
cis-1,3-Dichloropropene	ND		ug/kg	0.53	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.53	0.18	1
Benzene	ND		ug/kg	0.53	0.18	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	0.48	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	0.53	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1

Project Name: SCHENECTADY 40 ANCHOR **Lab Num** REPORT 4 3

Project Number: 23.3588 **Report Date:** 09/12/24

SAMPLE RESULTS

Lab ID: L2450528-03 Date Collected: 09/05/24 11:15
Client ID: TP-3 Date Received: 09/05/24
Sample Location: SCHENECTADY, 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	0.61	J	ug/kg	1.0	0.31	1
cis-1,2-Dichloroethene	0.27	J	ug/kg	1.0	0.18	1
Styrene	ND		ug/kg	1.0	0.21	1
Dichlorodifluoromethane	ND		ug/kg	10	0.97	1
Acetone	85		ug/kg	10	5.1	1
Carbon disulfide	ND		ug/kg	10	4.8	1
2-Butanone	13		ug/kg	10	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.4	1
2-Hexanone	ND		ug/kg	10	1.2	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.30	1
n-Butylbenzene	86		ug/kg	1.0	0.18	1
sec-Butylbenzene	110		ug/kg	1.0	0.15	1
tert-Butylbenzene	6.2		ug/kg	2.1	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.2	1.0	1
Isopropylbenzene	8.7		ug/kg	1.0	0.12	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.12	1
Naphthalene	4.2		ug/kg	4.2	0.69	1
n-Propylbenzene	11		ug/kg	1.0	0.18	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.29	1
1,3,5-Trimethylbenzene	0.70	J	ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
Methyl Acetate	1.7	J	ug/kg	4.2	1.0	1
Cyclohexane	ND		ug/kg	10	0.58	1
Freon-113	ND		ug/kg	4.2	0.73	1
Methyl cyclohexane	3.8	J	ug/kg	4.2	0.64	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**134**	Q	70-130
Toluene-d8	96		70-130
4-Bromofluorobenzene	**486**	Q	70-130
Dibromofluoromethane	123		70-130

Project Name: SCHENECTADY 40 ANCHOR
Project Number: 23.3588
Lab Number: L2450528
Report Date: 09/12/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 09/10/24 10:02
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1969787-5					
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: SCHENECTADY 40 ANCHOR
Project Number: 23.3588
Lab Number: L2450528
Report Date: 09/12/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 09/10/24 10:02
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1969787-5					
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: SCHENECTADY 40 ANCHOR
Project Number: 23.3588
Lab Number: L2450528
Report Date: 09/12/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 09/10/24 10:02
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-02 Batch: WG1969787-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	95		70-130
Dibromofluoromethane	90		70-130

Project Name: SCHENECTADY 40 ANCHOR **Lab Number:** L2450528

Project Number: 23.3588 **Report Date:** 09/12/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 09/11/24 22:47
Analyst: RAW

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03 Batch: WG1970749-5					
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	2.8		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: SCHENECTADY 40 ANCHOR **Lab Number:** L2450528

Project Number: 23.3588 **Report Date:** 09/12/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 09/11/24 22:47
Analyst: RAW

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03 Batch: WG1970749-5					
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: SCHENECTADY 40 ANCHOR
Project Number: 23.3588
Lab Number: L2450528
Report Date: 09/12/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 09/11/24 22:47
Analyst: RAW

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 03 Batch: WG1970749-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	96		70-130

REPORT 4

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR

Project Number: 23.3588

Lab Number: L2450528

Report Date: 09/12/24

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: WG1969787-3 WG1969787-4								
Methylene chloride	83		81		70-130	2		30
1,1-Dichloroethane	85		83		70-130	2		30
Chloroform	84		82		70-130	2		30
Carbon tetrachloride	88		86		70-130	2		30
1,2-Dichloropropane	82		82		70-130	0		30
Dibromochloromethane	87		88		70-130	1		30
1,1,2-Trichloroethane	87		89		70-130	2		30
Tetrachloroethene	109		108		70-130	1		30
Chlorobenzene	98		97		70-130	1		30
Trichlorofluoromethane	94		92		70-139	2		30
1,2-Dichloroethane	79		79		70-130	0		30
1,1,1-Trichloroethane	89		87		70-130	2		30
Bromodichloromethane	81		81		70-130	0		30
trans-1,3-Dichloropropene	99		99		70-130	0		30
cis-1,3-Dichloropropene	92		92		70-130	0		30
Bromoform	84		89		70-130	6		30
1,1,2,2-Tetrachloroethane	91		94		70-130	3		30
Benzene	87		86		70-130	1		30
Toluene	96		95		70-130	1		30
Ethylbenzene	98		97		70-130	1		30
Chloromethane	83		78		52-130	6		30
Bromomethane	115		103		57-147	11		30
Vinyl chloride	88		83		67-130	6		30

REPORT 4

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR

Project Number: 23.3588

Lab Number: L2450528

Report Date: 09/12/24

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: WG1969787-3 WG1969787-4								
Chloroethane	92		85		50-151	8		30
1,1-Dichloroethene	95		90		65-135	5		30
trans-1,2-Dichloroethene	94		90		70-130	4		30
Trichloroethene	88		87		70-130	1		30
1,2-Dichlorobenzene	100		100		70-130	0		30
1,3-Dichlorobenzene	105		104		70-130	1		30
1,4-Dichlorobenzene	104		103		70-130	1		30
Methyl tert butyl ether	82		83		66-130	1		30
p/m-Xylene	101		99		70-130	2		30
o-Xylene	98		96		70-130	2		30
cis-1,2-Dichloroethene	89		85		70-130	5		30
Styrene	98		97		70-130	1		30
Dichlorodifluoromethane	84		80		30-146	5		30
Acetone	64		65		54-140	2		30
Carbon disulfide	85		82		59-130	4		30
2-Butanone	**64**	Q	74		70-130	14		30
4-Methyl-2-pentanone	84		89		70-130	6		30
2-Hexanone	79		83		70-130	5		30
1,2-Dibromoethane	95		97		70-130	2		30
n-Butylbenzene	108		107		70-130	1		30
sec-Butylbenzene	102		101		70-130	1		30
tert-Butylbenzene	100		100		70-130	0		30
1,2-Dibromo-3-chloropropane	90		95		68-130	5		30

REPORT 4

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR

Project Number: 23.3588

Lab Number: L2450528

Report Date: 09/12/24

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: WG1969787-3 WG1969787-4								
Isopropylbenzene	102		101		70-130	1		30
p-Isopropyltoluene	106		105		70-130	1		30
Naphthalene	105		108		70-130	3		30
n-Propylbenzene	104		103		70-130	1		30
1,2,4-Trichlorobenzene	119		120		70-130	1		30
1,3,5-Trimethylbenzene	101		100		70-130	1		30
1,2,4-Trimethylbenzene	102		100		70-130	2		30
Methyl Acetate	75		76		51-146	1		30
Cyclohexane	86		84		59-142	2		30
Freon-113	97		94		50-139	3		30
Methyl cyclohexane	90		89		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	86		88		70-130
Toluene-d8	103		102		70-130
4-Bromofluorobenzene	97		98		70-130
Dibromofluoromethane	89		90		70-130

REPORT 4

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR

Project Number: 23.3588

Lab Number: L2450528

Report Date: 09/12/24

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 Batch: WG1970749-3 WG1970749-4								
Methylene chloride	84		84		70-130	0		30
1,1-Dichloroethane	96		96		70-130	0		30
Chloroform	93		94		70-130	1		30
Carbon tetrachloride	96		97		70-130	1		30
1,2-Dichloropropane	95		98		70-130	3		30
Dibromochloromethane	86		88		70-130	2		30
1,1,2-Trichloroethane	98		100		70-130	2		30
Tetrachloroethene	95		96		70-130	1		30
Chlorobenzene	93		94		70-130	1		30
Trichlorofluoromethane	105		101		70-139	4		30
1,2-Dichloroethane	96		98		70-130	2		30
1,1,1-Trichloroethane	94		95		70-130	1		30
Bromodichloromethane	87		89		70-130	2		30
trans-1,3-Dichloropropene	101		102		70-130	1		30
cis-1,3-Dichloropropene	94		96		70-130	2		30
Bromoform	82		81		70-130	1		30
1,1,2,2-Tetrachloroethane	99		100		70-130	1		30
Benzene	94		94		70-130	0		30
Toluene	98		98		70-130	0		30
Ethylbenzene	100		100		70-130	0		30
Chloromethane	99		96		52-130	3		30
Bromomethane	91		86		57-147	6		30
Vinyl chloride	106		102		67-130	4		30

REPORT 4

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR

Project Number: 23.3588

Lab Number: L2450528

Report Date: 09/12/24

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 Batch: WG1970749-3 WG1970749-4								
Chloroethane	108		105		50-151	3		30
1,1-Dichloroethene	93		91		65-135	2		30
trans-1,2-Dichloroethene	95		96		70-130	1		30
Trichloroethene	95		97		70-130	2		30
1,2-Dichlorobenzene	95		94		70-130	1		30
1,3-Dichlorobenzene	99		97		70-130	2		30
1,4-Dichlorobenzene	95		95		70-130	0		30
Methyl tert butyl ether	85		98		66-130	14		30
p/m-Xylene	97		97		70-130	0		30
o-Xylene	94		94		70-130	0		30
cis-1,2-Dichloroethene	89		90		70-130	1		30
Styrene	95		95		70-130	0		30
Dichlorodifluoromethane	101		97		30-146	4		30
Acetone	110		107		54-140	3		30
Carbon disulfide	92		89		59-130	3		30
2-Butanone	101		103		70-130	2		30
4-Methyl-2-pentanone	99		100		70-130	1		30
2-Hexanone	96		99		70-130	3		30
1,2-Dibromoethane	94		95		70-130	1		30
n-Butylbenzene	108		106		70-130	2		30
sec-Butylbenzene	104		102		70-130	2		30
tert-Butylbenzene	100		99		70-130	1		30
1,2-Dibromo-3-chloropropane	85		87		68-130	2		30

REPORT 4

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR

Project Number: 23.3588

Lab Number: L2450528

Report Date: 09/12/24

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 Batch: WG1970749-3 WG1970749-4								
Isopropylbenzene	101		102		70-130	1		30
p-Isopropyltoluene	102		99		70-130	3		30
Naphthalene	94		93		70-130	1		30
n-Propylbenzene	104		103		70-130	1		30
1,2,4-Trichlorobenzene	91		91		70-130	0		30
1,3,5-Trimethylbenzene	100		99		70-130	1		30
1,2,4-Trimethylbenzene	100		99		70-130	1		30
Methyl Acetate	112		115		51-146	3		30
Cyclohexane	107		106		59-142	1		30
Freon-113	98		96		50-139	2		30
Methyl cyclohexane	94		95		70-130	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	101		102		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	103		99		70-130
Dibromofluoromethane	93		92		70-130

SEMIVOLATILES

Project Name: SCHENECTADY 40 ANCHOR **Lab Num** 3

Project Number: 23.3588 **Report Date:** 09/12/24

SAMPLE RESULTS

Lab ID: L2450528-01
Client ID: TP-1
Sample Location: SCHENECTADY, NY

Date Collected: 09/05/24 11:05
Date Received: 09/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 09/11/24 14:39
Analyst: EK
Percent Solids: 74%

Extraction Method: EPA 3546
Extraction Date: 09/10/24 06:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	23.	1
Fluoranthene	220		ug/kg	130	25.	1
Benzo(a)anthracene	120	J	ug/kg	130	25.	1
Benzo(a)pyrene	120	J	ug/kg	180	53.	1
Benzo(b)fluoranthene	170		ug/kg	130	37.	1
Benzo(k)fluoranthene	48	J	ug/kg	130	35.	1
Chrysene	130		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	180	34.	1
Anthracene	ND		ug/kg	130	43.	1
Benzo(ghi)perylene	91	J	ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	21.	1
Phenanthrene	100	J	ug/kg	130	27.	1
Dibenzo(a,h)anthracene	26	J	ug/kg	130	25.	1
Indeno(1,2,3-cd)pyrene	73	J	ug/kg	180	30.	1
Pyrene	180		ug/kg	130	22.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	55		23-120
2-Fluorobiphenyl	70		30-120
4-Terphenyl-d14	59		18-120

Project Name: SCHENECTADY 40 ANCHOR **Lab Num** REPORT 4 3

Project Number: 23.3588 **Report Date:** 09/12/24

SAMPLE RESULTS

Lab ID: L2450528-02 D
Client ID: TP-2
Sample Location: SCHENECTADY, NY

Date Collected: 09/05/24 11:10
Date Received: 09/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 09/11/24 14:57
Analyst: SLR
Percent Solids: 76%

Extraction Method: EPA 3546
Extraction Date: 09/10/24 06:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	440	J	ug/kg	860	110	5
Fluoranthene	24000		ug/kg	640	120	5
Benzo(a)anthracene	10000		ug/kg	640	120	5
Benzo(a)pyrene	9400		ug/kg	860	260	5
Benzo(b)fluoranthene	16000		ug/kg	640	180	5
Benzo(k)fluoranthene	3200		ug/kg	640	170	5
Chrysene	10000		ug/kg	640	110	5
Acenaphthylene	4800		ug/kg	860	160	5
Anthracene	4200		ug/kg	640	210	5
Benzo(ghi)perylene	7000		ug/kg	860	130	5
Fluorene	1400		ug/kg	1100	100	5
Phenanthrene	21000		ug/kg	640	130	5
Dibenzo(a,h)anthracene	1900		ug/kg	640	120	5
Indeno(1,2,3-cd)pyrene	5700		ug/kg	860	150	5
Pyrene	18000		ug/kg	640	110	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	41		23-120
2-Fluorobiphenyl	49		30-120
4-Terphenyl-d14	38		18-120

Project Name: SCHENECTADY 40 ANCHOR **Lab Num** 3

Project Number: 23.3588 **Report Date:** 09/12/24

SAMPLE RESULTS

Lab ID: L2450528-03
Client ID: TP-3
Sample Location: SCHENECTADY, NY

Date Collected: 09/05/24 11:15
Date Received: 09/05/24
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 09/11/24 15:15
Analyst: EK
Percent Solids: 80%

Extraction Method: EPA 3546
Extraction Date: 09/10/24 06:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	120	J	ug/kg	170	22.	1
Fluoranthene	760		ug/kg	120	24.	1
Benzo(a)anthracene	340		ug/kg	120	23.	1
Benzo(a)pyrene	200		ug/kg	170	51.	1
Benzo(b)fluoranthene	300		ug/kg	120	35.	1
Benzo(k)fluoranthene	81	J	ug/kg	120	33.	1
Chrysene	340		ug/kg	120	22.	1
Acenaphthylene	ND		ug/kg	170	32.	1
Anthracene	120		ug/kg	120	40.	1
Benzo(ghi)perylene	100	J	ug/kg	170	24.	1
Fluorene	380		ug/kg	210	20.	1
Phenanthrene	540		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	37	J	ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	77	J	ug/kg	170	29.	1
Pyrene	620		ug/kg	120	21.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	68		30-120
4-Terphenyl-d14	66		18-120

Project Name: SCHENECTADY 40 ANCHOR
Project Number: 23.3588
Lab Number: L2450528
Report Date: 09/12/24

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 09/11/24 01:41
Analyst: SLR

Extraction Method: EPA 3546
Extraction Date: 09/10/24 06:44

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1969533-1					
Acenaphthene	ND		ug/kg	130	17.
Fluoranthene	ND		ug/kg	99	19.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
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.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	77		10-136
4-Terphenyl-d14	89		18-120

REPORT 4

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR

Project Number: 23.3588

Lab Number: L2450528

Report Date: 09/12/24

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: WG1969533-2 WG1969533-3								
Acenaphthene	85		76		31-137	11		50
Fluoranthene	90		78		40-140	14		50
Benzo(a)anthracene	89		79		40-140	12		50
Benzo(a)pyrene	93		82		40-140	13		50
Benzo(b)fluoranthene	93		78		40-140	18		50
Benzo(k)fluoranthene	88		81		40-140	8		50
Chrysene	90		80		40-140	12		50
Acenaphthylene	84		71		40-140	17		50
Anthracene	90		78		40-140	14		50
Benzo(ghi)perylene	91		78		40-140	15		50
Fluorene	88		77		40-140	13		50
Phenanthrene	88		76		40-140	15		50
Dibenzo(a,h)anthracene	91		78		40-140	15		50
Indeno(1,2,3-cd)pyrene	92		79		40-140	15		50
Pyrene	90		77		35-142	16		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	91		77		25-120
Phenol-d6	91		78		10-120
Nitrobenzene-d5	82		69		23-120
2-Fluorobiphenyl	80		69		30-120
2,4,6-Tribromophenol	90		75		10-136
4-Terphenyl-d14	91		81		18-120

METALS

Project Name: SCHENECTADY 40 ANCHOR **Lab Number:** L2450528

Project Number: 23.3588 **Report Date:** 09/12/24

SAMPLE RESULTS

Lab ID: L2450528-01 Date Collected: 09/05/24 11:05
Client ID: TP-1 Date Received: 09/05/24
Sample Location: SCHENECTADY, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 74%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	2790		mg/kg	10.2	2.76	2	09/10/24 10:30	09/11/24 15:19	EPA 3050B	1,6010D	DMC
Antimony, Total	ND		mg/kg	5.12	0.389	2	09/10/24 10:30	09/11/24 15:19	EPA 3050B	1,6010D	DMC
Arsenic, Total	2.56		mg/kg	1.02	0.213	2	09/10/24 10:30	09/11/24 15:19	EPA 3050B	1,6010D	DMC
Barium, Total	13.1		mg/kg	1.02	0.178	2	09/10/24 10:30	09/11/24 15:19	EPA 3050B	1,6010D	DMC
Beryllium, Total	0.179	J	mg/kg	0.512	0.034	2	09/10/24 10:30	09/11/24 15:19	EPA 3050B	1,6010D	DMC
Cadmium, Total	ND		mg/kg	1.02	0.100	2	09/10/24 10:30	09/11/24 15:19	EPA 3050B	1,6010D	DMC
Calcium, Total	2160		mg/kg	10.2	3.58	2	09/10/24 10:30	09/11/24 15:19	EPA 3050B	1,6010D	DMC
Chromium, Total	5.11		mg/kg	1.02	0.098	2	09/10/24 10:30	09/11/24 15:19	EPA 3050B	1,6010D	DMC
Cobalt, Total	3.28		mg/kg	2.05	0.170	2	09/10/24 10:30	09/11/24 15:19	EPA 3050B	1,6010D	DMC
Copper, Total	7.70		mg/kg	1.02	0.264	2	09/10/24 10:30	09/11/24 15:19	EPA 3050B	1,6010D	DMC
Iron, Total	9870		mg/kg	5.12	0.924	2	09/10/24 10:30	09/11/24 15:19	EPA 3050B	1,6010D	DMC
Lead, Total	3.80	J	mg/kg	5.12	0.274	2	09/10/24 10:30	09/11/24 15:19	EPA 3050B	1,6010D	DMC
Magnesium, Total	1160		mg/kg	10.2	1.58	2	09/10/24 10:30	09/11/24 15:19	EPA 3050B	1,6010D	DMC
Manganese, Total	120		mg/kg	1.02	0.163	2	09/10/24 10:30	09/11/24 15:19	EPA 3050B	1,6010D	DMC
Mercury, Total	ND		mg/kg	0.085	0.056	1	09/10/24 11:00	09/11/24 16:17	EPA 7471B	1,7471B	JWN
Nickel, Total	6.79		mg/kg	2.56	0.248	2	09/10/24 10:30	09/11/24 15:19	EPA 3050B	1,6010D	DMC
Potassium, Total	290		mg/kg	256	14.7	2	09/10/24 10:30	09/11/24 15:19	EPA 3050B	1,6010D	DMC
Selenium, Total	ND		mg/kg	2.05	0.264	2	09/10/24 10:30	09/11/24 15:19	EPA 3050B	1,6010D	DMC
Silver, Total	ND		mg/kg	0.512	0.290	2	09/10/24 10:30	09/11/24 15:19	EPA 3050B	1,6010D	DMC
Sodium, Total	120	J	mg/kg	205	3.22	2	09/10/24 10:30	09/11/24 15:19	EPA 3050B	1,6010D	DMC
Thallium, Total	ND		mg/kg	2.05	0.322	2	09/10/24 10:30	09/11/24 15:19	EPA 3050B	1,6010D	DMC
Vanadium, Total	11.2		mg/kg	1.02	0.208	2	09/10/24 10:30	09/11/24 15:19	EPA 3050B	1,6010D	DMC
Zinc, Total	23.3		mg/kg	5.12	0.300	2	09/10/24 10:30	09/11/24 15:19	EPA 3050B	1,6010D	DMC

Project Name: SCHENECTADY 40 ANCHOR **Lab Number:** L2450528

Project Number: 23.3588 **Report Date:** 09/12/24

SAMPLE RESULTS

Lab ID: L2450528-02 Date Collected: 09/05/24 11:10
Client ID: TP-2 Date Received: 09/05/24
Sample Location: SCHENECTADY, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	3870		mg/kg	10.2	2.75	2	09/10/24 10:30	09/11/24 15:23	EPA 3050B	1,6010D	DMC
Antimony, Total	ND		mg/kg	5.09	0.387	2	09/10/24 10:30	09/11/24 15:23	EPA 3050B	1,6010D	DMC
Arsenic, Total	3.49		mg/kg	1.02	0.212	2	09/10/24 10:30	09/11/24 15:23	EPA 3050B	1,6010D	DMC
Barium, Total	72.8		mg/kg	1.02	0.177	2	09/10/24 10:30	09/11/24 15:23	EPA 3050B	1,6010D	DMC
Beryllium, Total	0.235	J	mg/kg	0.509	0.034	2	09/10/24 10:30	09/11/24 15:23	EPA 3050B	1,6010D	DMC
Cadmium, Total	ND		mg/kg	1.02	0.100	2	09/10/24 10:30	09/11/24 15:23	EPA 3050B	1,6010D	DMC
Calcium, Total	7510		mg/kg	10.2	3.56	2	09/10/24 10:30	09/11/24 15:23	EPA 3050B	1,6010D	DMC
Chromium, Total	9.06		mg/kg	1.02	0.098	2	09/10/24 10:30	09/11/24 15:23	EPA 3050B	1,6010D	DMC
Cobalt, Total	3.02		mg/kg	2.04	0.169	2	09/10/24 10:30	09/11/24 15:23	EPA 3050B	1,6010D	DMC
Copper, Total	19.3		mg/kg	1.02	0.263	2	09/10/24 10:30	09/11/24 15:23	EPA 3050B	1,6010D	DMC
Iron, Total	9770		mg/kg	5.09	0.920	2	09/10/24 10:30	09/11/24 15:23	EPA 3050B	1,6010D	DMC
Lead, Total	71.9		mg/kg	5.09	0.273	2	09/10/24 10:30	09/11/24 15:23	EPA 3050B	1,6010D	DMC
Magnesium, Total	1690		mg/kg	10.2	1.57	2	09/10/24 10:30	09/11/24 15:23	EPA 3050B	1,6010D	DMC
Manganese, Total	180		mg/kg	1.02	0.162	2	09/10/24 10:30	09/11/24 15:23	EPA 3050B	1,6010D	DMC
Mercury, Total	0.358		mg/kg	0.084	0.055	1	09/10/24 11:00	09/11/24 16:20	EPA 7471B	1,7471B	JWN
Nickel, Total	6.75		mg/kg	2.55	0.246	2	09/10/24 10:30	09/11/24 15:23	EPA 3050B	1,6010D	DMC
Potassium, Total	292		mg/kg	255	14.7	2	09/10/24 10:30	09/11/24 15:23	EPA 3050B	1,6010D	DMC
Selenium, Total	ND		mg/kg	2.04	0.263	2	09/10/24 10:30	09/11/24 15:23	EPA 3050B	1,6010D	DMC
Silver, Total	ND		mg/kg	0.509	0.288	2	09/10/24 10:30	09/11/24 15:23	EPA 3050B	1,6010D	DMC
Sodium, Total	119	J	mg/kg	204	3.21	2	09/10/24 10:30	09/11/24 15:23	EPA 3050B	1,6010D	DMC
Thallium, Total	ND		mg/kg	2.04	0.321	2	09/10/24 10:30	09/11/24 15:23	EPA 3050B	1,6010D	DMC
Vanadium, Total	10.9		mg/kg	1.02	0.207	2	09/10/24 10:30	09/11/24 15:23	EPA 3050B	1,6010D	DMC
Zinc, Total	115		mg/kg	5.09	0.298	2	09/10/24 10:30	09/11/24 15:23	EPA 3050B	1,6010D	DMC

Project Name: SCHENECTADY 40 ANCHOR **Lab Number:** L2450528

Project Number: 23.3588 **Report Date:** 09/12/24

SAMPLE RESULTS

Lab ID: L2450528-03 Date Collected: 09/05/24 11:15
Client ID: TP-3 Date Received: 09/05/24
Sample Location: SCHENECTADY, NY Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 80%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Aluminum, Total	4300		mg/kg	9.78	2.64	2	09/10/24 10:30	09/11/24 16:03	EPA 3050B	1,6010D	DMC
Antimony, Total	ND		mg/kg	4.89	0.372	2	09/10/24 10:30	09/11/24 16:03	EPA 3050B	1,6010D	DMC
Arsenic, Total	2.08		mg/kg	0.978	0.204	2	09/10/24 10:30	09/11/24 16:03	EPA 3050B	1,6010D	DMC
Barium, Total	19.1		mg/kg	0.978	0.170	2	09/10/24 10:30	09/11/24 16:03	EPA 3050B	1,6010D	DMC
Beryllium, Total	0.274	J	mg/kg	0.489	0.032	2	09/10/24 10:30	09/11/24 16:03	EPA 3050B	1,6010D	DMC
Cadmium, Total	ND		mg/kg	0.978	0.096	2	09/10/24 10:30	09/11/24 16:03	EPA 3050B	1,6010D	DMC
Calcium, Total	8550		mg/kg	9.78	3.42	2	09/10/24 10:30	09/11/24 16:03	EPA 3050B	1,6010D	DMC
Chromium, Total	4.89		mg/kg	0.978	0.094	2	09/10/24 10:30	09/11/24 16:03	EPA 3050B	1,6010D	DMC
Cobalt, Total	3.43		mg/kg	1.96	0.162	2	09/10/24 10:30	09/11/24 16:03	EPA 3050B	1,6010D	DMC
Copper, Total	11.4		mg/kg	0.978	0.252	2	09/10/24 10:30	09/11/24 16:03	EPA 3050B	1,6010D	DMC
Iron, Total	10200		mg/kg	4.89	0.884	2	09/10/24 10:30	09/11/24 16:03	EPA 3050B	1,6010D	DMC
Lead, Total	9.10		mg/kg	4.89	0.262	2	09/10/24 10:30	09/11/24 16:03	EPA 3050B	1,6010D	DMC
Magnesium, Total	1570		mg/kg	9.78	1.51	2	09/10/24 10:30	09/11/24 16:03	EPA 3050B	1,6010D	DMC
Manganese, Total	331		mg/kg	0.978	0.156	2	09/10/24 10:30	09/11/24 16:03	EPA 3050B	1,6010D	DMC
Mercury, Total	ND		mg/kg	0.081	0.053	1	09/10/24 11:00	09/11/24 16:23	EPA 7471B	1,7471B	JWN
Nickel, Total	7.99		mg/kg	2.45	0.237	2	09/10/24 10:30	09/11/24 16:03	EPA 3050B	1,6010D	DMC
Potassium, Total	339		mg/kg	245	14.1	2	09/10/24 10:30	09/11/24 16:03	EPA 3050B	1,6010D	DMC
Selenium, Total	ND		mg/kg	1.96	0.252	2	09/10/24 10:30	09/11/24 16:03	EPA 3050B	1,6010D	DMC
Silver, Total	ND		mg/kg	0.489	0.277	2	09/10/24 10:30	09/11/24 16:03	EPA 3050B	1,6010D	DMC
Sodium, Total	62.8	J	mg/kg	196	3.08	2	09/10/24 10:30	09/11/24 16:03	EPA 3050B	1,6010D	DMC
Thallium, Total	ND		mg/kg	1.96	0.308	2	09/10/24 10:30	09/11/24 16:03	EPA 3050B	1,6010D	DMC
Vanadium, Total	9.78		mg/kg	0.978	0.199	2	09/10/24 10:30	09/11/24 16:03	EPA 3050B	1,6010D	DMC
Zinc, Total	25.9		mg/kg	4.89	0.287	2	09/10/24 10:30	09/11/24 16:03	EPA 3050B	1,6010D	DMC

Project Name: SCHENECTADY 40 ANCHOR **Lab Number:** L2450528

Project Number: 23.3588 **Report Date:** 09/12/24

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: WG1969489-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	09/10/24 10:30	09/11/24 15:11	1,6010D	DMC
Antimony, Total	ND		mg/kg	2.00	0.152	1	09/10/24 10:30	09/11/24 15:11	1,6010D	DMC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	09/10/24 10:30	09/11/24 15:11	1,6010D	DMC
Barium, Total	ND		mg/kg	0.400	0.070	1	09/10/24 10:30	09/11/24 15:11	1,6010D	DMC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	09/10/24 10:30	09/11/24 15:11	1,6010D	DMC
Cadmium, Total	ND		mg/kg	0.400	0.039	1	09/10/24 10:30	09/11/24 15:11	1,6010D	DMC
Calcium, Total	ND		mg/kg	4.00	1.40	1	09/10/24 10:30	09/11/24 15:11	1,6010D	DMC
Chromium, Total	ND		mg/kg	0.400	0.038	1	09/10/24 10:30	09/11/24 15:11	1,6010D	DMC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	09/10/24 10:30	09/11/24 15:11	1,6010D	DMC
Copper, Total	0.117	J	mg/kg	0.400	0.103	1	09/10/24 10:30	09/11/24 15:11	1,6010D	DMC
Iron, Total	0.765	J	mg/kg	2.00	0.361	1	09/10/24 10:30	09/11/24 15:11	1,6010D	DMC
Lead, Total	ND		mg/kg	2.00	0.107	1	09/10/24 10:30	09/11/24 15:11	1,6010D	DMC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	09/10/24 10:30	09/11/24 15:11	1,6010D	DMC
Manganese, Total	ND		mg/kg	0.400	0.064	1	09/10/24 10:30	09/11/24 15:11	1,6010D	DMC
Nickel, Total	ND		mg/kg	1.00	0.097	1	09/10/24 10:30	09/11/24 15:11	1,6010D	DMC
Potassium, Total	ND		mg/kg	100	5.76	1	09/10/24 10:30	09/11/24 15:11	1,6010D	DMC
Selenium, Total	ND		mg/kg	0.800	0.103	1	09/10/24 10:30	09/11/24 15:11	1,6010D	DMC
Silver, Total	ND		mg/kg	0.200	0.113	1	09/10/24 10:30	09/11/24 15:11	1,6010D	DMC
Sodium, Total	ND		mg/kg	80.0	1.26	1	09/10/24 10:30	09/11/24 15:11	1,6010D	DMC
Thallium, Total	ND		mg/kg	0.800	0.126	1	09/10/24 10:30	09/11/24 15:11	1,6010D	DMC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	09/10/24 10:30	09/11/24 15:11	1,6010D	DMC
Zinc, Total	ND		mg/kg	2.00	0.117	1	09/10/24 10:30	09/11/24 15:11	1,6010D	DMC

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: WG1969492-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	09/10/24 11:00	09/11/24 15:57	1,7471B	JWN

Project Name: SCHENECTADY 40 ANCHOR **Lab Number:** L2450528

Project Number: 23.3588 **Report Date:** 09/12/24

Method Blank Analysis
Batch Quality Control

Prep Information

Digestion Method: EPA 7471B

REPORT 4

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR

Project Number: 23.3588

Lab Number: L2450528

Report Date: 09/12/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1969489-2								
Aluminum, Total	94		-		80-120	-		
Antimony, Total	100		-		80-120	-		
Arsenic, Total	92		-		80-120	-		
Barium, Total	97		-		80-120	-		
Beryllium, Total	98		-		80-120	-		
Cadmium, Total	98		-		80-120	-		
Calcium, Total	98		-		80-120	-		
Chromium, Total	100		-		80-120	-		
Cobalt, Total	100		-		80-120	-		
Copper, Total	100		-		80-120	-		
Iron, Total	99		-		80-120	-		
Lead, Total	95		-		80-120	-		
Magnesium, Total	100		-		80-120	-		
Manganese, Total	96		-		80-120	-		
Nickel, Total	101		-		80-120	-		
Potassium, Total	102		-		80-120	-		
Selenium, Total	94		-		80-120	-		
Silver, Total	99		-		80-120	-		
Sodium, Total	102		-		80-120	-		
Thallium, Total	91		-		80-120	-		
Vanadium, Total	100		-		80-120	-		

REPORT 4

Lab Control Sample Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR

Project Number: 23.3588

Lab Number: L2450528

Report Date: 09/12/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1969489-2					
Zinc, Total	100	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1969492-2					
Mercury, Total	97	-	80-120	-	

REPORT 4

Matrix Spike Analysis
Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR
Project Number: 23.3588

Lab Number: L2450528
Report Date: 09/12/24

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: WG1969489-3 QC Sample: L2451351-09 Client ID: MS Sample												
Aluminum, Total	7460	222	8650	**536**	Q	-	-		75-125	-		20
Antimony, Total	ND	55.4	49.0	88		-	-		75-125	-		20
Arsenic, Total	2.81	13.3	17.8	113		-	-		75-125	-		20
Barium, Total	53.5	222	257	92		-	-		75-125	-		20
Beryllium, Total	0.216J	5.54	5.48	99		-	-		75-125	-		20
Cadmium, Total	ND	5.88	4.63	79		-	-		75-125	-		20
Calcium, Total	89400	1110	96600	**649**	Q	-	-		75-125	-		20
Chromium, Total	19.2	22.2	41.6	101		-	-		75-125	-		20
Cobalt, Total	2.75	55.4	50.7	86		-	-		75-125	-		20
Copper, Total	12.1	27.7	40.8	104		-	-		75-125	-		20
Iron, Total	9420	111	10800	**1240**	Q	-	-		75-125	-		20
Lead, Total	182	58.8	326	**245**	Q	-	-		75-125	-		20
Magnesium, Total	6030	1110	7510	**133**	Q	-	-		75-125	-		20
Manganese, Total	134	55.4	211	**139**	Q	-	-		75-125	-		20
Nickel, Total	10.2	55.4	60.1	90		-	-		75-125	-		20
Potassium, Total	1760	1110	2540	**70**	Q	-	-		75-125	-		20
Selenium, Total	ND	13.3	14.5	109		-	-		75-125	-		20
Silver, Total	ND	5.54	5.53	100		-	-		75-125	-		20
Sodium, Total	838	1110	1550	**64**	Q	-	-		75-125	-		20
Thallium, Total	0.676J	13.3	13.4	101		-	-		75-125	-		20
Vanadium, Total	22.6	55.4	77.7	99		-	-		75-125	-		20

REPORT 4

Matrix Spike Analysis
Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR
Project Number: 23.3588

Lab Number: L2450528
Report Date: 09/12/24

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: WG1969489-3 QC Sample: L2451351-09 Client ID: MS Sample									
Zinc, Total	50.3	55.4	107	102	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1969492-3 QC Sample: L2451351-09 Client ID: MS Sample									
Mercury, Total	ND	1.8	1.78	99	-	-	80-120	-	20

REPORT 4

Lab Duplicate Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR

Project Number: 23.3588

Lab Number: L2450528

Report Date: 09/12/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1969489-4 QC Sample: L2451351-09 Client ID: DUP Sample						
Aluminum, Total	7460	7550	mg/kg	1		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	2.81	3.01	mg/kg	7		20
Barium, Total	53.5	56.3	mg/kg	5		20
Beryllium, Total	0.216J	0.253J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	89400	91300	mg/kg	2		20
Chromium, Total	19.2	19.3	mg/kg	1		20
Cobalt, Total	2.75	2.97	mg/kg	8		20
Copper, Total	12.1	12.3	mg/kg	2		20
Iron, Total	9420	9270	mg/kg	2		20
Lead, Total	182	185	mg/kg	2		20
Magnesium, Total	6030	6100	mg/kg	1		20
Manganese, Total	134	148	mg/kg	10		20
Nickel, Total	10.2	10.2	mg/kg	0		20
Potassium, Total	1760	1760	mg/kg	0		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	838	773	mg/kg	8		20

REPORT 4

Lab Duplicate Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR

Project Number: 23.3588

Lab Number: L2450528

Report Date: 09/12/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1969489-4 QC Sample: L2451351-09 Client ID: DUP Sample					
Thallium, Total	0.676J	0.634J	mg/kg	NC	20
Vanadium, Total	22.6	22.7	mg/kg	0	20
Zinc, Total	50.3	52.1	mg/kg	4	20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1969492-4 QC Sample: L2451351-09 Client ID: DUP Sample					
Mercury, Total	ND	ND	mg/kg	NC	20

REPORT 4

Lab Serial Dilution Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR
Project Number: 23.3588

Lab Number: L2450528
Report Date: 09/12/24

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1969489-6 QC Sample: L2451351-09 Client ID: DUP Sample						
Manganese, Total	134	143	mg/kg	7		20

INORGANICS
&
MISCELLANEOUS

Project Name: SCHENECTADY 40 ANCHOR
Lab Number: L2450528
Project Number: 23.3588
Report Date: 09/12/24

SAMPLE RESULTS

Lab ID: L2450528-01
Client ID: TP-1
Sample Location: SCHENECTADY, NY
Sample Depth:
Matrix: Soil

Date Collected: 09/05/24 11:05
Date Received: 09/05/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.8		%	0.100	NA	1	-	09/06/24 12:48	121,2540G	ROI

Project Name: SCHENECTADY 40 ANCHOR
Lab Number: L2450528
Project Number: 23.3588
Report Date: 09/12/24

SAMPLE RESULTS

Lab ID: L2450528-02
Client ID: TP-2
Sample Location: SCHENECTADY, NY
Sample Depth:
Matrix: Soil

Date Collected: 09/05/24 11:10
Date Received: 09/05/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.5		%	0.100	NA	1	-	09/06/24 12:48	121,2540G	ROI

Project Name: SCHENECTADY 40 ANCHOR
Lab Number: L2450528
Project Number: 23.3588
Report Date: 09/12/24

SAMPLE RESULTS

Lab ID: L2450528-03
Client ID: TP-3
Sample Location: SCHENECTADY, NY
Sample Depth:
Matrix: Soil

Date Collected: 09/05/24 11:15
Date Received: 09/05/24
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	79.6		%	0.100	NA	1	-	09/06/24 12:48	121,2540G	ROI

REPORT 4

Lab Duplicate Analysis

Batch Quality Control

Project Name: SCHENECTADY 40 ANCHOR

Project Number: 23.3588

Lab Number: L2450528

Report Date: 09/12/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1968361-1 QC Sample: L2450528-01 Client ID: TP-1						
Solids, Total	73.8	73.5	%	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(*)
L2450528-01A	Vial MeOH preserved	A	NA		4.8	Y	Absent		NYTCL-8260HLW-R2(14)
L2450528-01B	Vial water preserved	A	NA		4.8	Y	Absent	06-SEP-24 09:02	NYTCL-8260HLW-R2(14)
L2450528-01C	Vial water preserved	A	NA		4.8	Y	Absent	06-SEP-24 09:02	NYTCL-8260HLW-R2(14)
L2450528-01D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.8	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),FE-TI(180),MN-TI(180),K-TI(180),CA-TI(180),NA-TI(180),CD-TI(180)
L2450528-01E	Plastic 2oz unpreserved for TS	A	NA		4.8	Y	Absent		TS(7)
L2450528-01F	Plastic 120ml unpreserved	A	NA		4.8	Y	Absent		TS(7)
L2450528-01G	Glass 120ml/4oz unpreserved	A	NA		4.8	Y	Absent		NYCP51-PAH(14)
L2450528-02A	Vial MeOH preserved	A	NA		4.8	Y	Absent		NYTCL-8260HLW-R2(14)
L2450528-02B	Vial water preserved	A	NA		4.8	Y	Absent	06-SEP-24 09:02	NYTCL-8260HLW-R2(14)
L2450528-02C	Vial water preserved	A	NA		4.8	Y	Absent	06-SEP-24 09:02	NYTCL-8260HLW-R2(14)
L2450528-02D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.8	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),SE-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),K-TI(180),CA-TI(180),CD-TI(180),NA-TI(180)
L2450528-02E	Plastic 2oz unpreserved for TS	A	NA		4.8	Y	Absent		TS(7)
L2450528-02F	Plastic 120ml unpreserved	A	NA		4.8	Y	Absent		TS(7)
L2450528-02G	Glass 120ml/4oz unpreserved	A	NA		4.8	Y	Absent		NYCP51-PAH(14)
L2450528-03A	Vial MeOH preserved	A	NA		4.8	Y	Absent		NYTCL-8260HLW-R2(14)
L2450528-03B	Vial water preserved	A	NA		4.8	Y	Absent	06-SEP-24 09:02	NYTCL-8260HLW-R2(14)
L2450528-03C	Vial water preserved	A	NA		4.8	Y	Absent	06-SEP-24 09:02	NYTCL-8260HLW-R2(14)

*Values in parentheses indicate holding time in days

Project Name: SCHENECTADY 40 ANCHOR

Project Number: 23.3588

REPORT 4

Lab Number: L2450528

Report Date: 09/12/24

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2450528-03D	Metals Only-Glass 60mL/2oz unpreserved	A	NA		4.8	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),PB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2450528-03E	Plastic 2oz unpreserved for TS	A	NA		4.8	Y	Absent		TS(7)
L2450528-03F	Plastic 120ml unpreserved	A	NA		4.8	Y	Absent		TS(7)
L2450528-03G	Glass 120ml/4oz unpreserved	A	NA		4.8	Y	Absent		NYCP51-PAH(14)

*Values in parentheses indicate holding time in days

Project Name: SCHENECTADY 40 ANCHOR **Lab Number:** L2450528

Project Number: 23.3588 **Report Date:** 09/12/24

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

Project Name:	SCHENECTADY 40 ANCHOR	**Lab Number:**	L2450528
Project Number:	23.3588	**Report Date:**	09/12/24

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.

Chlordane: 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.)

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'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

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 for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

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

Report Format: DU Report with 'J' Qualifiers

Project Name: SCHENECTADY 40 ANCHOR **Lab Number:** L2450528

Project Number: 23.3588 **Report Date:** 09/12/24

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

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 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.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: SCHENECTADY 40 ANCHOR
Project Number: 23.3588
Lab Number: L2450528
Report Date: 09/12/24

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 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Nonpotable Water: EPA RSK-175 Dissolved 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 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).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**

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, EPA 537.1.

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

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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: 9/6/24

ALPHA Job #: L2450528

Client Information
Client: CT Male Associates
Address: 50 Century Hill Dr.
Latham, NY 12110
Phone: ~~786~~ 518 786 7400
Fax:
Email: a.smith@ctmale.com

Project Information
Project Name: Schenectady 40 Anchor
Project Location: Schenectady, NY
Project # 23.3588
(Use Project name as Project #)
Project Manager: Aimee Smith
ALPHAQuote #:

Turn-Around Time
Standard [X] Due Date:
Rush (only if pre approved) [ ] # of Days:

Deliverables
[ ] ASP-A [X] ASP-B
[X] EQuIS (1 File) [ ] EQuIS (4 File)
[ ] Other

Regulatory Requirement
[ ] NY TOGS [ ] NY Part 375
[ ] AWQ Standards [ ] NY CP-51
[ ] NY Restricted Use [ ] Other
[ ] NY Unrestricted Use
[ ] NYC Sewer Discharge

Billing Information
[X] Same as Client Info
PO # 23.3588

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:
Total Solids container count in total. TCL & CP-51 VOCs by 8260 needed

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	CP-51 VOCs by 8260 and TCL	CP-51 SVOCs by 8270	TAL Metals	Sample Specific Comments	Total # Bottles
50528-01	TP-1	9/5/24	1105	S	AR	X	X	X		7
02	TP-2	↓	1110	S	AR	X	X	X		7
03	TP-3	↓	1115	S	AR	X	X	X		7

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	V/P	A	A/P							
Preservative	F/A	A	A							

Relinquished By:	Date/Time	Received By:	Date/Time
AMY	9/5/24 1205	Jr Cooley PACE	9/5/24 12:05
	9/6 120	Julie	9/5 2200
			9/6/24 1:20

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)

REPORT 4

Quantitation Report (QT Reviewed)

Data Path : K:\VOA110\2024\240911N\
Data File : V10240911N12.D
Acq On : 12 Sep 2024 2:01 am
Operator : VOA110:JIC
Sample : L2450528-03,31,5.94,5,,B,32.66,39.10,0.50
Misc : WG1970749,ICAL21435
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 12 09:17:18 2024
Quant Method : K:\VOA110\2024\240911N\V110_240829T_8260.m
Quant Title : VOLATILES BY GC/MS
QLast Update : Fri Aug 30 10:17:56 2024
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox11N01.D•

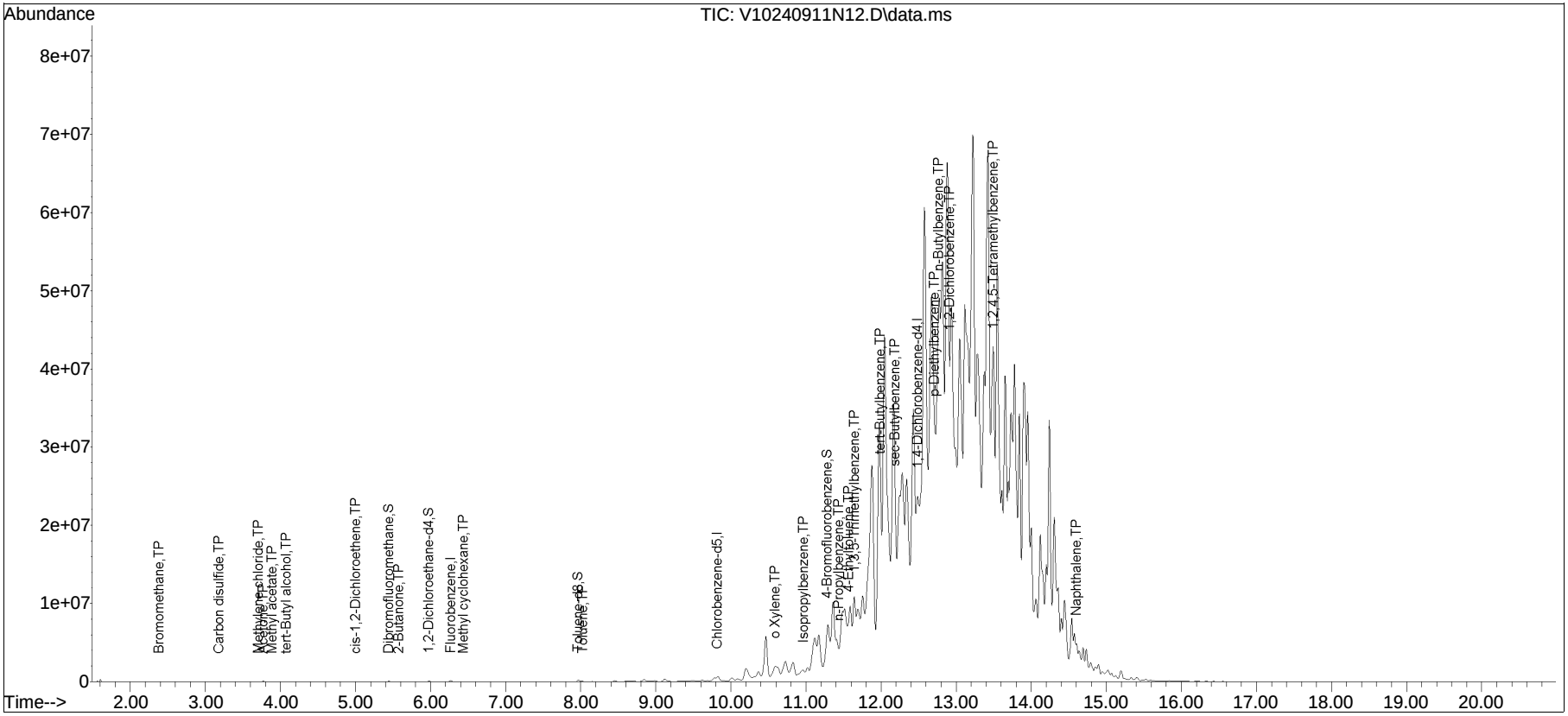


EXHIBIT 6

NYSDEC SPILL RECORD SHEET FOR SPILL No. 2300878

An official website of New York State.
Here's how you know

NYS Department of Environmental Conservation
DER Environmental Remediation Databases

Details from Spill Incidents Database Search

Spill Record

Administrative Information

DEC Region: 4
Spill Number: 2300878

Spill Date/Time

Spill Date: 05/02/2023
Spill Time: 12:46:00 PM
Call Received Date: 05/02/2023
Call Received Time: 12:46:00 PM

Location

Spill Name: SOIL
Address: 754 STATE STREET
City: SCHENECTADY
County: Schenectady

Spill Description

Material Spilled	Amount Spilled	Resource Affected
unknown petroleum	Unknown	Soil

Cause: Other

Source: Commercial/Industrial

Waterbody:

Record Close

Date Spill Closed: Not Closed

If you have questions about this reported incident, please contact the Regional Office where the incident occurred.

Refine This Search

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