

July 31, 2024

Susi Yu  
NYM 145 Wolcott, LLC c/o Bungalow Projects  
233 Broadway, 10<sup>th</sup> Floor  
New York, NY 10279  
syu@bungalowre.com

**Re: Preliminary Waste Characterization Report  
145-165 Wolcott Street  
Brooklyn, New York 11231  
Langan Project No.: 170562203**

Dear Susi,

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) prepared this Preliminary Waste Characterization Report in support of your proposed studio/soundstage redevelopment project located on Block 574, Lots 1, 23, and 24 in Brooklyn, New York (the site). The purpose of the waste characterization investigation was to: 1) provide information to assist in evaluating construction costs related to the handling and disposal of excess soil generated during the site remediation and redevelopment; and 2) assist the selected remediation contractor (the Contractor) in obtaining off-site receiving facility pre-approvals for disposal of excavated material.

This report documents soil characterization and includes a description of the site background and sampling methodology, a sample location map, a sample summary, tabulated summaries of analytical results, boring logs, and laboratory analytical data packages. Additional sampling may be necessary to comply with the sampling frequency and analytical requirements of Contractor-selected disposal facilities. Any additional sampling and laboratory testing will be the responsibility of the excavation contractor.

## **BACKGROUND**

### **Site Description**

The approximately 80,000-square-foot (1.84-acre) site is located at 145-165 Wolcott Street in the Red Hook neighborhood of Brooklyn, New York, and is identified on the Kings County Tax Map as Tax Block 574, Lots 1, 23, and 24. The site is bound by Ferris Street followed by vacant lots to the northwest; Wolcott Street followed by mixed-use commercial and light industrial properties to the northeast; Conover Street followed by mixed-use institutional and commercial properties to the southeast; and mixed-use residential and commercial buildings followed by Dikeman Street and mixed-use residential and industrial buildings to the southwest. A Site Location Map is attached as Figure 1.

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## Environmental History

The site has a protracted history of industrial and commercial usage, including oil resin manufacturing (1886), engine manufacturing and boiler repair (1904), transformer use (1915), commercial vehicle repair and petroleum bulk storage (1938-2016), lumber storage (1950-1992), commercial waste recycling (1993-2012), school bus parking and maintenance (2002-2016), and retail and commercial vehicle storage (2020-2022). The site was also used as a vehicle disassembly facility in the early 1940s, during which military vehicles were coated with the petroleum-based wax sealant cosmoline prior to overseas shipment. Residences were located on Lots 23 and 24 between 1886 and 1969. The former warehouse building on Lot 1 was demolished between November 2022 and February 2023. The concrete slab of the former building remains in place.

Historical records indicate that the site contained six historical petroleum underground storage tanks (UST), which were either closed-in-place or removed by 2003. Five inactive fuel oil and kerosene aboveground storage tanks (AST) were closed and removed from inside the former building, and one inactive, concrete-encased diesel AST was closed and removed from the area north of the former building in May 2022. The tanks were administratively closed under NYSDEC Petroleum Bulk Storage Facility ID No. 2-600048. The site is enrolled in the NYSDEC Brownfield Cleanup Program (BCP) and identified as Site No. C224246.

## Previous Investigations

Previous environmental investigations have identified site-wide contamination associated with the historical use of the site as an oil and tar manufacturer, chemical manufacturer, boiler manufacturer, army vehicle disassembly facility, and transportation depot (including storage and repair of school buses). Primary contaminants of concern include petroleum-related volatile organic compounds (VOC), semivolatile organic compounds (SVOC), metals, and pesticides in soil; petroleum-related VOCs, SVOCs, chlorinated volatile organic compounds (CVOC) (specifically, 1,2-dichloroethane [1,2-DCA]), metals, and per- and polyfluoroalkyl substances (PFAS) in groundwater; and petroleum-related VOCs and CVOCs in soil vapor.

The following investigation reports have been prepared for the site:

- ASTM Certified Environmental Site Assessment: 145-165 Wolcott Street, prepared by Volumetric Techniques, Ltd. (VT), dated February 9, 2015
- Letter: Re: Limited Subsurface Investigation, prepared by John Eichler of PWGC, sent to Gregory Lovine of 145-65 Wolcott St. Realty Corp. on August 22, 2018
- Letter: Re: Remedial Investigation, prepared by Kris Almskog of PWGC, sent to Steven Scharf of NYSDEC on November 11, 2020
- Phase I Remedial Investigation Report, prepared by PWGC on behalf of Red Hook JV LLC, dated April 19, 2021
- Phase II Remedial Investigation Report, prepared by Langan, dated October 2022
- Geotechnical Engineering Study Report, prepared by Langan, dated May 17, 2024.

The May 17, 2024 Geotechnical Engineering Study Report is provided as Attachment 1. The environmental documents are available in NYSDEC's online repository at the link below:

<https://extapps.dec.ny.gov/data/DecDocs/C224256/>

Information in these documents should be considered in conjunction with the findings of this waste characterization study when characterizing excavated material.

### **Proposed Redevelopment**

The site will be redeveloped with an industrial facility used for film and television production that will include a multi-story building with soundstages, production support, and ancillary office spaces with subgrade parking.<sup>1</sup> The new building occupy the entire site footprint. The proposed redevelopment plans are provided as Attachment 2.

Anticipated excavation areas and depths for the proposed redevelopment include:

- Excavation to about 4 to 7 feet below ground surface (bgs) (about elevation<sup>2</sup> [el] 7) to accommodate construction of an about 73,800 square-foot subgrade level across the site.
- Excavation up to 4 feet bgs (about el 13 to 10) to accommodate construction of an about 6,200 square-foot slab-on-grade area in the southwestern part of the site.
- Excavation to about 10 to 13 feet bgs (about el 1.5 to 0.5) to accommodate construction of an elevator pit and detention tanks in the northwestern and central parts of the site.
- Excavation to about 8 to 12 feet bgs (about el 5 to -1) to remove petroleum-impacted soil in the southeastern part of the site
- Excavation to about 12 to 16 feet bgs (about el 0 to -3) to remove tar-like material in the northwestern part of the site.

Based on the anticipated excavations, an estimated total of 20,300 cubic yards (about 32,480 tons) of soil/fill will be removed as a part of the site redevelopment.

### **FIELD INVESTIGATION**

Langan completed waste characterization soil sampling between 13 and 21 June 2024. Coastal Environmental Services, Inc. of Holbrook, New York (Coastal) advanced 68 soil borings using either a track-mounted Geoprobe 6011 DT or Geoprobe 7822 DT direct-push drill rig. Langan characterized and documented the borings and collected soil samples. Soil boring locations are shown on Figure 2.

### **Soil Boring Methodology**

Coastal advanced 68 soil borings at targeted locations to depths between 5 and 20 feet bgs, as summarized below:

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<sup>1</sup> Based on the May 31, 2024 NYC DOB filing set.

<sup>2</sup> Elevations presented herein are in feet relative to the North American Vertical Datum of 1988 (NAVD88).

- Soil borings advanced to about 5 feet bgs – WC01A, WC01B, WC01C, WC01D, WC02A, WC02B, WC02C, WC02D, WC03A, WC03D, WC05A, WC05B, WC05C, WC05D, WC06A, WC06B, WC07A, WC08D, WC09C, WC09D, WC10A, WC10B, WC10C, WC10D, WC13A, WC13B, WC13C, WC13D, WC13E, and WC13F.
- Soil borings advanced to about 10 feet bgs – WC07B, WC07C, WC07D, WC07E, WC08A, WC11C, WC11D, WC12C, WC12D, WC12E, WC14A, WC14B, WC14C, and WC14D to about 10 feet bgs
- Soil borings advanced to about 15 feet bgs – WC03B, WC03C, WC04A, WC04B, WC04C, WC04D, WC06C, WC06D, WC06E, WC06F, WC08B, WC8C, WC09A, WC09B, WC11A, WC11B, WC12A, and WC12B to about 15 feet bgs
- Soil borings advanced to about 20 feet bgs – WC15A, WC15B, WC15C, WC15D, WC15E, and WC15F to about 20 feet bgs

Soil borings were advanced using either a Geoprobe 6011 DT or Geoprobe 7822 direct-push drill rig from grade surface to the respective boring termination depth. Soil samples were collected into MacroCore samplers lined with 5-foot-long dedicated acetate sleeves. Extracted soil was screened with a photoionization detector equipped with a 10.6 electron volt lamp, inspected for visual and olfactory evidence of contamination, and classified by Langan field personnel. After sample collection, soil borings were backfilled with inert soil cuttings and No. 2 sand. Soil boring logs are provided in Attachment 3.

### **Soil Sampling Methodology**

The site was divided into 15 waste characterization sampling areas (WC01 through WC15), each containing four soil borings to characterize soil/fill to anticipated excavation depths. In addition, six waste characterization sample sets were collected from borings where grossly impacted soil/fill was observed (WC16 through WC21). A total of 31 grab samples and five-point composite samples were collected and submitted for laboratory analysis. An additional 139 grab soil samples were collected and placed on hold with the laboratory for potential analysis pending the preliminary sample analytical results. Up to seven grab soil samples were collected for laboratory analysis from each boring location. Grab soil samples were collected using Terra Core™ sampling kits from the depth interval exhibiting the greatest visual, olfactory, and instrumental evidence of a chemical or petroleum release (if observed). The composite soil samples were created by homogenizing five discrete grab samples from between two and five soil borings.

Soil samples were containerized in laboratory-supplied glassware, placed in ice-chilled coolers, transported under standard chain-of-custody protocol via courier service to Pace Analytical Laboratories, Inc., a New York State Department of Health Environmental Laboratory Approval Program-certified laboratory (ID No. 11148) in Westborough, Massachusetts. A sample collection summary is provided as Table 1.

### **Laboratory Analyses**

Grab samples were analyzed for the following parameters:



- Target compound list (TCL)/NYSDEC 6 NYCRR Part 375-list, New Jersey Department of Environmental Protection (NJDEP), and Pennsylvania Department of Environmental (PADEP) VOCs.
- NJDEP Extractable Petroleum Hydrocarbons (EPH)

Two grab samples, WC09A\_GRAB\_7-9 and WC15E\_GRAB\_4-6, were analyzed for the following additional parameters:

- Toxicity Characteristic Leaching Procedure (TCLP) VOCs

Composite soil samples were analyzed for the following parameters:

- TCL/NYSDEC Part 375, NJDEP, and PADEP SVOCs
- Polychlorinated biphenyls (PCB)
- Pesticides
- Herbicides
- Target Analyte List (TAL) metals (including total cyanide and hexavalent/trivalent chromium)
- TCLP metals
- Resource Conservation and Recovery Act (RCRA) characteristics

Two composite samples, WC17\_COMP\_4-9 and WC21\_COMP\_0-6, were analyzed for the following additional parameters:

- TCLP SVOCs, Pesticides, Herbicides and Metals.

## **FIELD OBSERVATIONS AND ANALYTICAL RESULTS**

### **Subsurface Observations**

The site stratigraphy consists of non-native fill underlain by a discontinuous layer of clay and silt underlain by sand. The non-native fill layer is comprised of sand, gravel, silt, and clay with varying amounts of concrete, brick, wood, tar, coal, coal ash, slag, plastic, metal, immiscible fluids, rubber, asphalt, organics, and glass extending from surface grade to about 5 to 15 feet bgs<sup>3</sup>. In borings where the non-native fill layer did not extend to the boring termination depth, the fill was underlain by native soil consisting of sand and silt with varying amounts of gravel. Bedrock was not encountered during the waste characterization (maximum boring depth was 20 feet bgs). Depth to groundwater depth varies between 7.7 and 12.7 ft bgs.

Field evidence of petroleum impacts was observed in soil borings WC03B, WC03C, WC03D, WC04A, WC04D, WC06C, WC06D, WC06E, WC08A, WC08B, WC08C, WC09A, WC09B, WC11B, WC11D, WC12A, WC12B, WC14A, WC14B, WC15A, WC15C, WC15E, and WC15F. Field evidence of tar impacts was observed in borings WC01B, WC01C, WC01D, WC02D,

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<sup>3</sup> Based on observations from waste characterization soil borings and the May 17, 2024 Geotechnical Engineering Study Report, prepared by Langan (Attachment 1).

WC06A, WC06D, WC11A, WC11C, WC14A, WC15A, and WC15B. A summary of the sample areas, observations of tar and/or petroleum impacts, and maximum depths of observed impacts is provided in the table below.

<b>Grid</b>	<b>Observations of Tar and/or Petroleum Impacts</b>	<b>Maximum Depth of Observed Impacts</b>
WC01	Tar-like material, max PID reading of 25.4 PPM.	2.5 ft bgs
WC02	Tar-like material, max PID reading of 222.3 PPM.	3.5 ft bgs
WC03	Petroleum and/or tar-impacts to soil, max PID reading of 60.0 PPM	13.5 ft bgs
WC04	Petroleum and/or tar-impacts to soil, max PID reading of 252.4 PPM	14 ft bgs
WC06	Tar-like material, petroleum and/or tar-impacts to soil, max PID reading of 61.7 PPM.	14 ft bgs
WC08	Petroleum and/or tar-impacts to soil, max PID reading of 80.0 PPM	13 ft bgs
WC09	Petroleum and/or tar-impacts to soil, max PID reading of 306.0 PPM	13.5 ft bgs
WC11	Tar-like material, petroleum and/or tar-impacts to soil, max PID reading of 22.7 PPM.	14 ft bgs
WC12	Petroleum and/or tar-impacts to soil, max PID reading of 86.5 PPM	12 ft bgs
WC14	Tar-like material, petroleum and/or tar-impacts to soil, max PID reading of 38.4 PPM. .	8 ft bgs
WC15	Tar-like material, petroleum and/or tar-impacts to soil, max PID reading of 68.4 PPM.	20 ft bgs

Detailed observations are included in soil boring logs are provided in Attachment 3.

### **Soil Analytical Results**

Laboratory analytical results were compared to the following criteria:

- The lower of NYSDEC 6 NYCRR Part 375-6.8(b) Protection of Groundwater (PGW) and Restricted Use Residential (RUR) SCOs for a general fill classification, in accordance with the 6 NYCRR Part 360 regulations for solid waste management.

- NJDEP Soil Remediation Standards (SRS) – Ingestion/Dermal and Inhalation Exposure Pathway – Residential (RDCSRS)/Non-Residential (NRDSRS) and NJDEP SRS – Migration to Groundwater Exposure Pathway (MGWSRS)
- Pennsylvania Department of Environmental Protection (PADEP) Medium Specific Concentrations (MSC) including the PADEP Clean Fill Concentration Limits and PADEP Regulated Fill Concentration Limits
- TCLP sample results were compared to the United States Environmental Protection Agency (USEPA) RCRA 40 Code of Federal Regulations Part 261.24 Table 1 – Maximum Concentration of Contaminants for the Toxicity Characteristic.

Waste characterization analytical results are summarized in Tables 2 through 4. Laboratory analytical reports are provided in Attachment 4.

## **CONCLUSIONS**

Material represented within the limits of this waste characterization study that is excavated as part of construction should be managed as a solid waste in New York State. Excavated soil should be handled and transported to a disposal or reuse facility that is permitted to accept this material in accordance with applicable local, state, and federal regulations, including the revised 6 NYCRR Part 360.

Hazardous waste, which was identified during this waste characterization study to be present at the Site (WC14A\_COMP\_4-9), must be handled, manifested, transported, and disposed of in accordance with Occupational Safety and Health Administration (OSHA) Standards and Regulations contained in Title 29 CFR Part 1910.120 "Hazardous Waste Operations and Emergency Response, USEPA RCRA regulations, 6 CRR-NY Part 370, and project specifications. USEPA permits are required for transporters of hazardous waste and facilities accepting hazardous waste for treatment or disposal.

Trucks used to haul material (including hazardous waste as applicable) must have valid NYSDEC Part 364 transporter permits, the appropriate New York State Department of Transportation (NYSDOT) placarding, and secure, opaque (non-mesh) tarp covers. Handling and disposal of excavated materials must also comply with the forthcoming Remedial Action Work Plan (RAWP) and project specifications.

## **LIMITATIONS**

This report was prepared expressly for NYM 145 Wolcott, LLC c/o Bungalow Projects and for the objectives defined herein. Langan cannot assume responsibility for the use of this report for any property other than the specific property addressed in this report, or by any third party without specific written authorization from Langan.

The design of our sampling program is not intended to meet the specific requirements of all receiving facilities and the selected waste disposal contractor may be required to perform additional soil sampling and analysis based on the facilities that the Contractor selects for soil disposal. The sampling frequency and analytical parameter list are conservative and based on typical receiving facility requirements.

The results provided in this report are based on subsurface conditions ascertained from the analysis of a limited number of samples. Recommendations provided are contingent upon one another and no recommendation should be followed independent of the others. Actual conditions encountered may differ substantially from those presented herein and should be promptly brought to the attention of the owner and to Langan. Based on the facility selected or on field observations during construction, the Contractor may be required to collect additional samples and have additional laboratory analysis completed. Langan is in no way responsible for the waste characterization grid, including marking out, maintaining, or ensuring the accuracy of the grid. Handling, characterizing, marking out areas, excavating, transporting, and disposing of material is solely the responsibility of the Contractor.

The waste characterization parameter list did not include the class of man-made chemicals referred to as per- and polyfluoroalkyl substances (PFAS), which are not currently required to be sampled for by most receiving facilities. PFAS compounds are not listed as hazardous substances under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or as hazardous wastes under the Resource Conservation and Recovery Act (RCRA), so they are not subject to the recordkeeping requirements associated with these regulations. However, several states have adopted PFAS regulations and recently, the United States Environmental Protection Agency (EPA) announced that it will move forward with the regulatory process to designate PFAS compounds as hazardous substances under CERCLA and hazardous wastes under RCRA. The timing of these changes as well as the potential impact of increasing PFAS regulation on potential liability and insurance coverage is unknown.

## CLOSING

Should you have any questions regarding the findings presented in this report, please feel free to call us at 212-479-5400.

Sincerely,  
**Langan Engineering, Environmental, Surveying,  
Landscape Architecture and Geology, D.P.C.**

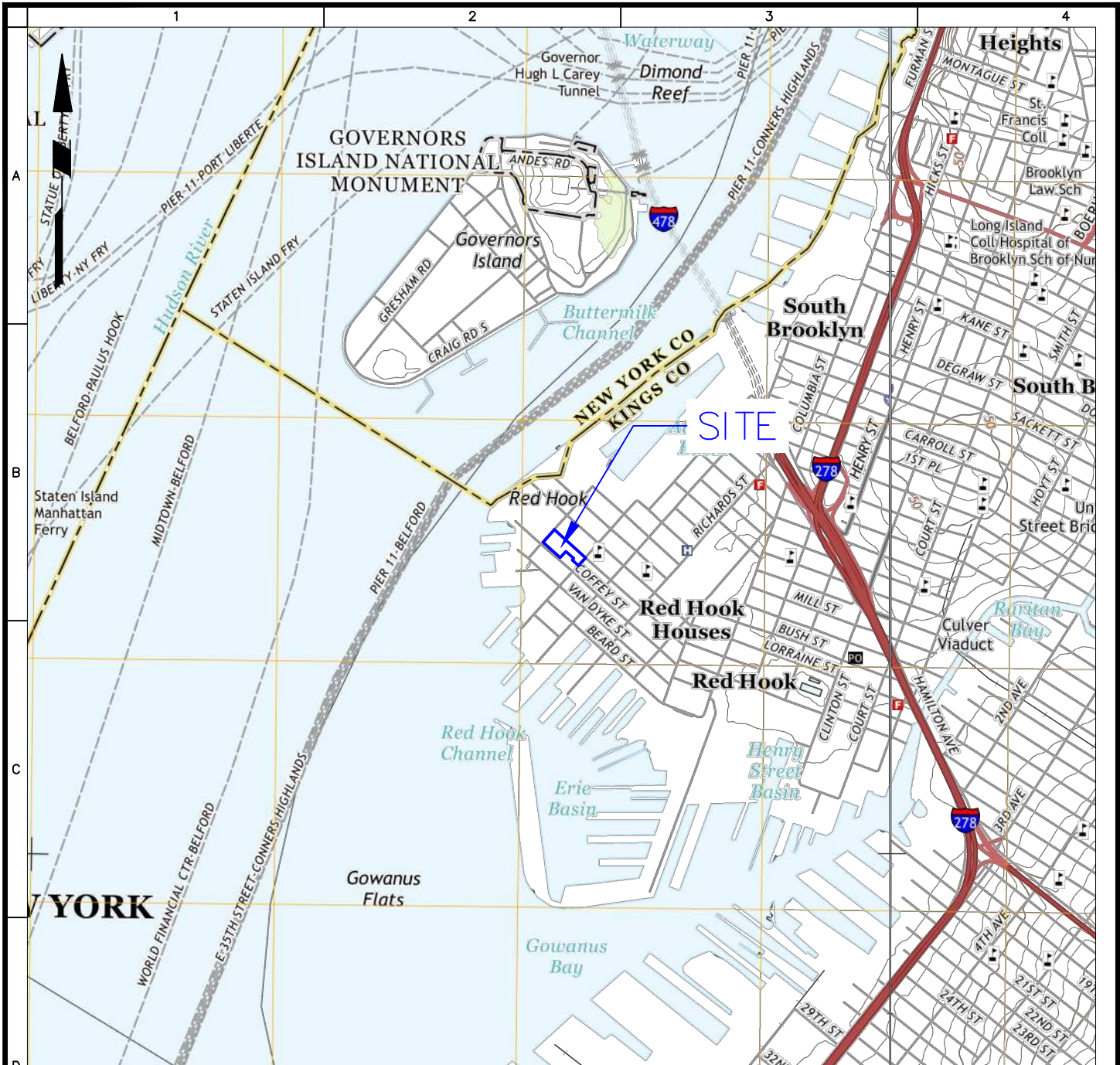


Brian Gochenaur, QEP  
Associate Principal

cc: G. Nicholls S. Knoop, N. Palumbo, L. Grose

Enclosure(s):	Figure 1	Site Location Map
	Figure 2	Waste Characterization Sample Location Map
	Table 1	Sample Collection Summary
	Table 2	Grab Soil Sample Analytical Results
	Table 3	Composite Soil Sample Analytical Results
	Table 4	Soil Sample Analytical Results – TCLP and RCRA Characteristics
	Attachment 1	May 17, 2024 Geotechnical Engineering Study Report
	Attachment 2	Proposed Redevelopment Plans
	Attachment 3	Soil Boring Logs
	Attachment 4	Laboratory Analytical Reports

## FIGURES



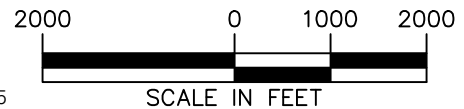
**LEGEND**

 APPROXIMATE SITE BOUNDARY

**NOTES**

1. BASE MAP IS REFERENCED FROM THE UNITED STATES GEOLOGICAL SURVEY 7.5 MINUTE SERIES QUADRANGLE MAPS OF BROOKLYN, NEW YORK AND JERSEY CITY, NEW JERSEY, NEW YORK, DATED 2016 AND 2014, RESPECTIVELY.

**WARNING:** IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.



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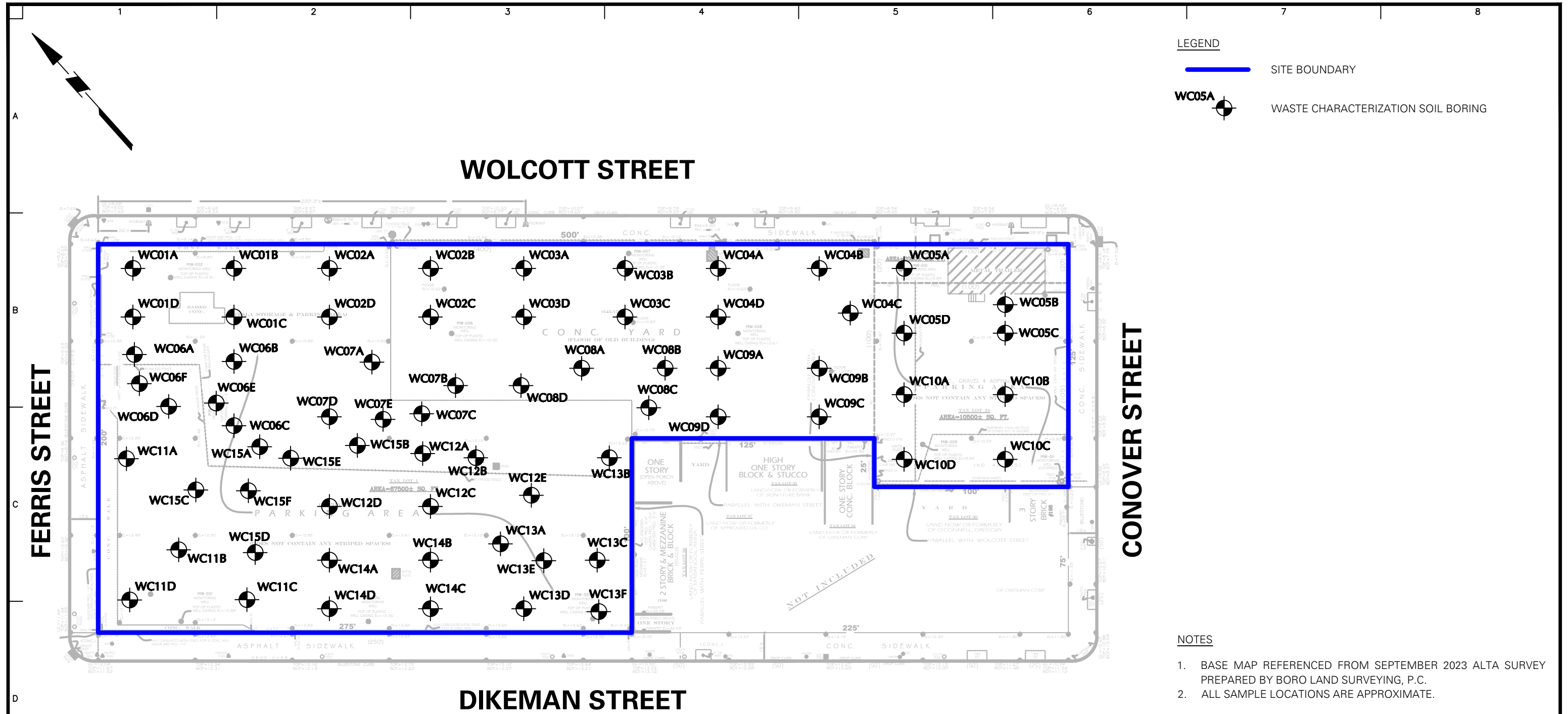
Project  
**145-165 WOLCOTT  
STREET**  
BLOCK No. 574 LOT Nos. 1, 23, & 24  
BROOKLYN  
KINGS NEW YORK

Figure Title  
**SITE LOCATION MAP**

Project No.  
170562203  
Date  
7/22/2024  
Drawn By  
LG  
Checked By  
NP

Figure No.  
**1**  
Sheet 1 of 2





- NOTES**
1. BASE MAP REFERENCED FROM SEPTEMBER 2023 ALTA SURVEY PREPARED BY BORO LAND SURVEYING, P.C.
  2. ALL SAMPLE LOCATIONS ARE APPROXIMATE.

**WARNING:** IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.



<b>LANGAN</b> Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com	Project <b>145-165 WOLCOTT STREET</b> BLOCK No. 574 LOT Nos. 1, 23, & 24 BROOKLYN KINGS NEW YORK	Figure Title <b>WASTE CHARACTERIZATION SAMPLE LOCATION MAP</b>	Project No. 170562203 Date 7/22/2024 Drawn By LG Checked By NP	Figure No. <b>2</b> Sheet 2 of 2
	© 2024 Langan			

## **TABLES**



**Table 1  
Preliminary Waste Characterization Report  
Sample Collection Summary**

**146-165 Wolcott Street  
Brooklyn, New York  
Langan Project No.: 170562203**

Grid ID	Sample Number	Sample Depth Interval (feet bgs)	Type	Boring IDs	Sample Interval (feet bgs)	Sample Name	Sample Date	Sample Time	Analysis
<b>WASTE CHARACTERIZATION SOIL SAMPLES</b>									
WC01	1	0 to 4 feet bgs	Grab	WC01A	0-1	WC01A_0-1	6/13/2024	10:35	Total and TCLP Metals <b>(HOLD)</b>
				WC01B	1-2	WC01B_1-2	6/13/2024	10:40	Total and TCLP Metals <b>(HOLD)</b>
				WC01C	1-2	WC01C_1-2	6/13/2024	10:45	Total and TCLP Metals <b>(HOLD)</b>
				WC01D	3-4	WC01D_3-4	6/13/2024	10:50	Total and TCLP Metals <b>(HOLD)</b>
				WC01B	2-3	WC01B_2-3	6/13/2024	10:55	Total and TCLP Metals <b>(HOLD)</b>
			Composite	WC01A, WC01B, WC01C, WC01D	0-4	WC01_COMP_0-4	6/13/2024	11:00	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics
Grab	WC01D	3-4	WC01D_GRAB_3-4	6/13/2024	9:53	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH			
WC02	2	0 to 4 feet bgs	Grab	WC02A	3-4	WC02A_3-4	6/13/2024	14:55	Total and TCLP Metals <b>(HOLD)</b>
				WC02B	0-1	WC02B_0-1	6/13/2024	15:00	Total and TCLP Metals <b>(HOLD)</b>
				WC02C	1-2	WC02C_1-2	6/13/2024	15:05	Total and TCLP Metals <b>(HOLD)</b>
				WC02D	2-3	WC02D_2-3	6/13/2024	15:10	Total and TCLP Metals <b>(HOLD)</b>
				WC02D	3-4	WC02D_3-4	6/13/2024	15:20	Total and TCLP Metals <b>(HOLD)</b>
			Composite	WC02A, WC02B, WC02C, WC02D	0-4	WC02_COMP_0-4	6/13/2024	15:25	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics
Grab	WC02D	3-4	WC02D_GRAB_3-4	6/13/2024	14:50	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH			
WC03	3	0 to 4 feet bgs	Grab	WC03A	1-2	WC03A_1-2	6/14/2024	8:40	Total and TCLP Metals <b>(HOLD)</b>
				WC03B	2-3	WC03B_2-3	6/14/2024	8:45	Total and TCLP Metals <b>(HOLD)</b>
				WC03C	3-4	WC03C_3-4	6/14/2024	8:50	Total and TCLP Metals <b>(HOLD)</b>
				WC03D	2-3	WC03D_2-3	6/14/2024	8:55	Total and TCLP Metals <b>(HOLD)</b>
				WC03C	0-1	WC03C_0-1	6/14/2024	9:00	Total and TCLP Metals <b>(HOLD)</b>
			Composite	WC03A, WC03B, WC03C, WC03D	0-4	WC03_COMP_0-4	6/14/2024	9:10	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics
Grab	WC03B	2-3	WC03B_GRAB_2-3	6/14/2024	9:05	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH			
WC04	4	0 to 4 feet bgs	Grab	WC04A	3-4	WC04A_3-4	6/20/2024	11:30	Total and TCLP Metals <b>(HOLD)</b>
				WC04B	1-2	WC04B_1-2	6/20/2024	11:35	Total and TCLP Metals <b>(HOLD)</b>
				WC04C	2-3	WC04C_2-3	6/20/2024	11:40	Total and TCLP Metals <b>(HOLD)</b>
				WC04D	2-3	WC04D_2-3	6/20/2024	11:45	Total and TCLP Metals <b>(HOLD)</b>
				WC04A	0-1	WC04A_0-1	6/20/2024	11:50	Total and TCLP Metals <b>(HOLD)</b>
			Composite	WC04A, WC04B, WC04C, WC04D	0-4	WC04_COMP_0-4	6/20/2024	11:55	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics
Grab	WC04B	2-4	WC04B_GRAB_2-4	6/20/2024	11:00	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH			
WC05	5	0 to 4 feet bgs	Grab	WC05A	0-1	WC05A_0-1	6/13/2024	11:35	Total and TCLP Metals <b>(HOLD)</b>
				WC05B	1-2	WC05B_1-2	6/13/2024	11:40	Total and TCLP Metals <b>(HOLD)</b>
				WC05C	3-4	WC05C_3-4	6/13/2024	11:45	Total and TCLP Metals <b>(HOLD)</b>
				WC05D	0-1	WC05D_0-1	6/13/2024	11:50	Total and TCLP Metals <b>(HOLD)</b>
				WC05D	2-3	WC05D_2-3	6/13/2024	11:55	Total and TCLP Metals <b>(HOLD)</b>
			Composite	WC05A, WC05B, WC05C, WC05D	0-4	WC05_COMP_0-4	6/13/2024	12:05	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics
Grab	WC05A	1-2	WC05A_GRAB_1-2	6/13/2024	12:00	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH			
WC06	6	0 to 4 feet bgs	Grab	WC06A	0-1	WC06A_0-1	6/18/2024	11:30	Total and TCLP Metals <b>(HOLD)</b>
				WC06B	1-2	WC06B_1-2	6/18/2024	11:35	Total and TCLP Metals <b>(HOLD)</b>
				WC06C	3-4	WC06C_3-4	6/18/2024	11:40	Total and TCLP Metals <b>(HOLD)</b>
				WC06D	2-3	WC06D_2-3	6/18/2024	11:45	Total and TCLP Metals <b>(HOLD)</b>
				WC06E	2-3	WC06E_2-3	6/18/2024	11:55	Total and TCLP Metals <b>(HOLD)</b>
	Composite	WC06A, WC06B, WC06C, WC06D, WC06E	0-4	WC06_COMP_0-4	6/18/2024	11:55	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics		
	Grab	WC06A	3-4	WC06A_GRAB_3-4	6/18/2024	11:20	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH		
	7	4 to 9 feet bgs	Grab	WC06C	4-5	WC06C_4-5	6/18/2024	12:35	Total and TCLP Metals <b>(HOLD)</b>
				WC06D	5-6	WC06D_5-6	6/18/2024	12:40	Total and TCLP Metals <b>(HOLD)</b>
				WC06E	8-9	WC06E_8-9	6/18/2024	12:45	Total and TCLP Metals <b>(HOLD)</b>
WC06F				6-7	WC06F_6-7	6/18/2024	12:50	Total and TCLP Metals <b>(HOLD)</b>	
WC06E				7-8	WC06E_7-8	6/18/2024	12:55	Total and TCLP Metals <b>(HOLD)</b>	
Composite	WC06C, WC06D, WC06E, WC06F	4-9	WC06_COMP_4-9	6/18/2024	13:00	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics			
Grab	WC06D	8-9	WC06D_GRAB_8-9	6/18/2024	12:30	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH			
Grab	WC06D	5	WC06D_5	6/18/2024	12:00	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH <b>(HOLD)</b>			
WC07	8	0 to 4 feet bgs	Grab	WC07A	1-2	WC07A_1-2	6/19/2024	14:35	Total and TCLP Metals <b>(HOLD)</b>
				WC07B	2-3	WC07B_2-3	6/19/2024	14:40	Total and TCLP Metals <b>(HOLD)</b>
				WC07C	0-1	WC07C_0-1	6/19/2024	14:45	Total and TCLP Metals <b>(HOLD)</b>
				WC07D	1-2	WC07D_1-2	6/19/2024	14:50	Total and TCLP Metals <b>(HOLD)</b>
				WC07E	3-4	WC07E_3-4	6/19/2024	14:55	Total and TCLP Metals <b>(HOLD)</b>
	Composite	WC07A, WC07B, WC07C, WC07D, WC07E	0-4	WC07_COMP_0-4	6/19/2024	15:00	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics		
	Grab	WC07E	0-2	WC07E_GRAB_0-2	6/19/2024	14:30	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH		
	9	4 to 9 feet bgs	Grab	WC07B	5-6	WC07B_5-6	6/19/2024	15:35	Total and TCLP Metals <b>(HOLD)</b>
				WC07C	6-7	WC07C_6-7	6/19/2024	15:40	Total and TCLP Metals <b>(HOLD)</b>
				WC07D	8-9	WC07D_8-9	6/19/2024	15:42	Total and TCLP Metals <b>(HOLD)</b>
WC07E				7-8	WC07E_7-8	6/19/2024	15:44	Total and TCLP Metals <b>(HOLD)</b>	
WC07D				4-5	WC07D_4-5	6/19/2024	15:45	Total and TCLP Metals <b>(HOLD)</b>	
Composite	WC07B, WC07C, WC07D, WC07E	4-9	WC07_COMP_4-9	6/19/2024	15:46	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics			
Grab	WC07E	6-8	WC07E_GRAB_6-8	6/19/2024	15:30	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH			
WC08	10	0 to 4 feet bgs	Grab	WC08A	1-2	WC08A_1-2	6/14/2024	13:40	Total and TCLP Metals <b>(HOLD)</b>
				WC08B	3-4	WC08B_3-4	6/14/2024	13:42	Total and TCLP Metals <b>(HOLD)</b>
				WC08C	2-3	WC08C_2-3	6/14/2024	13:44	Total and TCLP Metals <b>(HOLD)</b>
				WC08D	0-1	WC08D_0-1	6/14/2024	13:46	Total and TCLP Metals <b>(HOLD)</b>
				WC08C	3-4	WC08C_3-4	6/14/2024	13:48	Total and TCLP Metals <b>(HOLD)</b>
			Composite	WC08A, WC08B, WC08C, WC08D	0-4	WC08_COMP_0-4	6/14/2024	13:50	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics
Grab	WC08C	2-3	WC08C_GRAB_2-3	6/14/2024	13:35	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH			
WC09	11	0 to 4 feet bgs	Grab	WC09A	3-4	WC09A_3-4	6/20/2024	14:05	Total and TCLP Metals <b>(HOLD)</b>
				WC09B	2-3	WC09B_2-3	6/20/2024	14:10	Total and TCLP Metals <b>(HOLD)</b>
				WC09C	1-2	WC09C_1-2	06/XX/2024	14:15	Total and TCLP Metals <b>(HOLD)</b>
				WC09D	0-1	WC09D_0-1	6/20/2024	14:20	Total and TCLP Metals <b>(HOLD)</b>
				WC09D	2-3	WC09D_2-3	6/20/2024	14:25	Total and TCLP Metals <b>(HOLD)</b>
			Composite	WC09A, WC09B, WC09C, WC09D	0-4	WC09_COMP_0-4	6/20/2024	14:30	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics
Grab	WC09B	2-4	WC09B_GRAB_2-4	6/20/2024	14:00	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH			

**Table 1**  
**Preliminary Waste Characterization Report**  
**Sample Collection Summary**

**146-165 Wolcott Street**  
**Brooklyn, New York**  
**Langan Project No.: 170562203**

Grid ID	Sample Number	Sample Depth Interval (feet bgs)	Type	Boring IDs	Sample Interval (feet bgs)	Sample Name	Sample Date	Sample Time	Analysis
WC10	12	0 to 4 feet bgs	Grab	WC10A	0-1	WC10A_0-1	6/13/2024	13:25	Total and TCLP Metals <b>(HOLD)</b>
				WC10B	1-2	WC10B_1-2	6/13/2024	13:30	Total and TCLP Metals <b>(HOLD)</b>
				WC10C	2-3	WC10C_2-3	6/13/2024	13:35	Total and TCLP Metals <b>(HOLD)</b>
				WC10D	3-4	WC10D_3-4	6/13/2024	13:40	Total and TCLP Metals <b>(HOLD)</b>
				WC10D	0-1	WC1-D_0-1	6/13/2024	13:45	Total and TCLP Metals <b>(HOLD)</b>
			Composite	WC10A, WC10B, WC10C, WC10D	0-4	WC10_COMP_0-4	6/13/2024	13:20	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics
Grab	WC10D	2-3	WC10D_GRAB_2-3	6/13/2024	13:15	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH			
WC11	13	0 to 4 feet bgs	Grab	WC11A	1-2	WC11A_1-2	6/18/2024	14:05	Total and TCLP Metals <b>(HOLD)</b>
				WC11B	2-3	WC11B_2-3	6/18/2024	14:10	Total and TCLP Metals <b>(HOLD)</b>
				WC11C	2-3	WC11C_2-3	6/18/2024	14:15	Total and TCLP Metals <b>(HOLD)</b>
				WC11D	0-1	WC11D_0-1	6/18/2024	14:20	Total and TCLP Metals <b>(HOLD)</b>
				WC11D	3-4	WC11D_3-4	6/18/2024	14:25	Total and TCLP Metals <b>(HOLD)</b>
	Composite	WC11A, WC11B, WC11C, WC11D	0-4	WC11_COMP_0-4	6/18/2024	14:30	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics		
	Grab	WC11D	3-4	WC11D_GRAB_3-4	6/18/2024	14:00	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH		
	14	4 to 9 feet bgs	Grab	WC11A	6-7	WC11A_6-7	6/18/2024	15:05	Total and TCLP Metals <b>(HOLD)</b>
				WC11B	5-6	WC11B_5-6	6/18/2024	15:10	Total and TCLP Metals <b>(HOLD)</b>
				WC11C	4-5	WC11C_4-5	6/18/2024	15:15	Total and TCLP Metals <b>(HOLD)</b>
WC11D				8-9	WC11D_8-9	6/18/2024	15:20	Total and TCLP Metals <b>(HOLD)</b>	
WC11D				7-8	WC11D_7-8	6/18/2024	15:25	Total and TCLP Metals <b>(HOLD)</b>	
Composite	WC11A, WC11B, WC11C, WC11D	4-9	WC11_COMP_4-9	6/18/2024	15:30	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics			
Grab	WC11B	6-7	WC11B_GRAB_6-7	6/18/2024	15:00	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH			
WC12	15	0 to 4 feet bgs	Grab	WC12A	1-2	WC12A_1-2	6/19/2024	11:15	Total and TCLP Metals <b>(HOLD)</b>
				WC12B	0-1	WC12B_0-1	6/19/2024	11:20	Total and TCLP Metals <b>(HOLD)</b>
				WC12C	3-4	WC12C_3-4	6/19/2024	11:25	Total and TCLP Metals <b>(HOLD)</b>
				WC12D	2-3	WC12D_2-3	6/19/2024	11:30	Total and TCLP Metals <b>(HOLD)</b>
				WC12E	2-3	WC12E_2-3	6/19/2024	11:35	Total and TCLP Metals <b>(HOLD)</b>
	Composite	WC12A, WC12B, WC12C, WC12D, WC12E	0-4	WC12_COMP_0-4	6/19/2024	11:40	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics		
	Grab	WC12E	0-2	WC12E_GRAB_0-2	6/19/2024	11:10	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH		
	16	4 to 9 feet bgs	Grab	WC12A	6-7	WC12A_6-7	6/19/2024	12:05	Total and TCLP Metals <b>(HOLD)</b>
				WC12B	7-8	WC12B_7-8	6/19/2024	12:10	Total and TCLP Metals <b>(HOLD)</b>
				WC12C	4-5	WC12C_4-5	6/19/2024	12:15	Total and TCLP Metals <b>(HOLD)</b>
WC12D				5-6	WC12D_5-6	6/19/2024	12:20	Total and TCLP Metals <b>(HOLD)</b>	
WC12E				8-9	WC12E_8-9	6/19/2024	12:25	Total and TCLP Metals <b>(HOLD)</b>	
Composite	WC12A, WC12B, WC12C, WC12D, WC12E	4-9	WC12_COMP_4-9	6/19/2024	12:30	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics			
Grab	WC12C	5-7	WC12C_GRAB_5-7	6/19/2024	12:00	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH			
WC13	17	0 to 4 feet bgs	Grab	WC13B	0-2	WC13B_0-2	6/17/2024	10:40	Total and TCLP Metals <b>(HOLD)</b>
				WC13C	0-2	WC13C_0-2	6/17/2024	10:45	Total and TCLP Metals <b>(HOLD)</b>
				WC13D	0-2	WC13D_0-2	6/17/2024	10:50	Total and TCLP Metals <b>(HOLD)</b>
				WC13E	0-2	WC13E_0-2	6/17/2024	10:55	Total and TCLP Metals <b>(HOLD)</b>
				WC13F	0-2	WC13F_0-2	6/17/2024	11:00	Total and TCLP Metals <b>(HOLD)</b>
			Composite	WC13B, WC13C, WC13D, WC13E, WC13F	0-4	WC13_COMP_0-4	6/17/2024	11:05	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics
Grab	WC13D	0-2	WC13D_GRAB_0-2	6/17/2024	10:30	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH			
WC14	18	0 to 4 feet bgs	Grab	WC14A	1-2	WC14A_1-2	6/17/2024	14:00	Total and TCLP Metals <b>(HOLD)</b>
				WC14B	3-4	WC14B_3-4	6/17/2024	14:05	Total and TCLP Metals <b>(HOLD)</b>
				WC14C	1-2	WC14C_1-2	6/17/2024	14:10	Total and TCLP Metals <b>(HOLD)</b>
				WC14D	0-1	WC14D_0-1	6/17/2024	14:15	Total and TCLP Metals <b>(HOLD)</b>
				WC14D	2-3	WC14D_2-3	6/17/2024	14:20	Total and TCLP Metals <b>(HOLD)</b>
	Composite	WC14A, WC14B, WC14C, WC14D	0-4	WC14_COMP_0-4	6/17/2024	14:25	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics		
	Grab	WC14A	2-3	WC14A_GRAB_2-3	6/17/2024	13:40	Total and TCLP Metals <b>(HOLD)</b>		
	Grab	WC14A	1-2	WC14A_1-2	6/17/2024	14:00	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH <b>(HOLD)</b>		
	19	4 to 9 feet bgs	Grab	WC14B	7-8	WC14B_7-8	6/17/2024	15:35	Total and TCLP Metals <b>(HOLD)</b>
				WC14C	4-5	WC14C_4-5	6/17/2024	15:40	Total and TCLP Metals <b>(HOLD)</b>
WC14D				5-6	WC14D_5-6	6/17/2024	15:45	Total and TCLP Metals <b>(HOLD)</b>	
WC14D				6-7	WC14D_6-7	6/17/2024	15:50	Total and TCLP Metals <b>(HOLD)</b>	
WC14C				8-9	WC14C_8-9	6/17/2024	15:55	Total and TCLP Metals <b>(HOLD)</b>	
Composite	WC14B, WC14C, WC14D	4-9	WC14_COMP_4-9	6/17/2024	16:00	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics			
Grab	WC14B	7-8	WC14B_GRAB_7-8	6/17/2024	15:30	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH			
20	4 to 9 feet bgs	Grab	WC14A	6-7	WC14A_6-7	6/17/2024	15:10	Total and TCLP Metals <b>(HOLD)</b>	
			Composite	WC14A	4-9	WC14A_COMP_4-9	6/17/2024	15:15	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics
Grab	WC14A	5-6	WC14A_GRAB_5-6	6/17/2024	15:00	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH			
WC15	21	0 to 6 feet bgs	Grab	WC15B	1-2	WC15B_1-2	6/21/2024	15:00	Total and TCLP Metals <b>(HOLD)</b>
				WC15C	0-1	WC15C_0-1	6/21/2024	15:02	Total and TCLP Metals <b>(HOLD)</b>
				WC15D	2-3	WC15D_2-3	6/21/2024	15:04	Total and TCLP Metals <b>(HOLD)</b>
				WC15F	3-4	WC15F_3-4	6/21/2024	15:06	Total and TCLP Metals <b>(HOLD)</b>
				WC15F	5-6	WC15F_5-6	6/21/2024	15:08	Total and TCLP Metals <b>(HOLD)</b>
			Composite	WC15B, WC15C, WC15D, WC15E	0-4	WC15_COMP_0-6	6/21/2024	15:10	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics
	Grab	WC15C	2-4	WC15C_GRAB_2-4	6/21/2024	14:55	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH		
	22	6 to 12 feet bgs	Grab	WC15B	6-7	WC15B_6-7	6/21/2024	15:32	Total and TCLP Metals <b>(HOLD)</b>
				WC15C	7-8	WC15C_7-8	6/21/2024	15:34	Total and TCLP Metals <b>(HOLD)</b>
				WC15D	10-11	WC15D_10-11	6/21/2024	15:36	Total and TCLP Metals <b>(HOLD)</b>
				WC15F	11-12	WC15F_11-12	6/21/2024	15:38	Total and TCLP Metals <b>(HOLD)</b>
				WC15B	9-10	WC15B_9-10	6/21/2024	15:40	Total and TCLP Metals <b>(HOLD)</b>
	Composite	WC15B, WC15C, WC15D, WC15F	6-12	WC15_COMP_6-12	6/21/2024	15:45	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics		
	Grab	WC15F	9-11	WC15F_GRAB_9-11	6/21/2024	15:30	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH		
23	12 to 16 feet bgs	Grab	WC15B	12-13	WC15B_12-13	6/21/2024	16:02	Total and TCLP Metals <b>(HOLD)</b>	
			WC15C	13-14	WC15C_13-14	6/21/2024	16:04	Total and TCLP Metals <b>(HOLD)</b>	
			WC15D	14-15	WC15D_14-15	6/21/2024	16:06	Total and TCLP Metals <b>(HOLD)</b>	
			WC15F	15-16	WC15F_15-16	6/21/2024	16:08	Total and TCLP Metals <b>(HOLD)</b>	
			WC15C	13-14	WC15C_13-14	6/21/2024	16:10	Total and TCLP Metals <b>(HOLD)</b>	
Composite	WC15B, WC15C, WC15D, WC15F	12-16	WC15_COMP_12-16	6/21/2024	16:15	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics			
Grab	WC15F	14-16	WC15F_GRAB_14-16	6/21/2024	16:00	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH			

**Table 1  
Preliminary Waste Characterization Report  
Sample Collection Summary**

**146-165 Wolcott Street  
Brooklyn, New York  
Langan Project No.: 170562203**

Grid ID	Sample Number	Sample Depth Interval (feet bgs)	Type	Boring IDs	Sample Interval (feet bgs)	Sample Name	Sample Date	Sample Time	Analysis
WC03 (Sample grid WC16)	24	4 to 9 feet bgs	Grab	WC03B	5-6	WC03B_5-6	6/14/2024	12:10	Total and TCLP Metals <b>(HOLD)</b>
				WC03B	6-7	WC03B_6-7	6/14/2024	12:22	Total and TCLP Metals <b>(HOLD)</b>
				WC03C	4-5	WC03C_4-5	6/14/2024	12:24	Total and TCLP Metals <b>(HOLD)</b>
				WC03C	8-9	WC03C_8-9	6/14/2024	12:26	Total and TCLP Metals <b>(HOLD)</b>
				WC03C	7-8	WC03C_7-8	6/14/2024	12:18	Total and TCLP Metals <b>(HOLD)</b>
			Composite	WC03B, WC03C	4-9	WC16_COMP_4-9	06/14/2024	12:30	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics
Grab	WC03C	7-8	WC03C_GRAB_7-8	6/14/2024	12:15	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH			
WC04/WC09 (Sample grid WC17)	25	4 to 9 feet bgs	Grab	WC04B	5-6	WC04B_5-6	6/20/2024	14:55	Total and TCLP Metals <b>(HOLD)</b>
				WC04C	7-8	WC04C_7-8	6/20/2024	15:00	Total and TCLP Metals <b>(HOLD)</b>
				WC04D	4-5	WC04D_4-5	6/20/2024	15:05	Total and TCLP Metals <b>(HOLD)</b>
				WC09A	8-9	WC09A_8-9	6/20/2024	15:10	Total and TCLP Metals <b>(HOLD)</b>
				WC09B	6-7	WC09B_6-7	6/20/2024	15:15	Total and TCLP Metals <b>(HOLD)</b>
			Composite	WC04A, WC04B, WC04C, WC04D, WC09A, WC09B	4-9	WC17_COMP_4-9	6/20/2024	15:20	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics, <b>Full TCLP (minus VOCs), Paint Filter</b>
Grab	WC09A	7-9	WC09A_GRAB_7-9	6/20/2024	14:50	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH, <b>TCLP VOCs</b>			
WC06/WC11 (Sample grid WC18)	26	9 to 13 feet bgs	Grab	WC06D	10-11	WC06D_10-11	6/18/2024	15:40	Total and TCLP Metals <b>(HOLD)</b>
				WC06F	9-10	WC06F_9-10	06/18/2024	15:45	Total and TCLP Metals <b>(HOLD)</b>
				WC11A	11-12	WC11A_11-12	6/18/2024	15:50	Total and TCLP Metals <b>(HOLD)</b>
				WC11B	12-13	WC11B_12-13	06/18/2024	15:55	Total and TCLP Metals <b>(HOLD)</b>
				WC11D	10-11	WC11D_10-11	06/18/2024	16:00	Total and TCLP Metals <b>(HOLD)</b>
			Composite	WC06D, WC06F, WC11B, WC11D	9-13	WC18_COMP_9-13	6/18/2024	16:05	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics
Grab	WC06D	11-12	WC06D_GRAB_11-12	6/18/2024	15:35	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH			
WC07/WC12 (Sample grid WC19)	27	9 to 13 feet bgs	Grab	WC07B	10-11	WC07B_10-11	6/19/2024	16:11	Total and TCLP Metals <b>(HOLD)</b>
				WC07C	9-10	WC07C_9-10	6/19/2024	16:17	Total and TCLP Metals <b>(HOLD)</b>
				WC12A	10-11	WC12A_10-11	6/19/2024	16:18	Total and TCLP Metals <b>(HOLD)</b>
				WC12B	12-13	WC12B_12-13	6/19/2024	16:19	Total and TCLP Metals <b>(HOLD)</b>
				WC12B	11-12	WC12B_11-12	6/19/2024	16:20	Total and TCLP Metals <b>(HOLD)</b>
			Composite	WC07B, WC07C, WC12A, WC12B	9-13	WC19_COMP_9-13	6/19/2024	16:25	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics
Grab	WC07B	11-13	WC07B_GRAB_11-13	6/19/2024	16:10	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH			
WC08 (Sample grid WC20)	28	4 to 9 feet bgs	Grab	WC08A	7-8	WC08A_7-8	6/14/2024	13:00	Total and TCLP Metals <b>(HOLD)</b>
				WC08A	4-5	WC08A_4-5	6/14/2024	13:02	Total and TCLP Metals <b>(HOLD)</b>
				WC08B	5-6	WC08B_5-6	6/14/2024	13:04	Total and TCLP Metals <b>(HOLD)</b>
				WC08B	6-7	WC08B_6-7	6/14/2024	13:06	Total and TCLP Metals <b>(HOLD)</b>
				WC08A	8-9	WC08A_8-9	6/14/2024	13:08	Total and TCLP Metals <b>(HOLD)</b>
			Composite	WC08A, WC08B	4-9	WC20_COMP_4-9	6/14/2024	13:10	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics
Grab	WC08B	6-7	WC08B_GRAB_6-7	6/14/2024	12:45	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH			
WC15 (sample grid WC21)	29	0 to 6 feet bgs	Grab	*did not collect due to lack of jarware	0-3	WC15A	6/21/2024		No TCLP Holds
				3-6	WC15A	6/21/2024			
				0-3	WC15E	6/21/2024			
				3-6	WC15E	6/21/2024			
	Composite	WC15A, WC15E	0-6	WC21_COMP_0-6	6/21/2024	16:45	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics, <b>Full TCLP (minus VOCs), Paint Filter</b>		
	Grab	WC15E	4-6	WC15E_GRAB_4-6	6/21/2024	16:40	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH, <b>TCLP VOCs</b>		
	30	6 to 12 feet bgs	Grab	*did not collect due to lack of jarware					No TCLP Holds
	Composite	WC15A, WC15E	6-12	WC21_COMP_6-12	6/21/2024	17:05	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics		
	Grab	WC15E	6-8	WC15E_GRAB_6-8	6/21/2024	17:00	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH		
31	12 to 16 feet bgs	Grab	*did not collect due to lack of jarware					No TCLP Holds	
Composite	WC15A, WC15E	12-16	WC21_COMP_12-16	6/21/2024	17:20	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics			
Grab	WC15E	13-15	WC15E_GRAB_13-15	6/21/2024	13:15	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH			
<b>QA/QC SAMPLES</b>									
Type	Sample Number	Sample Depth Interval (feet bgs)	Parent Sample	Boring IDs	Sample Interval (feet bgs)	Sample Name	Sample Date	Sample Time	Analysis
Duplicate	1	0-4	WC02_COMP_0-4	WC02A, WC02B, WC02C, WC02D	0-4	DUP01_COMP_061324	6/13/2024	-	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics
Duplicate	2	3-4	WC02D_GRAB_3-4	WC02D	3-4	DUP01_GRAB_061324	6/13/2024	-	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH
Duplicate	3	0-4	WC04_COMP_0-4	WC04A, WC04B, WC04C, WC04D	0-4	DUP02_COMP_062024	6/20/2024	-	Part 375/TCL/NJDEP/PADEP SVOCs, Pesticides, Herbicides, PCBs, Part 375/TAL Metals (Including Hexavalent & Trivalent Chromium), Total Cyanide, TCLP Metals, RCRA Characteristics
Duplicate	4	2-4	WC04B_GRAB_2-4	WC04B	2-4	DUP02_GRAB_062024	6/20/2024	-	Part 375/TCL/NJDEP/PADEP VOCs, NJDEP EPH

**Notes:**

- Part 375 list taken from Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (6 NYCRR) New York State Department of Environmental Conservation (NYSDEC) Part 375
- bgs - below grade surface
- DATE will take the form MMDDYY
- TCL - Target Compound List
- NJDEP - New Jersey Department of Environmental Protection
- PADEP - Pennsylvania Department of Environmental Protection
- SVOC - Semivolatile organic compound
- PCB - Polychlorinated biphenyl
- TAL - Target Analyte List
- TCLP - Toxicity Characteristic Leaching Procedure
- RCRA - Resource Conservation and Recovery Act
- VOC - Volatile organic compound
- EPH - Extractable petroleum hydrocarbons
- RCRA characteristics - ignitability, corrosivity, and reactive sulfide/cyanide

Table 2 Preliminary Waste Characterization Report Grab Soil Sample Analytical Results

145-165 Wolcott Street Brooklyn, New York NYSDEC BCP Site No.: C224256 Langan Project No.: 170562203

Table with columns for Analyte, CAS Number, Lower of NYSDEC Part 375 Restricted Use Residential and Protection of Groundwater SCOs, NJDEP RSRS, NJDEP NRSRs, NJDEP MGWSRS, PADEP Clean Fill Concentration Limits, PADEP Regulated Fill Concentration Limits, Location, Sample Name, Sample Date, Sample Depth, Unit, and results for various locations (WC01D, WC02D, WC02D, WC03B, WC03C, WC04B, WC04B, WC05A, WC06A, WC06D, WC06D).





**Table 2**  
**Preliminary Waste Characterization Report**  
**Grab Soil Sample Analytical Results**

**145-165 Wolcott Street**  
**Brooklyn, New York**  
**NYSDEC BCP Site No.: C224256**  
**Langan Project No.: 170562203**

**Notes:**

RUR - Restricted Use Residential  
PGW - Protection of Groundwater  
SCO - Soil Cleanup Objectives  
NJDEP - New Jersey Department of Environmental Protection  
SRS - Soil Remediation Standards  
RSRS - Residential Soil Remediation Standards  
NRSRS - Non-Residential Soil Remediation Standards  
MGWSRS - Migration to Groundwater Soil Remediation Standards  
PADEP - Pennsylvania Department of Environmental Protection  
CAS - Chemical Abstract Service  
NS - No standard  
mg/kg - milligram per kilogram  
NA - Not analyzed  
RL - Reporting limit  
<RL - Not detected

Soil sample analytical results are compared to the lower of the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Restricted Use Residential and Protection of Groundwater SCOs, Most Stringent NJDEP SRS - Ingestion/Dermal and Inhalation Exposure Pathway - Residential/Non-Residential and NJDEP SRS - Migration to Groundwater Exposure Pathway (Adopted May 2021), and the PADEP Clean Fill Concentration Limits and PADEP Regulated Fill Concentration Limits.

**EPH**

Category 2 Discharges (Petroleum Discharges Other than No. 2 Fuel Oil and Diesel):  
Ingestion/Dermal

1) Analytical results of unfractionated EPH data are below or equal to the screening level of 2,300 mg/kg; fractionation and sample-specific standards were not required.

**Qualifiers:**

J - The analyte was detected above the method detection limit (MDL), but below the RL; therefore, the result is an estimated concentration.

U - The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

**Exceedance Summary:**

- 10** - Result exceeds the lower of NYSDEC RUR and PGW SCOs
- 10** - Result exceeds NJDEP SRS
- 10 - Result exceeds PADEP Fill Concentration Limits



Table 3 Preliminary Waste Characterization Report Composite Soil Sample Analytical Results

145-165 Wolcott Street Brooklyn, New York NYSDEC BCP Site No.: C224256 Langan Project No.: 170562203

Table with columns for Analyte, CAS Number, Lower of NYSDEC Part 375 Restricted Use Residential and Protection of Groundwater SCOs, NJDEP RSRS, NJDEP NRSRS, NJDEP MGWSRS, PADEP Clean Fill Concentration Limits, PADEP Regulated Fill Concentration Limits, Location, and multiple sampling locations (WC01 to WC07) with Sample Name, Sample Date, Sample Depth, and Unit. Rows include various organic compounds like Tetrachlorobenzene, DDT, and PCBs.







Table 3  
Preliminary Waste Characterization Report  
Composite Soil Sample Analytical Results

145-165 Wolcott Street  
Brooklyn, New York  
NYSDEC BCP Site No.: C224256  
Langan Project No.: 170562203

Table with columns: Analyte, CAS Number, Lower of NYSDEC Part 375 Restricted Use Residential and Protection of Groundwater SCOs, NJDEP RSRS, NJDEP NRSRS, NJDEP MGWSRS, PADEP Clean Fill Concentration Limits, PADEP Regulated Fill Concentration Limits, Location, and 12 sampling locations (WC01-WC07, each with two depths). Rows include Pesticides, Herbicides, Polychlorinated Biphenyl, and Metals.



Table 3
Preliminary Waste Characterization Report
Composite Soil Sample Analytical Results

145-165 Wolcott Street
Brooklyn, New York
NYSDEC BCP Site No.: C224256
Langan Project No.: 170562203

Table with columns: Analyte, CAS Number, Lower of NYSDEC Part 375 Restricted Use Residential and Protection of Groundwater SCOs, NJDEP RSRS, NJDEP NRSRS, NJDEP MGWSRS, PADEP Clean Fill Concentration Limits, PADEP Regulated Fill Concentration Limits, Location, WC15, WC16, WC17, WC18, WC19, WC20, WC21, WC21. Rows include Pesticides, Herbicides, Polychlorinated Biphenyl, and Metals.

**Table 3**  
**Preliminary Waste Characterization Report**  
**Composite Soil Sample Analytical Results**

**145-165 Wolcott Street**  
**Brooklyn, New York**  
**NYSDEC BCP Site No.: C224256**  
**Langan Project No.: 170562203**

**Notes:**

RUR - Restricted Use Residential  
PGW - Protection of Groundwater  
SCO - Soil Cleanup Objectives  
NJDEP - New Jersey Department of Environmental Protection  
SRS - Soil Remediation Standards  
RSRS - Residential Soil Remediation Standards  
NRSRS - Non-Residential Soil Remediation Standards  
MGWSRS - Migration to Groundwater Soil Remediation Standards  
PADEP - Pennsylvania Department of Environmental Protection  
CAS - Chemical Abstract Service  
NS - No standard  
mg/kg - milligram per kilogram  
NA - Not analyzed  
RL - Reporting limit  
<RL - Not detected

Soil sample analytical results are compared to the lower of the New York State Department of Environmental Conservation (NYSDEC) Title 6 of the Official Compilation of New York Codes, Rules, and Regulations (NYCRR) Part 375 Restricted Use Residential and Protection of Groundwater SCOs, Most Stringent NJDEP SRS - Ingestion/Dermal and Inhalation Exposure Pathway - Residential/Non-Residential and NJDEP SRS - Migration to Groundwater Exposure Pathway (Adopted May 2021), and the PADEP Clean Fill Concentration Limits and PADEP Regulated Fill Concentration Limits.

Effective as of February 26, 2022, the Pennsylvania Department of Environmental Protection (PADEP) published a new Interim-Final Technical Guidance Document (TGD) titled Utilizing Published Data in Performing a Background Demonstration and Equivalent Site Evaluation for Naturally Occurring Vanadium. Technical Guidance allows the use of Regional Background Concentrations (RBC), New York's background vanadium is the value displayed. This applies to PADEP Clean Fill Concentration Limits.

Criterion comparisons for 3- & 4-methylphenol (m&p cresol) are provided for reference. Promulgated SCOs are for 3-methylphenol (m-cresol) and 4-methylphenol (p-cresol).

**Qualifiers:**

I - The lower value for the two columns has been reported due to obvious interference.  
J - The analyte was detected above the method detection limit (MDL), but below the RL; therefore, the result is an estimated concentration.  
P - The relative percent difference (RPD) between the results for the two columns exceeds the method-specified criteria.  
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

**Exceedance Summary:**

**10** - Result exceeds the lower of NYSDEC RUR and PGW SCOs  
**10** - Result exceeds NJDEP SRS  
**10** - Result exceeds PADEP Fill Concentration Limits



**Table 4  
Preliminary Waste Characterization Report  
Soil Sample Analytical Results - TCLP and RCRA Characteristics**

**145-165 Wolcott Street  
Brooklyn, New York  
NYSDEC BCP Site No.: C224256  
Langan Project No.: 170562203**

Analyte	CAS Number	RCRA Characteristics of Hazardous Waste	Location	WC07	WC07	WC08	WC09	WC09A	WC10	WC11	WC11	WC12
			Sample Name	WC07_COMP_0-4	WC07_COMP_4-9	WC08_COMP_0-4	WC09_COMP_0-4	WC09A_GRAB_7-9	WC10_COMP_0-4	WC11_COMP_0-4	WC11_COMP_4-9	WC12_COMP_0-4
			Sample Date	06/19/2024	06/19/2024	06/14/2024	06/20/2024	06/20/2024	06/13/2024	06/18/2024	06/18/2024	06/19/2024
			Sample Depth	0-4	4-9	0-4	0-4	7-9	0-4	0-4	4-9	0-4
			Unit	Result	Result	Result	Result	Result	Result	Result	Result	Result
<b>Volatile Organic Compounds</b>												
1,1-Dichloroethene	75-35-4	0.7	mg/l	NA	NA	NA	NA	<0.005 U	NA	NA	NA	NA
1,2-Dichloroethane	107-06-2	0.5	mg/l	NA	NA	NA	NA	<0.005 U	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	7.5	mg/l	NA	NA	NA	NA	<0.025 U	NA	NA	NA	NA
Benzene	71-43-2	0.5	mg/l	NA	NA	NA	NA	0.0085	NA	NA	NA	NA
Carbon Tetrachloride	56-23-5	0.5	mg/l	NA	NA	NA	NA	<0.005 U	NA	NA	NA	NA
Chlorobenzene	108-90-7	100	mg/l	NA	NA	NA	NA	<0.005 U	NA	NA	NA	NA
Chloroform	67-66-3	6	mg/l	NA	NA	NA	NA	<0.0075 U	NA	NA	NA	NA
Methyl Ethyl Ketone (2-Butanone)	78-93-3	200	mg/l	NA	NA	NA	NA	<0.05 U	NA	NA	NA	NA
Tetrachloroethene (PCE)	127-18-4	0.7	mg/l	NA	NA	NA	NA	<0.005 U	NA	NA	NA	NA
Trichloroethene (TCE)	79-01-6	0.5	mg/l	NA	NA	NA	NA	<0.005 U	NA	NA	NA	NA
Vinyl Chloride	75-01-4	0.2	mg/l	NA	NA	NA	NA	<0.01 U	NA	NA	NA	NA
<b>Semi-Volatile Organic Compounds</b>												
2,4,5-Trichlorophenol	95-95-4	400	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	88-06-2	2	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	121-14-2	0.13	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol (o-Cresol)	95-48-7	200	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
3 & 4 Methylphenol (m&p Cresol)	65794-96-9	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	118-74-1	0.13	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	87-68-3	0.5	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	67-72-1	3	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	98-95-3	2	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	87-86-5	100	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyridine	110-86-1	5	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Pesticides</b>												
Chlordane (alpha and gamma)	57-74-9	0.03	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Endrin	72-20-8	0.02	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Gamma Bhc (Lindane)	58-89-9	0.4	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor	76-44-8	0.008	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Heptachlor Epoxide	1024-57-3	0.008	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methoxychlor	72-43-5	10	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Toxaphene	8001-35-2	0.5	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Herbicides</b>												
2,4-D (Dichlorophenoxyacetic Acid)	94-75-7	10	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silvex (2,4,5-Tp)	93-72-1	1	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Metals</b>												
Arsenic	7440-38-2	5	mg/l	<1 U	<1 U	<1 U	<1 U	NA	0.0385 J	0.0424 J	<1 U	0.0276 J
Barium	7440-39-3	100	mg/l	0.855	0.642	0.965	0.681	NA	0.5	0.227 J	0.287 J	0.772
Beryllium	7440-41-7	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	7440-43-9	1	mg/l	<0.1 U	<0.1 U	<0.1 U	<0.1 U	NA	<0.1 U	0.0101 J	<0.1 U	<0.1 U
Chromium, Total	7440-47-3	5	mg/l	<0.2 U	<0.2 U	<0.2 U	<0.2 U	NA	<0.2 U	<0.2 U	<0.2 U	<0.2 U
Copper	7440-50-8	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	7439-92-1	5	mg/l	0.133 J	0.334 J	0.285 J	0.568	NA	0.367 J	0.108 J	0.105 J	1.07
Mercury	7439-97-6	0.2	mg/l	<0.001 U	<0.001 U	<0.001 U	<0.001 U	NA	<0.001 U	<0.001 U	<0.001 U	<0.001 U
Nickel	7440-02-0	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	7782-49-2	1	mg/l	<0.5 U	<0.5 U	<0.5 U	<0.5 U	NA	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Silver	7440-22-4	5	mg/l	<0.1 U	<0.1 U	<0.1 U	<0.1 U	NA	<0.1 U	<0.1 U	<0.1 U	<0.1 U
Zinc	7440-66-6	NS	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>General Chemistry</b>												
Free Liquids	FLIQUIDS	NS	NONE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ignitability	10-36-6	0	NONE	<0 U	<0 U	<0 U	<0 U	NA	<0 U	<0 U	<0 U	<0 U
pH (Hydrogen Cation)	12408-02-5	2-12.5	pH UNITS	8.14	9.17	8.66	7.72	NA	12.2	6.88	5.16	8.74
Reactive Cyanide	CREAC	NS	mg/kg	<10 U	<10 U	<10 U	<10 U	NA	<10 U	<10 U	<10 U	<10 U
Sulfide Reactive	SREAC	NS	mg/kg	<10 U	<10 U	<10 U	<10 U	NA	<10 U	<10 U	<10 U	<10 U







**Table 4**  
**Preliminary Waste Characterization Report**  
**Soil Sample Analytical Results - TCLP and RCRA Characteristics**

**145-165 Wolcott Street**  
**Brooklyn, New York**  
**NYSDEC BCP Site No.: C224256**  
**Langan Project No.: 170562203**

**Notes:**

TCLP - Toxicity Characteristic Leaching Procedure

CAS - Chemical Abstract Service

NS - No standard

mg/l - milligram per liter

mg/kg - milligram per kilogram

deg C - degrees Celsius

NA - Not analyzed

RL - Reporting limit

<RL - Not detected

Grab and Composite soil sample analytical results are compared to the 6 New York Codes, Rules and Regulations (NYCRR) Part 371.3 and 40 CFR 261 Subpart C and Table 1 of 40 CFR 261.24 - Environmental Protection Agency (EPA) Resource Conservation and Recovery Act (RCRA) Characteristics of Hazardous Waste.

The presence of free liquids in a sample was determined using the paint filter liquids test (USEPA Method 9095). Hydrogen Cation is a measure of pH, or corrosivity of substance.

**Qualifiers:**

J - The analyte was detected above the method detection limit (MDL), but below the RL; therefore, the result is an estimated concentration.

U - The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

**Exceedance Summary:**

**10** - Result exceeds the RCRA Maximum Concentration of Contaminants for the Toxicity Characteristic

**ATTACHMENT 1**

**17 MAY 2024 – GEOTECHNICAL ENGINEERING STUDY REPORT –  
LANGAN**

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# GEOTECHNICAL ENGINEERING STUDY

for

**145 Wolcott Street  
Brooklyn, New York**

*Prepared For:*

**Bungalow Projects  
233 Broadway, 10<sup>th</sup> Floor  
New York, NY 10279**

*Prepared By:*

**Langan Engineering, Environmental, Surveying,  
Landscape Architecture and Geology, D.P.C.  
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## INTRODUCTION

This report presents the results of our subsurface investigation and provides geotechnical engineering recommendations for the design and construction of the proposed development located at 145 Wolcott Street in Brooklyn, New York. All services were performed in general accordance with our executed contract, dated 31 January 2024.

Our understanding of the project is based on review of documents provided, discussions with your office and the project team, and our general experience in the area. Architectural information was provided by the project architect (COOKFOX Architects, DPC) and structural information was provided by the project structural engineer (Thornton Tomasetti). All recommendations are in accordance with the 2022 New York City Building Code 2022 (NYCBC).

Elevations were interpolated from the survey titled "ALTA/NSPS Land Title Survey, No. 145-65 Wolcott Street, Brooklyn, N.Y. 11231," prepared by Boro Land Surveying, P.C., dated 22 September 2023. All elevations contained herein reference the North American Vertical Datum of 1988 (NAVD88)<sup>1</sup>.

## SITE DESCRIPTION

The project site is located at 145 Wolcott Street in the Red Hook neighborhood of Brooklyn, New York, and is comprised of multiple parcels referenced as Block 574, Lots 1, 23, and 24 on New York City Tax Maps. The site has a total footprint of about 80,000 square feet and is generally bound by Wolcott Street to the north, Dikeman Street and multiple one-to-three-story buildings to the south, Ferris Street to the west, and Conover Street to the south. A site location map is presented as Figure 1.

The site is currently occupied by on-grade asphalt parking lots and an on-grade remanent concrete slabs and pads from a recently demolished low-rise industrial automotive maintenance building. A one-story metal trailer occupies the northeastern corner of the project site. The site has about 500 feet of frontage on Wolcott Street, about 125 feet of frontage on Conover Street, about 275 feet of frontage on Dikeman Street, and about 200 feet of frontage on Ferris Street. Existing grades within the site generally vary from about el 9.7 ft to el 13.7 ft and generally slope down from south to north. Numerous overhead and subterranean utilities were reported adjacent to the proposed footprint of the development. All utilities to remain must be protected during construction.

## PROPOSED DEVELOPMENT

The proposed development includes construction of a studio facility with associated support and production spaces that will vary in height from four stories to six stories. We understand the building will be a steel framed structure with concrete foundations. The development includes a single below-grade level that will primarily serve as vehicular parking. The first-floor slab will be

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<sup>1</sup> Elevations are with respect to the North American Vertical Datum of 1988 (NAVD88), which is reported to be 1.1 feet above the Mean Sea Level at Sandy Hook, New Jersey, 1929 (NGVD 1929) and 1.447 feet below the Brooklyn Datum (BD). (<https://r2-coastal-fema.hub.arcgis.com/pages/ad4b7f7a3ee14e03bfcc26aa6308caf6>)



elevated above the surrounding streets at el 18.75 ft. The top of the cellar slab will at el 8.25 ft. General excavation depths are anticipated to extend about 6.5 feet to 10.5 feet below existing grades. Additional excavation may be required for environmental remediation. Environmental issues and remediation are discussed under separate cover.

## **ADJACENT STRUCTURES**

The site is bordered by neighboring properties on the south and east. Details of the adjacent buildings were obtained via visual inspection of the exteriors, test pits performed as part of our subsurface investigation, and New York City Department of Buildings (DOB) online records. Foundation drawings for the adjacent structures were not available for review at the time of this report and no formal inspection was made from within the adjacent buildings. Numerous utilities are also located adjacent to the site. The adjacent structures and utilities are described in more details in the following sections.

### **166 Dikeman Street (Block 574, Lot 38)**

A one-to-three-story commercial building, identified as Block 574, Lot 38, adjoins the site's southern border. The structure is located on an about 2,500 square foot lot. DOB records indicate the building was constructed circa 1931 and does not contain a cellar level. The second floor/extended third floor was added circa 2016. Based on test pits performed by Langan, the building was observed to be supported by shallow foundations. The foundation was observed to consist of a continuous concrete footing/foundation wall bearing at between about el 9.5 ft and el 8.8 ft.

### **164 Dikeman Street (Block 574, Lot 37)**

A four-story residential building and associated rear yard, identified as Block 574, Lot 37, adjoins the site's southern border. The structure is located on an about 2,500 square foot lot. The northern edge of the building is offset about 38 feet from the property line. DOB records indicate the building was constructed circa 1931 and contains one cellar level. The exact location and extents of the below-grade space, as well as the type and extents of the foundations supporting the building are unknown.

### **160 Dikeman Street (Block 574, Lot 35)**

A one-to-four-story commercial building, identified as Block 574, Lot 35, adjoins the site's southern border. The structure is located on an about 5,000 square foot lot. DOB records and zoning documents indicate the building was constructed circa 2018 and does not contain a cellar level. TR-5 (Technical Report of Pile Driving) records indicate timber piles were installed as part of the building development. Within a test pit performed by Langan, a continuous wall atop concrete footing/pile cap was observed with the bottom extending to about el 9.2 ft; no piles were observed in the test pit, but the test pit was located beyond the building limits.

### **158 Dikeman Street (Block 574, Lot 34)**

A one-to-two-story commercial building, identified as Block 574, Lot 34, adjoins the site's southern border. The structure is located on an about 2,500 square foot lot. DOB records indicate the building was constructed circa 1990 and does not contain a cellar level. Based on test pits

performed by Langan, the building was observed to be supported by shallow foundations. The foundation was observed to consist of a concrete foundation wall bearing at about el 4.75 ft.

### **198 Conover Street (Block 574, Lot 30)**

A three-story residential building and associated rear yard, identified as Block 574, Lot 30, adjoins the sites southern border. The structure is located on an about 2,500 square foot lot. DOB records indicate the building was constructed circa 1901 and contains one cellar level. Based on test pits performed by Langan, the building was observed to be supported by shallow foundations. The foundation was observed to consist of a concrete foundation wall and brick footing bearing at about el 3 ft.

### **Utilities**

Numerous subterranean utilities, including but not limited to electric, gas, water, and sewer lines are present adjacent to the property. In addition, overhead telecommunication lines and utility poles are present. The size and extents of the subsurface utilities are unknown at this time. All utilities to remain must be protected during construction.

## **REVIEW OF PUBLISHED INFORMATION**

### **Regional Geology**

This site is underlain by bedrock of the Hartland Formation (middle Ordovician to lower Cambrian age) at depths greater than 100 feet. The bedrock in the area is generally composed of schistose and amphibolite rocks with variable levels of metamorphism. The surface geology is generally comprised of manmade fill placed atop glacially derived soils; alluvial deposits are present sporadically in areas located outboard of the original high-water line.

The Red Hook area was originally comprised largely of several small low-lying islands separated by tidal estuaries and ponds. The Red Hook area was filled incrementally between the mid to late 19<sup>th</sup> century to both raise surface grades as well as to extend the shoreline outward to the south and west. The site is located on the northern margins of a former island and straddles the original high-water line.

While the exact position of the original high water line varies slightly on historic mapping, the southern half to one-third of Lot 1 is generally depicted to lie upland of the high water line; Lot 23 is generally depicted to lie outboard of the high water line; and Lot 24 is generally depicted as being largely outboard of the high water line. Areas outboard of the high-water line are anticipated to contain alluvial deposits comprised of soft slightly organic silt and clay. Groundwater in the area is known to be shallow. A historic map showing the original high-water line is included as Figure 2.

### **FEMA Flood Maps**

The Federal Emergency Management Agency (FEMA) Preliminary Flood Insurance Rate Map (PFIRM), plate 3604970192G, dated 5 December 2013, govern flood zone compliance for the site. The subject PFIRM shows that the site falls within Zone AE and shaded Zone X. The Zone AE designation corresponds to "Special Flood Hazard Areas Subject to Inundation by the 1% Annual

Chance Flood” (100-year flood) having a mapped base flood elevation (BFE) of el 11 ft. The shaded Zone X designation corresponds to “areas of 0.2% annual chance flood.” An excerpt of the FEMA PFIRM map relative to the project site is shown in Figure 3.

Per the NYCBC, a minimum of 2 feet of free board must be provided above the BFE for Structural Occupancy Category II (non-residential). Therefore, the minimum design flood elevation (DFE) is el 13 ft. All structures and utilities located below the DFE must be floodproofed in accordance with the requirements of the NYCBC and ASCE 24.

## **SUBSURFACE INVESTIGATION**

Our subsurface investigation included: (1) drilling 15 geotechnical test borings with in situ testing and sampling of soil; (2) installing three groundwater observation wells; (3) performing seven seismic cone penetration tests (SCPTs); (4) excavating five test pits; (5) performing laboratory testing on representative soil samples; and (6) reviewing available historic boring data.

### **Geotechnical Test Borings**

Fifteen geotechnical test borings, identified as LB-07 through LB-21, were drilled within the project site. The borings were drilled by Craig Geotechnical Drilling Co., Inc. of Mays Landing, New Jersey between 1 February and 19 February 2024. All borings were drilled using a CME 75 truck-mounted drill rig. The borings were advanced to depths varying between 52 feet and 100 feet below existing grade. Langan provided full-time special inspection of all drilling operations in accordance with the NYCBC. The approximate locations of the borings are shown on the subsurface investigation plan in Figure 4.

The borings were advanced through soil using mud-rotary drilling techniques with a tri-cone roller bit and drilling fluid. Temporary flush-joint steel casing was installed through soils, as required, to stabilize the boreholes and prevent fluid loss during drilling. The boring locations were cleared of utilities using ground penetrating radar.

The Standard Penetration Test (SPT)<sup>2</sup> was performed in general accordance with ASTM D1586. SPT N-values<sup>3</sup>,  $N_{60}$ -values<sup>4</sup>, visual soil classifications, and other field observations were recorded by Langan’s engineer. Soils were sampled using a standard split-spoon sampler driven by an automatic hammer with a reported efficiency of about 101.6 for the drill rig<sup>5</sup>. All recovered soil samples were visually classified in the field in accordance with ASTM D2487 and the NYCBC. Soil classifications, SPT N-values,  $N_{60}$ -values, and other field observations were recorded on the boring logs presented in Appendix A.

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<sup>2</sup> The Standard Penetration Test is a measure of soil density and consistency. The testing involves driving a 2-inch outer-diameter split-spoon sampler a distance of 2 feet, using a 140-lb hammer free falling from a height of 30 inches.

<sup>3</sup> N-value – The number of blows required to drive a 2-inch diameter split-spoon sampler 12 inches after an initial “seating” penetration of 6 inches, using a 140-lb hammer free falling from a height of 30 inches.

<sup>4</sup> In accordance with the NYCBC, N-values were corrected for the hammer’s energy efficiency normalized to a value of 60 percent as follows:  $N_{60} = N_{\text{Field}}(\text{Hammer Efficiency}/60)$ .

<sup>5</sup> Hammer calibrations performed by GRL Engineers, Inc. per provided signed and sealed report titled “SPT Energy Calibration, dated 29 September 2023. See Appendix A for a copy of the calibration report.

## Groundwater Observation Wells

Groundwater observation wells were installed in boreholes LB-08(OW), LB-14(OW) and LB-19(OW) and groundwater levels were measured periodically during our subsurface investigation. The observation wells were generally constructed using a 10-foot section of 2-inch-diameter Schedule 40 PVC slotted well screen below a 10-foot section of solid riser pipe extending to grade. The annulus was backfilled with No. 1 filter sand to a minimum of 2 feet above the well screen; a 2-foot-thick minimum bentonite-pellet seal was installed above the filter sand. The remainder of the annulus was backfilled with drill cuttings and the top 2 feet were grouted to prevent surface water from influencing the well readings. A protective steel flush-mounted cap was installed at the ground surface at each well location. The observation well construction logs are included in Appendix A.

## Seismic Cone Penetration Testing

Nine seismic cone penetration tests (SCPTs), identified as SCPT-01 through SCPT-07, were performed within the project site. All cone penetration testing was performed by Craig Geotechnical Drilling Co., Inc. of Mays Landing, New Jersey on 6 and 7 February and 24 April 2024 in accordance with ASTM D5778. All SCPT locations, with the exception of SCPT-6a and SCPT-6b, were pre-drilled to a depth of 10 feet below grade. SCPT-6a and SCPT-6b were pre-drilled to a depth of 3 feet below grade. The SCPTs were advanced to refusal at depths varying from 35 feet to 79 feet below grade.

Cone penetration testing consist of pushing an instrumented stainless steel cone through soil overburden using hydraulic pressure while continuously collecting data. The cone measures penetration tip resistance, side friction, pore water pressure, and shear-wave velocity. Seismic testing to measure shear-wave velocities ( $V_s$ ) was performed at 1-meter intervals by generating vibrations at the ground surface and recording the shear-wave amplitude and travel time at a geophone mounted within the cone. The approximate locations of the SCPTs are shown in Figure 4. A copy of the SCPT data report is included in Appendix B.

## Test Pits

Five test pits, identified as TP-1 through TP-5, were excavated along the site's southern border to evaluate the type, size, and condition of the foundations supporting the neighboring buildings abutting the project site. The test pits were excavated using a mini-excavator and hand tools by Craig Geotechnical Drilling Co., Inc. of Mays Landing, New Jersey between 21 and 26 February 2024. Upon completion, the test pits were backfilled with excavated material and the surface patched with asphalt.

Approximate test pit locations are shown in Figure 4. Detailed test pit sketches and photographs are presented in Appendix C.

## Laboratory Testing

Laboratory testing was performed on select soil samples to evaluate engineering properties and verify visual classifications made in the field. Laboratory testing of soil samples included:

- Particle Size Distribution – ASTM D6913 (22 tests)

- Atterberg Limits – ASTM D4318 (4 tests)

The laboratory test results are provided in Appendix D.

## Previous Investigations

### Langan Subsurface Investigation (2020)

A subsurface investigation was completed by Langan in 2020. The subsurface investigation consisted of six borings (LB-01 through LB-06(OW)) and two groundwater observation wells (installed in LB-4(OW) and LB-6(OW)). Borings were drilled within the project site and within the sidewalks fronting the project site. Borings were drilled to depths varying between about 62 feet and 102 feet below existing grade.

In general, the subsurface conditions encountered in the 2020 investigation agree well with those encountered in the 2024 investigation. Approximate locations of the 2020 borings are shown on Figure 4. The historic boring and well logs are included in Appendix A.

## SUBSURFACE CONDITIONS

The general subsurface stratigraphy observed within the borings consists of uncontrolled fill underlain by a discontinuous layer of clay and silt underlain by sand. Bedrock was not encountered within the borings. Detailed descriptions of the observed subsurface conditions follow.

### **Stratum 1 – Uncontrolled Fill [NYCBC Class 7]<sup>6</sup>**

Uncontrolled fill was observed in all borings and generally consists of coarse to fine, medium to fine, or fine sand with variable concentrations of silt, clay, gravel, and miscellaneous debris (i.e., brick, concrete, wood, etc.).

The fill extended to depths varying from about 5 feet to 15 feet below grade, corresponding to about el 8.5 ft and el -2.8 ft, respectively. SPT  $N_{60}$ -values varied from WOR<sup>7</sup> to refusal (i.e., more than 100 blows over 6 inches of penetration) indicating density varying from very loose to dense. However, the higher recorded  $N_{60}$ -values are likely attributed to the presence of obstructions (miscellaneous debris, etc.) and are generally not considered a representative indicator of in-situ density.  $N_{60}$ -values were typically less than 20 blows per foot (bpf). The fill is generally considered to be loose to medium dense.

SCPT results indicate a cone tip resistance varying from about 30 tsf to 250 tsf and a sleeve friction varying from about 0.2 tsf to 2.5 tsf, and a shear wave velocity varying from about 410 ft/s to 810 ft/s (measured in SCPT-6a and SCPT-6b). Shear wave velocity was not recorded through the fill in the remaining SCPT tests as the locations were pre-drilled to about 10 feet below grade to clear potential obstructions that are common to fill materials.

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<sup>6</sup> Numbers in brackets indicate classification of soil and rock materials in accordance with the NYCBC.

<sup>7</sup> WOR = Weight of rods is penetration of split-spoon sampler under the static weight of the drilling rods.

The fill soil generally classifies as SP-SM (poorly graded sand – silty sand), SM (silty sands and sand-silt mixtures), and SP-SC (poorly graded sand – clayey sand) in accordance with USCS and Class 7 “Uncontrolled Fill” in accordance with the NYCBC.

### **Stratum 2a – Silt and Clay [Class 4b, 4c, 5b]**

A discontinuous layer of silt and clay was observed below the fill or interspersed with the Stratum 2b soils at shallow depth. The silt and clay soils were observed in borings LB-1 through LB-04 and LB-13 through LB-18. These borings fall outside the margins of the original highwater line (generally the northern/eastern half of the project site). Stratum 2a soils generally consist of clay with variable concentrations of fine sand, silt, and gravel or silt with variable concentrations of clay and fine sand. The top of the silt and clay layer was encountered as shallow as 10 feet and as deep as 27 feet below existing grade, corresponding to about el -1.2 ft and el -16.3 ft, respectively. The layer thickness varied from about 2 feet to about 10 feet. The bottom of the layer was observed between about el -3.2 ft and about el -24.7 ft. SPT  $N_{60}$ -values varied from 2 bpf to 68 bpf and were typically between 10 bpf and 20 bpf. The silt and clay layer is generally considered to be in a medium dense condition (silt soils) and a medium to stiff condition (clay soils).

SCPT results indicate a cone tip resistance varying from about 20 tsf to 120 tsf, a sleeve friction varying from about 0.5 tsf to 2.5 tsf, and a shear wave velocity varying from about 540 ft/s to 980 ft/s.

Four Atterberg Limits tests were performed on selected samples from the silt and clay layer. The samples had Liquid Limits varying from 25 to 30 percent, Plastic Limits of 20 percent, Plasticity Indices varying from 5 to 10, and Liquidity Indices varying from 0.2 to 2.8.

The silt and clay layer generally classifies as CL (inorganic clays of low to medium plasticity) or ML (non-plastic silt to medium plastic clayey silt) in accordance with the USCS, and Class 4b “Stiff Clay”, Class 4c “Medium Clay”, or Class 5b “Medium Dense Silts and Clayey Silts” in accordance with the NYCBC.

### **Stratum 2b – Granular Soils [Class 2a, 3a, 3b, 5a, and 6]**

Granular soils were observed either below the uncontrolled fill layer or Stratum 2a soils in all borings. The granular soils generally consist of coarse to fine, medium to fine, or fine sand with variable concentrations of silt, clay, and gravel. In some cases, silt or gravel constituted a predominant portion of the soil sample. The top of the granular soils layer was encountered as shallow as 5 feet and as deep as 17.5 feet below existing grade, corresponding to about el 8.5 ft and el -7.0 ft, respectively. The granular soils layer extended the full depth of all borings. SPT  $N_{60}$ -values varied from 2 bpf to refusal and were typically greater than 20 bpf. The granular soils layer is generally considered to be in a medium dense to dense condition. Density generally increased with depth.

SCPT results indicate a cone tip resistance varying from about 20 tsf to 410 tsf, a sleeve friction varying from about 0.1 tsf to 3.5 tsf, and a shear wave velocity varying from about 470 ft/s to 1710 ft/s.

Twenty-two particle size analyses were performed on selected samples from the granular soils layer. The samples had fines contents varied from 6.0 percent to 78.4 percent.

The granular soils layer generally classifies as SP-SM (poorly graded sand – silty sand), SM (silty sands and sand-silt mixtures), SP-SC (poorly graded sand – clayey sand), SC (clayey sands and sand-clay mixtures), GP (poorly graded gravels and gravel-sand mixtures), or ML (non-plastic silt to medium plastic clayey silt) in accordance with USCS, and typically classifies as Class 2a “Dense Sandy Gravel and Gravels), Class 3a “Dense Granular Soils”, Class 3b “Medium Dense Granular Soils”, Class 5a “Dense Silts and Clayey Silts”, or Class 6 “Loose” materials in accordance with the NYCBC.

### Groundwater

Groundwater levels were measured during the subsurface investigation at LB-08(OW), and LB-14(OW), and LB-19(OW). Groundwater was also measured in existing observation well LB-04(OW) which was installed as part of the 2020 Langan Subsurface Investigation; LB-06(OW) could not be located. Groundwater was observed to vary between about 7.7 feet and 12.7 feet below existing grade and between about el 2.8 ft and el 0.6 ft. Groundwater readings are summarized in Table 1 below. Please note that the groundwater level may vary seasonally, with changes in precipitation, and may be slightly tidally influenced.

**Table 1 – Groundwater Observation Well Data**

Well No.	Approximate Surface Elevation (feet, NAVD88)	Date	Depth Below Grade (feet)	Approximate Groundwater Elevation (feet, NAVD 88)
LB-04(OW)	±8.8	7/29/2020	7.8±	±1.0
		7/30/2020	7.7±	±1.1
		7/31/2020	7.8±	±1.0
		8/3/2020	7.8±	±1.0
		2/8/2024	7.7±	±1.1
		2/22/2024	8.1±	±0.7
		2/26/2024	8.2±	±0.6
LB-06(OW)	±13.3	7/31/2020	12.7±	±0.6
		7/31/2020	11.8±	±1.5
		8/3/2020	12.5±	±0.8
		8/3/2020	12.6±	±0.7
LB-08(OW)	±11.7	2/14/2024	10.3±	±1.4
		2/15/2024	10.6±	±1.1
		2/19/2024	10.8±	±0.9
		2/26/2024	10.7±	±1.0
LB-14(OW)	±10.7	2/19/2024	8.8±	±2.8
		2/21/2024	8.5±	±2.2
		2/22/2024	8.3±	±2.4
		2/26/2024	8.6±	±2.1
LB-19(OW)	±10.2	2/7/2024	8.8±	±1.4
		2/8/2024	8.8±	±1.4
		2/16/2024	9.0±	±1.2
		2/26/2024	9.1±	±1.1

## **TEST PIT FINDINGS**

Test pit findings are summarized in Table 2, and detailed sketches and photograph logs are provided in Appendix C. General descriptions of the observed conditions are as follows:

### **TP-1**

Test pit TP-1 was excavated on the western side of 166 Dikeman Street (Block 574, Lot 38) where the building transitions in height from two stories to one story. Beneath the one-story portion of the building, a concrete foundation wall supported by a 9-inch-thick continuous concrete footing was observed in the test pit. The bearing elevation of the concrete footing was at about el 8.8 ft. The footing was observed to stand proud about 8 inches from the face of the foundation wall. Beneath the two-story portion of the building, a concrete foundation wall was observed in the test pit. The bearing elevation of the concrete foundation wall was at about el 9.5 ft. The face of the foundation wall was observed to be in line with the face of the building above. The footing (one-story portion) and foundation wall (two-story portion) were observed to bear on fill soils generally consisting of coarse to fine sand with trace silt and trace coarse to fine gravel. Within the project site, concrete debris was observed within the test pit excavation that is likely associated with the remanent foundations from the previously demolished structures within the project site.

### **TP-2**

Test pit TP-2 was excavated on the northern side of 166 Dikeman Street (Block 574, Lot 38) at the rear one-story portion of the building. A concrete foundation wall supported by a 10-inch-thick continuous concrete footing was observed in the test pit. The bearing elevation of the concrete footing was at about el 8.9 ft. The footing was observed to stand proud about 5 inches from the face of the foundation wall and was observed to be about 2.7 feet wide. The footing was observed to bear on fill soils generally consisting of coarse to fine sand with trace silt and trace coarse to fine gravel. Within the project site, a remanent concrete slab associated with the previously demolished one-story industrial automotive maintenance building at the location of the test pit, and miscellaneous construction debris including timber and rebar were observed within the test pit excavation.

### **TP-3**

Test pit TP-3 was excavated on the northern side of 160 Dikeman Street (Block 574, Lot 35) at the rear one-story portion of the building. A concrete foundation wall was observed in the test pit. The bearing elevation of the concrete foundation wall was at about el 9.2 ft. The foundation wall was observed to stand proud about 4 inches from the face of the building above and was observed to be about 3 feet wide. The foundation wall was observed to bear on fill soils generally consisting of fine or medium to fine with variable concentrations of silt and construction debris (timber, brick, and shale). While DOB records indicate that the building may be supported by timber piles, no piles were observed within test pit TP-3. Within the project site, a remanent concrete pier foundation with a steel plate was observed within the test pit excavation that is likely a remnant foundation associated with previously demolished structures within the project site.



#### TP-4

Test pit TP-4 was excavated on the eastern side of 158 Dikeman Street (Block 574, Lot 34) at the rear one-story portion of the building. A concrete foundation wall was observed in the test pit. The bearing elevation of the concrete foundation wall was at about el 4.75 ft. The foundation wall was observed to stand proud about 2 inches from the face of the building above and was observed to be about 2.5 feet wide. The foundation wall was observed to bear on native soils generally consisting of medium to fine sand with some silt. Within the project site, a remanent brick wall was observed at the southern perimeter of the test pit excavation and is likely a remanent foundation wall associated with previously demolished structures within the project site.

#### TP-5

Test pit TP-5 was excavated on the northern side of 198 Conover Street (Block 574, Lot 30). A concrete foundation wall supported by a 2-foot-thick continuous brick footing was observed in the test pit. The bearing elevation of the brick footing was at about el 3 ft. The footing and foundation wall were observed to be in line with the face of the building above. The brick footing was observed to be about 12 inches wide. The footing was observed to bear on fill soils generally consisting of medium to fine sand with some silt and construction debris (brick). Within the project site, a remanent brick wall was observed at the northern perimeter of the test pit excavation and is likely a remanent foundation wall associated with previously demolished structures within the project site.

**Table 2 – Test Pit Findings Summary**

Test Pit No.	Adjacent Building Information			
	Adjacent Building	Approx. Bottom of Foundation		Foundation Type and Material
		Depth (feet)	Elevation (feet, NAVD88)	
TP-1	166 Dikeman Street (Block 574, Lot 38) 2-Story	3.7±	9.5±	Concrete Foundation Wall
TP-1	166 Dikeman Street (Block 574, Lot 38) 1-Story	4.8±	8.8±	Concrete Foundation Wall and Concrete Footing
TP-2	166 Dikeman Street (Block 574, Lot 38) 1-Story	1.8±	8.9±	Concrete Foundation Wall and Concrete Footing
TP-3	160 Dikeman Street (Block 574, Lot 35) 4-Story	1.7±	9.2±	Concrete Foundation Wall
TP-4	158 Dikeman Street (Block 574, Lot 34) 2-Story	5.6±	4.8±	Concrete Foundation Wall
TP-5	198 Conover Street (Block 574, Lot 30) 3-Story	7.0±	3.0±	Concrete Foundation Wall and Brick Footing

## SEISMIC ANALYSES

### Seismic Design Parameters

Seismic design parameters were determined in accordance with Section 1613.3 of the NYCBC and ASCE 7. Loose granular soils within Stratum 2 were observed within the northern and northeastern portions of the site. The Site Class was initially determined to be D without consideration of soil liquefaction based on the shear wave velocity data measured in the SCPTs. However, using the NYCBC site class adjusted general procedure peak ground acceleration ( $PGA_M$ ), several zones of soil were estimated to have a factor of safety against liquefaction of less than 1.0. In consideration of the liquefaction potential, the site was reclassified as Site Class F. As such, a site-specific seismic study (SSSS) was required in accordance with the requirements of the NYCBC.

A site-specific seismic study was subsequently performed following the requirements outlined in the NYCBC and ASCE 7. The recommended design spectral response accelerations at short periods ( $S_{DS}$ ) and 1-second periods ( $S_{D1}$ ) are given in Table 3. The Seismic Design Category (**SDC**) is categorized as **SDC C** in accordance with NYCBC Section 1613.3.5 for a Risk Category II structure (per the 145 Wolcott Schematic Design Narrative, dated 26 January 2024). Recommended values for the full design response spectrum are listed in Table 4. A copy of the site-specific seismic study report is provided in Appendix E.

**Table 3 – Site-Specific Seismic Design Parameters**

Description	Parameter	Recommended Value	NYCBC Reference
Site Class	-	<b>F</b>	Section 1613.3.4.1
5 percent damped design spectral response acceleration at short periods:	$S_{DS}$	0.423	**
5 percent damped design spectral response acceleration at 1-sec period:	$S_{D1}$	0.104	
Seismic Design Category	-	<b>C</b>	Table 1613.3.5
** Site-Specific Seismic Study Recommended parameter			

**Table 4 – Site-Specific Response Spectrum Values**

<b>Period T (sec)</b>	<b>Parameter</b>
0.000	0.096
0.063	0.423
0.200	0.423
0.269	0.322
0.530	0.307
0.568	0.262
0.684	0.211
0.825	0.177
1.000	0.104
1.200	0.063
>1.200	0.076/T

Should ground improvement be implemented and confirmed to mitigate liquefaction potential in the northeastern quadrant of the project site, the Site Class will be improved to Site Class D and seismic design parameters can be determined in accordance with Section 1613.3 of the NYCBC in lieu of the site-specific seismic design parameters listed in Table 3. For a Risk Category II structure, the resulting design spectral acceleration at short periods ( $S_{DS}$ ) is equal to 0.299g and the design spectral acceleration at 1-second ( $S_{D1}$ ) is equal to 0.095g. Post ground-improvement seismic design parameters are summarized in Table 5.

**Table 5 – Post-Ground Improvement Seismic Design Parameters**

Description	Parameter	Recommended Value	NYCBC Reference
Mapped Spectral Acceleration for short periods	$S_s$	0.286g	***
Mapped Spectral Acceleration for 1-sec periods	$S_1$	0.059g	
Site Class	-	<b>D</b>	***
Site Coefficient	$F_a$	1.572	***
Site Coefficient	$F_v$	2.4	***
5 percent damped design spectral response acceleration at short periods:	<b><math>S_{DS}</math></b>	<b>0.299g</b>	***
5 percent damped design spectral response acceleration at 1-sec period:	<b><math>S_{D1}</math></b>	<b>0.095g</b>	***
Site Modified Peak Ground Acceleration	<b><math>PGA_M</math></b>	<b>0.255g</b>	***
Structural Occupancy/Risk Category **	-	<b>II</b>	Table 1604.5
Seismic Design Category	-	<b>B</b>	Table 1613.3.5
** Per 145 Wolcott Schematic Design Narrative, dated 26 January 2024.			
*** Pursuant to Section 1613.3.1, all noted parameters determined using ASCE Hazards Tool ( <a href="https://asce7hazardtool.online/">https://asce7hazardtool.online/</a> )			

## Liquefaction Evaluation

The seismic provisions of the NYCBC require an evaluation of the liquefaction potential of noncohesive soils below the groundwater table, and up to 50 feet below the ground surface. Liquefaction potential was evaluated using the procedures outlined by Youd et al. (2001). Our initial analysis parameters included an earthquake magnitude of 5.6 and a  $PGA_M$  of 0.255g<sup>8</sup>. Based on the site-specific analyses, the  $PGA_M$  was reduced to 0.204g (80% of Site Class D  $PGA_M$ ). The site-specific liquefaction evaluation indicates that the northeastern corner of the site is subject to liquefaction. Potentially liquefiable zones range from about 18 feet to 40 feet below grade. The maximum estimated free-field ground settlement is about 3.8 inches at the northeastern corner of the site and less than about 0.25 inches for the rest of the site. As the building is expected to be pile supported and not subject to such free-field settlement, differential movement should be considered at utility points of entry in the northeast quadrant of the building. The liquefaction condition will reduce pile axial capacities locally in the northeast quadrant of the site as a result of downdrag. Pile lateral capacities are not expected to be greatly influenced as the potentially liquefiable soils typically occur relatively deep.

As discussed prior, if a ground improvement program is implemented and confirmed to mitigate liquefaction potential in the northeastern quadrant of the project site, the site-wide potential for liquefaction, liquefaction-induced settlement, and other seismic ground failure at the site would be unlikely. Liquefaction would need not be considered in design under such a scenario.

<sup>8</sup> Pursuant to NYCBC Section 1613.3.1,  $PGA_M$  was determined using ASCE Hazards Tool (<https://asce7hazardtool.online/>).

## DESIGN AND CONSTRUCTION CONSIDERATIONS

The following section briefly summarizes significant design and construction considerations associated with foundations for the proposed development:

- A portion of the site lies within the FEMA mapped 1% annual chance flood zone (Zone AE) flood designation with a base flood elevation (BFE) of el 11 ft. A design flood elevation (DFE) of el 13 ft must be used for the design of permanent structures (assumes as-of-right development scheme, not subject to discretionary action by DCP). All structures and utilities located below the DFE must be floodproofed in accordance with the requirements of the NYCBC and ASCE 24.
- The groundwater level measurements varied between about el 0.6 ft and el 2.8 ft. We recommend a design groundwater level of el 3 ft for the design of temporary support of excavation and dewatering. All permanent structures should be designed to accommodate the design flood elevation (DFE) of el 13 ft.
- The subsurface investigation indicates that the soils within the project site and beneath the proposed building footprint are not suitable for supporting the proposed structure using a shallow foundation system. Deep foundation elements are necessary to transfer loads into a suitable bearing stratum.
- The site should be designed assuming a Seismic Design Category (**SDC C** for Structural Occupancy/Risk Category II unless a ground improvement program is implemented to mitigate liquefaction concerns. Where a ground improvement program is not implemented, reduced foundation capacity and differential settlements must be considered in design.
- Structures assigned to **SDC C** must comply with NYCBC requirements for mechanical systems as detailed in Section 1613.6. Additionally, certain structural systems are limited as detailed in Section 1613.5.
- Ground improvement is considered a viable option to improve the site class to Site Class D and seismic design category of the building to **SDC B** by means of densification of soils exhibiting liquifiable behavior near the northeast quadrant of the site.
- Support of excavation (SOE) will be required where sufficient lateral clearance cannot be provided to permit OSHA compliant sloped/benched excavations. We expect that environmental remediation may control the depth of some excavations and necessitate localized dewatering.
- Existing buildings and utilities to remain must be protected and monitored during excavation and construction activities.

## DESIGN RECOMMENDATIONS

### Deep Foundations

Loose and compressible soils were observed throughout the site to depths of about 15 feet and have the potential for excessive settlement. Such settlements would likely be non-uniform across the site given the irregular nature of the existing subsurface conditions and the potential local changes to soil density resulting from environmental remediation work. In addition, the building

is expected to be subject to significant uplift under the design flood event. We recommend a deep foundation system be used to transfer the building loads to a suitable underlying bearing stratum and to resist uplift loading. Given the proximity to potentially vibration-sensitive structures (i.e., adjacent properties), we recommend that the building be supported by continuous flight auger (CFA) piles.

Final design and layout of the piles should be predicated on the final service loading developed by the project structural engineer. Furthermore, tensile and lateral capacities must be evaluated for potential group effects. The following sections provide additional details for foundation design.

### Continuous Flight Auger (CFA) Piles

Continuous flight auger (CFA) piles are a feasible deep foundation option for the site. CFA piles are a drilled foundation element in which the pile is drilled to the final depth in one continuous process using an auger. The auger is then gradually withdrawn, during which grout is placed through the hollow center of the auger to the base (i.e., bottom-up grouting). Reinforcing is placed into the fluid grout immediately after withdrawal of the auger, creating the pile. These piles will be designed as friction piles in soil, and their tips would likely terminate in dense soils meeting NYCBC Class 3a or better.

We estimate an axial compressive capacity of up to about 150 tons, a tensile capacity of up to about 55 tons, and a lateral capacity of 5 tons (assuming free head conditions) for an 18-inch-diameter, 75-foot-long CFA pile reinforced with a minimum of 1 #20 bar full length and a minimum 30-foot-long cage consisting of 7 #8 bars with #4 spiral transverse reinforcement at the top of the pile.

### *Seismic Design Category C Requirements*

Special requirements for seismic design of deep foundation elements apply to structures assigned to **SDC C**. All pile caps must be interconnected by ties capable of carrying the loads detailed in Section 1810.9.1. Alternatively, the connection may be provided by the floor slab or grade beams. Additionally, all pile-pile cap connections must be made by embedding element reinforcement into the pile cap as discussed in Section 1810.9.1.1.

Pile reinforcement is dictated by Sections 1812.1.2.3 and 1812.1.2.4, which detail minimum ratios and lengths for longitudinal reinforcement.

Should a ground improvement program be implemented, **SDC C** requirements need not be incorporated as the seismic design category would revert to **SDC B**.

### *Downdrag*

Liquefaction may result in downdrag on CFA piles in the northeastern quadrant of the site, reducing pile capacities in locally in that area. We estimate the pile design described above will have a reduced axial compressive capacity of 85 tons, a tensile capacity of 40 tons, and a lateral capacity of 4 tons (assuming free head conditions) where liquefiable conditions exist.

Should a ground improvement program be implemented and liquefiable zones be densified, the CFA piles will not be subject to downdrag and associated capacity reductions.

#### Estimated Settlements

Settlements of the CFA piles described above are estimated to be less than 0.5 inches. The majority of the settlement is expected to occur during construction as dead load is applied.

#### Load Tests

A minimum of five successful compression load tests will be required to verify capacities. In addition, at least four successful lateral load tests will be required where pile lateral loads exceed 1 ton. We also recommend a minimum of five successful tension (uplift) load tests be performed where piles are subject to uplift loads exceeding 10 tons. All load testing should be conducted in accordance with the requirements of the NYCBC and applicable ASTM standards. Additional load tests could be required if multiple pile types are utilized.

#### **Liquefaction Mitigation**

As noted prior, potentially liquefiable zones were identified in the northeastern quadrant of the site. In consideration of the liquefaction potential, the site is classified as Site Class F and categorized as Seismic Design Category (**SDC C**). Given the potentially liquefiable area is isolated to the northeastern corner of the site, a ground improvement program is considered feasible for mitigating liquefaction and improving the site class from Site Class F to Site Class D and the seismic design category from **SDC C** to **SDC B**. Liquefaction mitigation will thereby reduce structural loading demands, the potential for downdrag on deep foundations, and other code mandates such as bracing of MEP systems. We recommend that a cost benefit analysis be made to determine if the benefits of a ground improvement program outweigh those of designing to **SDC C**.

#### Ground Improvement

Since ground improvement systems are typically proprietary in nature, specialty contractors should be consulted. Generally, such work is executed as a delegated design subject to specified performance criteria. Ultimately, any ground improvement program must be verified through a code-required test program and testing generally would include completing post-improvement borings and/or CPTs to evaluate the efficacy of the treatment.

To evaluate the costs, we recommend that the following ground improvement systems be considered the most in the cost benefit analyses.

#### *Stone Columns*

Vibro-compacted or rammed aggregate stone columns consist of inclusions of high-friction angular stone placed and compacted into a targeted zone of soil to densify the soil matrix and improve drainage which reduces the potential for developing excess pore pressure during a seismic event. Typical installation consists of a drilled or mandrel driven hole to a predetermined depth and placing stone aggregate through hollow tooling at the bottom of the hole. The material

is then vibrated or compacted. This process is repeated in controlled lifts to build the stone column extending to the top of a zone of interest or the ground surface.

#### *Compaction Grouting*

Compaction grouting consists of pumping low slump concrete into the soil matrix under pressure to densify liquefiable zones.

#### *Jet Grouting*

Jet grouting consists of injecting and mixing cement in conjunction with high pressure water and/or air into the soil matrix to provide increased strength. This increased strength mitigates liquefaction by eliminated void space and inhibiting unstable soil particle interfaces that are otherwise subject to collapse when excess pore pressures develop.

### **Floor Slabs**

Where below the DFE, slabs and pit floors should be designed as pressure slabs. We recommend that pressure slabs be designed assuming hydrostatic uplift corresponding to the DFE (el 13 ft). Where possible, pressure slabs should be keyed into the building walls and should be cast with integral water-stops at all joints. Pressure slabs should be waterproofed as per the recommendations presented herein.

Ground floor slabs located above the DFE should be designed as structural slabs capable of spanning between points of support.

### **Below Grade Walls and Pits**

Permanent below-grade walls and pits should be designed to resist static earth pressures, hydrostatic pressures, and foundation and surface surcharge loadings. We recommend the below grade walls and pits be designed assuming a triangular distribution resulting from an equivalent fluid weight of 60 pounds per square foot (psf) per ft of depth above the DFE (el 13 ft) and 90 psf per ft of depth below the DFE. Lateral pressures from surcharge loads should be added as a uniform soil pressure equal to one-half the vertical pressure. Lateral loads from seismic events need not be included (both **SDC C** and **SDC B**).

### **Permanent Groundwater Control**

Structures such as slabs, pits, and vaults located below the DFE should be completely encapsulated using a membrane-type waterproofing system that is fully bonded to the concrete, unless wet floodproofing options are permissible. We recommend waterproofing such as those manufactured by GCP Applied Technologies, Carlisle Coatings and Waterproofing, and Henry (a Carlisle Company) are recommended. Waterstops should be installed at all cold joints in addition to the waterproofing membrane. The use of bentonite waterproofing or negative side crystalline waterproofing is not recommended.

The selection of waterproofing membranes should be coordinated with any environmental design/regulatory requirements (if any). New horizontally applied waterproofing membranes should be installed on a suitable substrate. A 2-inch to 3-inch-thick mud slab placed over an



approved subgrade to provide a smooth, uniform application surface is considered preferable. Vertically applied waterproofing membranes should extend up to grade. Substrate preparation should be in accordance with the manufacturer's recommendation.

Quality control is critical to a successful waterproofing project. The waterproofing installation should be inspected daily, especially during placement of reinforcement for the floor slabs and perimeter walls. Any holes or tears should be repaired in accordance with the manufacturer's recommendations and utility penetrations should be carefully sealed. All seams, including separations between wall and slab membranes should be checked for tightness. We recommend that the waterproofing manufacturer inspect the waterproofing operations during construction and approve all work prior to placement of concrete. We also suggest discussing waterproofing detailing with the selected manufacturer and recommend that a warranty be obtained from both the manufacturer and installer to cover materials and workmanship.

## **CONSTRUCTION RECOMMENDATIONS**

### **General Site Preparation**

Prior to general excavation, the project site should be stripped of any vegetation and deleterious material. In addition, pavements, utilities, curbs, and near-surface remanent foundations should be completely removed within the proposed building footprint. Utilities may be abandoned in place outside the building footprint, provided they are properly filled to prevent void formation in the event of future breakage. Where utilities cannot be properly abandoned, they should be completely removed.

Loose near surface soils, and other soils containing appreciable amounts of organic matter or construction debris (bricks, concrete, metal, timber, etc.) should be stripped. Soils proposed for re-use, if any, should be stockpiled outside the limits of the excavation and should be segregated to avoid commingling of differing materials. Re-use of existing materials may require processing such as screening and may be restricted by environmental conditions. Measures for erosion and sediment control should be installed as required.

### **Excavation**

General excavation is anticipated to typically extend to depths between about 6.5 feet and about 10.5 feet or less below existing grades. Isolated excavations for environmental remediation may extend up to 16 feet below existing grades. We anticipate that excavation of soils can be accomplished with conventional earthmoving equipment (i.e., track-hoes, etc.). Obstructions such as remanent foundations, abandoned and live utilities, rubble, and other construction debris should be anticipated when excavating and may require larger demolition equipment.

All excavations should be benched or sloped in accordance with applicable OSHA standards. Where required, temporary excavation support should be installed as per the recommendations presented herein.

### Temporary Support of Excavation

We anticipate excavations will generally extend to between about 6.5 feet and 10.5 feet or less below existing grades. Excavations can likely be sloped or benched to achieve the depths required for pile cap installation. We do not anticipate the need for temporary support of excavation (SOE). Should temporary SOE be required, we expect that conventional timber sheeted pits will be suitable.

Isolated excavations for environmental remediation may extend up to 16 feet below existing grades. Temporary SOE will be required to achieve excavation depths. Groundwater cut-off will also be desired to minimize dewatering during excavation. Based on the subsurface conditions, we expect that a sheet pile wall system with bracing is suitable; soldier piles and lagging are not recommended given the anticipated need for dewatering. Bracing may consist of external bracing (i.e., tiebacks) or internal bracing (i.e., rakers and heel blocks, corner braces, etc.). The design of the SOE system should consider the following minimum design parameters included in Table 4 below and following minimum loading conditions:

- Braced Excavations – Free draining or dewatered walls should be designed using a uniform pressure distribution of  $26H$  psf, where  $H$  is the total height of the wall. Walls that are not free draining or are not dewatered should also be designed using a uniform pressure of  $26H$  psf, where  $H$  is the total height of the wall, plus a triangular hydrostatic pressure of 62.4 psf per foot below the groundwater table (el 3 ft).
- Lateral pressures from surcharge loads should be added to the lateral earth pressure load. Surface surcharges should be added as an inverted triangle having a maximum pressure at the ground surface equal to one-half of the vertical surface load (minimum 300 psf). Lateral surcharge pressure can be reduced to zero at a depth of 15 feet below the ground surface.
- Lateral pressures resulting from adjacent structures (applicable for areas exterior of the building) should be determined using elastic methods and should be added to the above loads.
- Temporary construction loads are not considered herein and must be assessed on a case-by-case basis.

**Table 6 – Soil and Groundwater Design Parameters (SOE)**

Material	Parameter	Recommended Value
Groundwater	Elevation	el 3 ft
Uncontrolled Fill	Moist Unit Weight	115 pcf
	Friction Angle	32 degrees
	Cohesion	0 psf
Granular Soil	Moist Unit Weight	120 pcf
	Friction Angle	35 degrees
	Cohesion	0 psf

Where excavations abut or are in close proximity to existing structures and extend below the bearing level of existing foundations, underpinning will be required to support existing foundations.

The SOE system and/or any underpinning must be designed by a professional engineer, licensed in the State of New York. Construction of the SOE system and underpinning is subject to special inspection. The SOE system and underpinning should not be installed until adequate controls for survey monitoring of pertinent adjacent structures are in place. Additional details pertaining to underpinning follow.

### Underpinning

Where required, underpinning must be designed to consider both axial and lateral loads imposed by the building being underpinned and serve as a permanent foundation element. Where required, underpinning can likely be accomplished using continuous concrete piers extending 1 foot below the bearing elevation of the new foundations (i.e., pile caps). Underpinning piers should be proportioned so that the maximum bearing pressure does not exceed 3 tons per square foot (tsf), assuming the piers will bear within soils meeting NYCBC Class 3b or better. A shear key and steel reinforcement should be provided between adjacent piers to provide a continuous interlock. Where appropriate, the underpinning piers should be braced using systems such as wales, struts, rakers, or tiebacks. We recommend that piers be excavated in a single lift to mitigate potential for accumulating larger settlements that often occur when using multi-lift excavation schemes.

Piers are typically installed sequentially within individual braced pits about 4 feet wide and spaced about 16 feet to 20 feet on-center to limit the unsupported length beneath the existing foundations. The construction should be sequenced such that there is at least 12 feet to 16 feet of support between concurrently constructed pits. Care should be taken during excavation to prevent raveling of soils and undermining of the structure being supported. Steel wedges should be provided to transfer load between the building and underpinning piers. The remaining annulus between the foundation and underpinning pier should be packed with dry pack cement. Underpinning should be designed as a permanent foundation element in accordance with applicable code and reference standards.

Underpinning should not be performed until adequate controls for survey monitoring of the adjacent buildings are in place. Care must be taken to ensure that subgrades beneath and adjacent to the piers are not disturbed.

Please note Section 1817 of the NYCBC requires a “structural assessment” of all buildings to be underpinned or that will be alternatively shored using an SOE system (e.g., secant, tangent, soil mix, or other approved type of wall in front of the neighboring building in lieu of underpinning). To fulfill this requirement, an engineer who is familiar with the requirements of Section 1817 must structurally assess the building, its lateral system, load path, and prepare a report. The structural assessment and report are used in conjunction with a geotechnical assessment to identify appropriate means of support and to lay out design criteria.

### **Temporary Construction Dewatering**

Excavations for pile caps and slabs are not anticipated to extend below the groundwater table and significant temporary construction dewatering is not expected. However, some dewatering may be required to address surface water accumulation that may occur during precipitation events or perched water that could occur sporadically in areas containing higher concentrations

of silt or clay. We anticipate that sump pumping from gravel-filled trenches and local sump pits will be suitable for temporary groundwater control during construction.

Excavations in isolated areas of the project site for environmental remediation may extend below the groundwater table. Where excavations for environmental remediation extend more than 2 feet below the groundwater table, a more robust dewatering system may be required. Such systems may include well points. Regardless of system selection, the Contractor's dewatering system should be adequate for maintaining a "dry" subgrade during normal operating conditions.

Any groundwater discharged into NYC sewers will require temporary dewatering permits from the NYCDEP. A Long Island Well Permit will also be required for discharges exceeding 45 gpm. If utilizing an outfall sewer, a permit from the NYSDEC will be required. Treatment may be required where the groundwater is found insufficient for meeting water quality standards dictated by the regulatory agencies having jurisdiction. Permitting from the requisite agencies can often take three to four months.

### **Fill Materials, Placement, and Compaction**

Structural fill placed to establish the finished subgrade beneath pile caps, slabs, or as backfill behind new walls, should consist of controlled fill as defined by the NYCBC. Controlled fill must be well-graded sand and gravel having not more than 10 percent by dry weight passing the No. 200 sieve. The maximum particle size should be 4 inches. All fill materials should be free of organics, clay, and other deleterious or compressible materials. The use of the byproduct of blasting-tunneling (commercially known as mole rock) for backfill behind foundation walls or below slabs is not recommended. All fill materials should be approved by the Geotechnical Engineer prior to placement. Lean concrete or controlled low strength material (CLSM) may be substituted for structural fill.

Where wet subgrades are present below the groundwater table or from surface water runoff, we recommend that initial placement fill consist of free draining gravel or crushed stone in an effort to stabilize the subgrade prior to installation of structural fill soils. Free draining gravel or crushed stone should conform to the requirements of New York State Department of Transportation Item 605.0901, Underdrain Filter Type I or AASHTO No. 57 stone. These materials can be utilized to stabilize subgrades prior to placement of structural fill in cases where subgrade materials are not free draining and have the potential to be disturbed by compaction.

Fill should be placed in uniform loose lifts not exceeding 12-inches in thickness in open areas and 6-inches in thickness in confined areas. All fill placed below foundations and slabs should be compacted to at least 95% of its maximum dry density as determined by ASTM D1557. Compaction within 5 feet of foundation walls should be performed using hand operated equipment. The water content at the time of compaction should be within 2% of the optimum value determined by ASTM D1557. No fill should be placed on areas where free water is standing or on frozen subsoil areas.

Fill should not be placed on subgrades not inspected and approved by the Geotechnical Engineer.

## **ADDITIONAL RECOMMENDATIONS**

### **Additional Investigation**

#### Post-Ground Improvement Test Program

Should a ground improvement program be implemented, a post-improvement test program is required to evaluate the efficacy of the treatment. The test program may consist of borings and/or CPTs. The number of test locations will be determined based on the selected method of ground improvement and ground improvement element size and spacing.

### **Monitoring Program**

We recommend that a monitoring program be developed and incorporated into the Contract Documents to evaluate performance of adjacent buildings during construction. Monitoring should include means to measure vibrations as well as structural and ground movement. The type and locations of specific monitoring equipment, threshold values, and durations should be developed based on review of the anticipated construction means and methods in conjunction with the proximity to existing structures and utilities with relation to the project site. The purpose of performing monitoring is to provide reasonable feedback to the engineer as to performance of the contractor with respect to protecting existing structures and utilities, and to assess any necessary changes to means and methods of construction.

The monitoring program would likely include optical surveying, seismographs (vibration monitoring), groundwater monitoring wells and crack gauges. The monitoring plan should address means and methods for measuring ground and structural deformation, and vibration levels. We recommend that all monitoring be performed by a third-party consultant independent of the contractor; however, the contractor should reserve the right to perform additional monitoring. Monitoring should be performed throughout excavation and foundation construction.

### **Preconstruction Conditions Documentation**

We recommend preconstruction conditions documentation be conducted for all structures located within 100 feet of the project site as well as adjacent sidewalks, pavement, and utilities. Such documentation is required pursuant to Section 3309.4.3 of the NYCBC.

The purpose of these observations is to provide photographic and/or video documentation representative of general existing conditions, to identify obvious visual deficiencies, and to inform the design of excavations, and SOE and underpinning systems. The preconditions conditions documentation should be used to inform an observational and instrumentation monitoring program that can be used to evaluate the performance of adjacent structures and construction procedures and such documentation should also identify areas requiring specific monitoring during construction. This baseline information is often critical in the event of future damage claims resulting from construction activities. Structural integrity is not addressed in the preconstruction documentation (handled separately via the structural evaluation required pursuant to Section 1817 of the NYCBC).

While in the past, preconstruction conditions documentation was ordinarily performed about one month prior to construction activity, it is now needed earlier to help inform design of SOE and underpinning systems. The preconstruction conditions report must be signed and sealed by a licensed professional engineer and is required as a condition of plan approval on DOB filings for SOE and underpinning.

## **SPECIAL INSPECTIONS**

Excavation and foundation work are subject to various Special Inspections as per the requirements outlined in Chapter 17 of the NYCBC and the Rules of the City of New York. Construction activities that require geotechnical quality control inspections generally include support of excavation, deep foundations, foundation and slab subgrades, and fill placement and compaction. This work must be performed under the inspection of a qualified geotechnical engineer and should be performed by Langan. The inspecting engineer should be familiar with the subsurface conditions, as well as the proposed and existing construction onsite. All inspectors meet the requisite qualifications outlined in 1RCNY 101-06. In addition, while not required by the NYCBC, we recommend that regular inspections of waterproofing be made to mitigate the potential for leaks resulting from damaged or improperly installed materials.

## **CONSTRUCTION DOCUMENTS**

Technical specifications and design drawings should incorporate our recommendations to ensure that subsurface conditions and other geotechnical issues at the site are adequately addressed in the construction documents. Langan can prepare specification sections related to geotechnical issues such as earthwork, excavation support, deep foundations, monitoring, groundwater control, and waterproofing. Langan should also review foundation drawings and details, and all contractor submittals and construction procedures related to geotechnical work.

## **LIMITATIONS**

The conclusions and recommendations provided in this report are based on subsurface conditions inferred from a limited number of borings and in situ testing performed within and around the development parcel. The recommendations provided herein are dependent upon one another and no recommendation should be followed independent of the others.

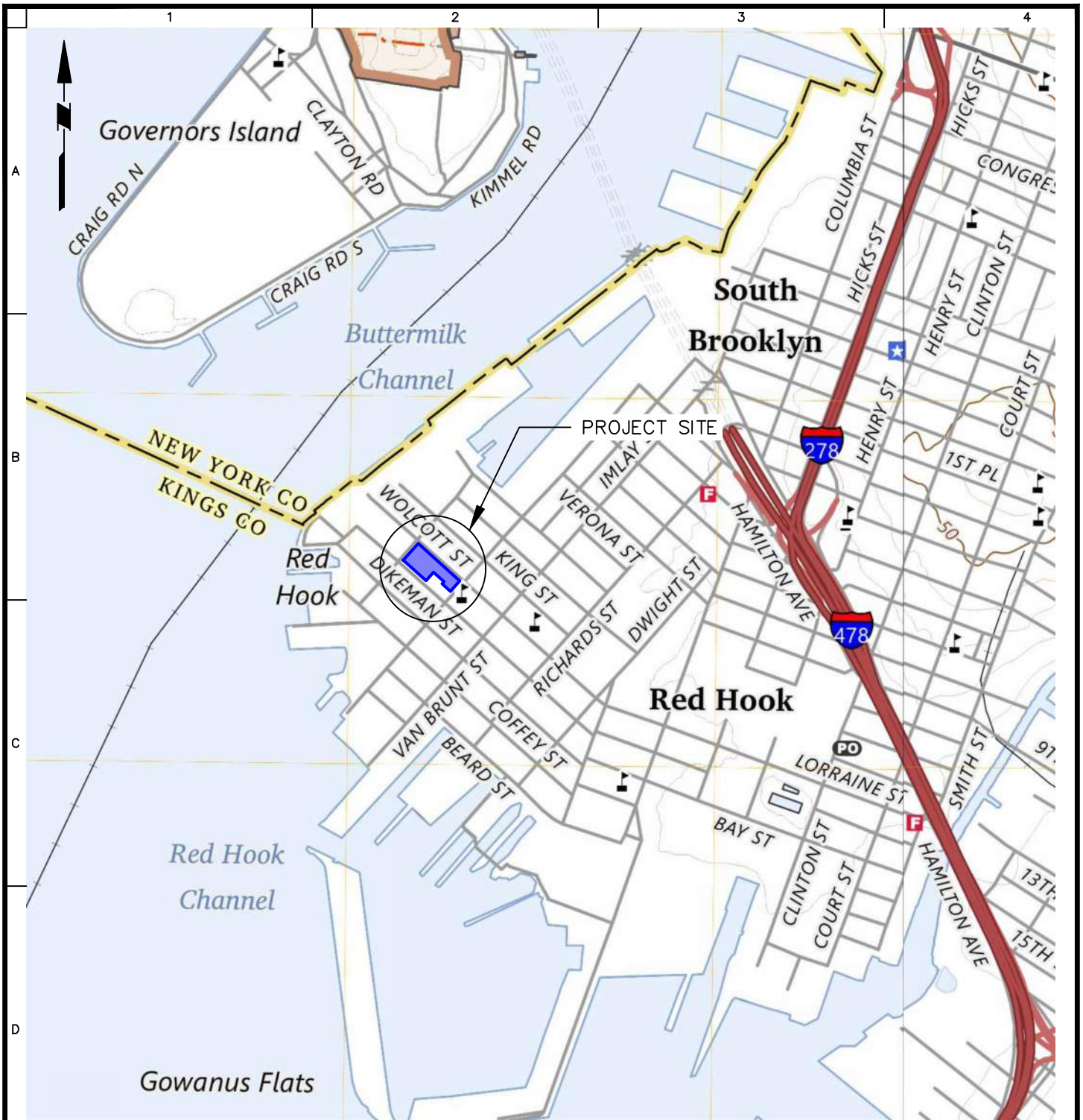
This report has been prepared to assist the owner, architect, and structural engineer in the design process and is only applicable to the envisioned project discussed herein. Any proposed changes in structures or their locations should be brought to our attention so that we can determine whether such changes affect our recommendations. Langan cannot assume responsibility for use of this report for any areas beyond the limits of this study or for any projects not specifically discussed herein. This report shall not be used for the design of temporary works including scaffolding, construction hoists, and crane pads.

Information on subsurface strata and groundwater levels shown on the logs represents conditions encountered only at the locations indicated and at the time of investigation. If different conditions are encountered during construction, they should immediately be brought to our attention for evaluation as this may affect our recommendations.

Environmental issues (such as potentially contaminated soil and groundwater) are outside the scope of this study.

# FIGURES

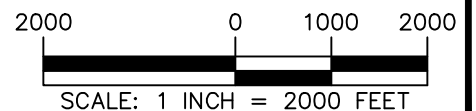




SOURCE: "JERSEY CITY QUADRANGLE, NEW YORK-NEW JERSEY 7.5-MINUTE SERIES" AND "BROOKLYN QUADRANGLE, NEW YORK 7.5-MINUTE SERIES", U.S. GEOLOGICAL SURVEY, 2023.

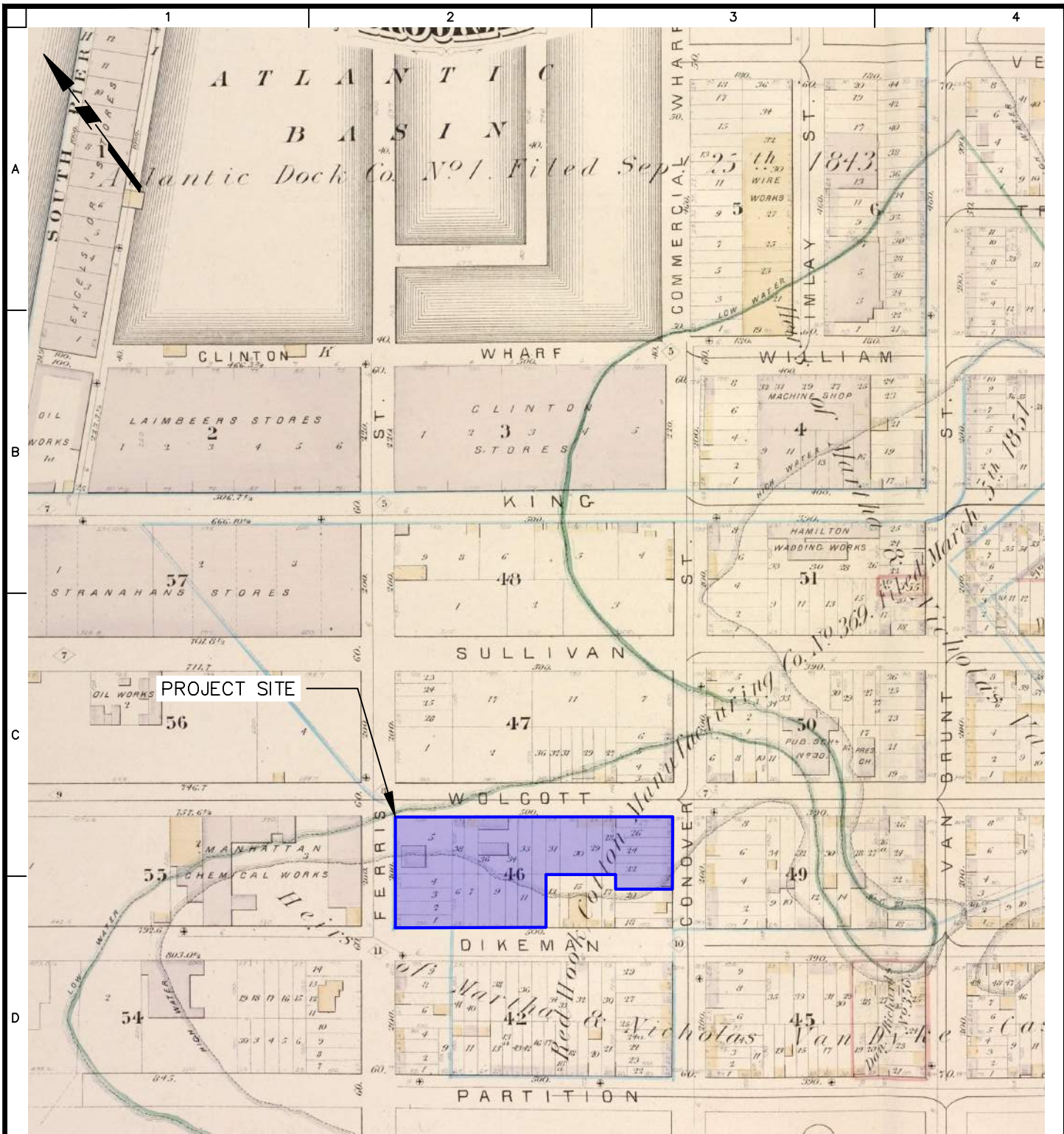
NOTE: ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

**WARNING:** IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.



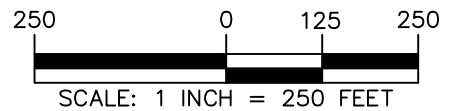
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	<b>145 WOLCOTT STREET</b>	<b>SITE LOCATION PLAN</b>	170562204	
	BLOCK No. 574, LOT Nos. 1, 23, 24 RED HOOK		Date 03/15/2024	
	BROOKLYN NEW YORK		Drawn By JLL Checked By SS	





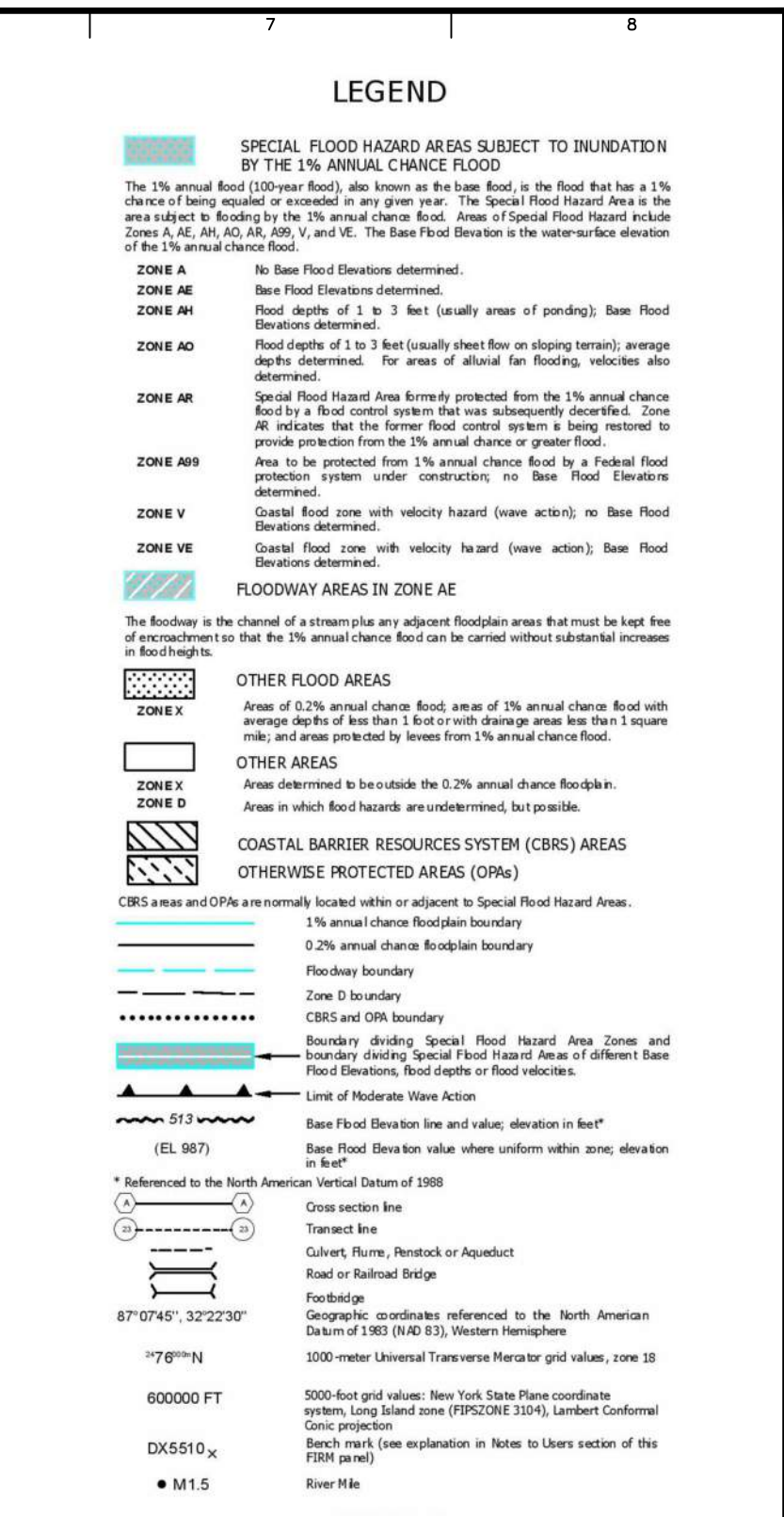
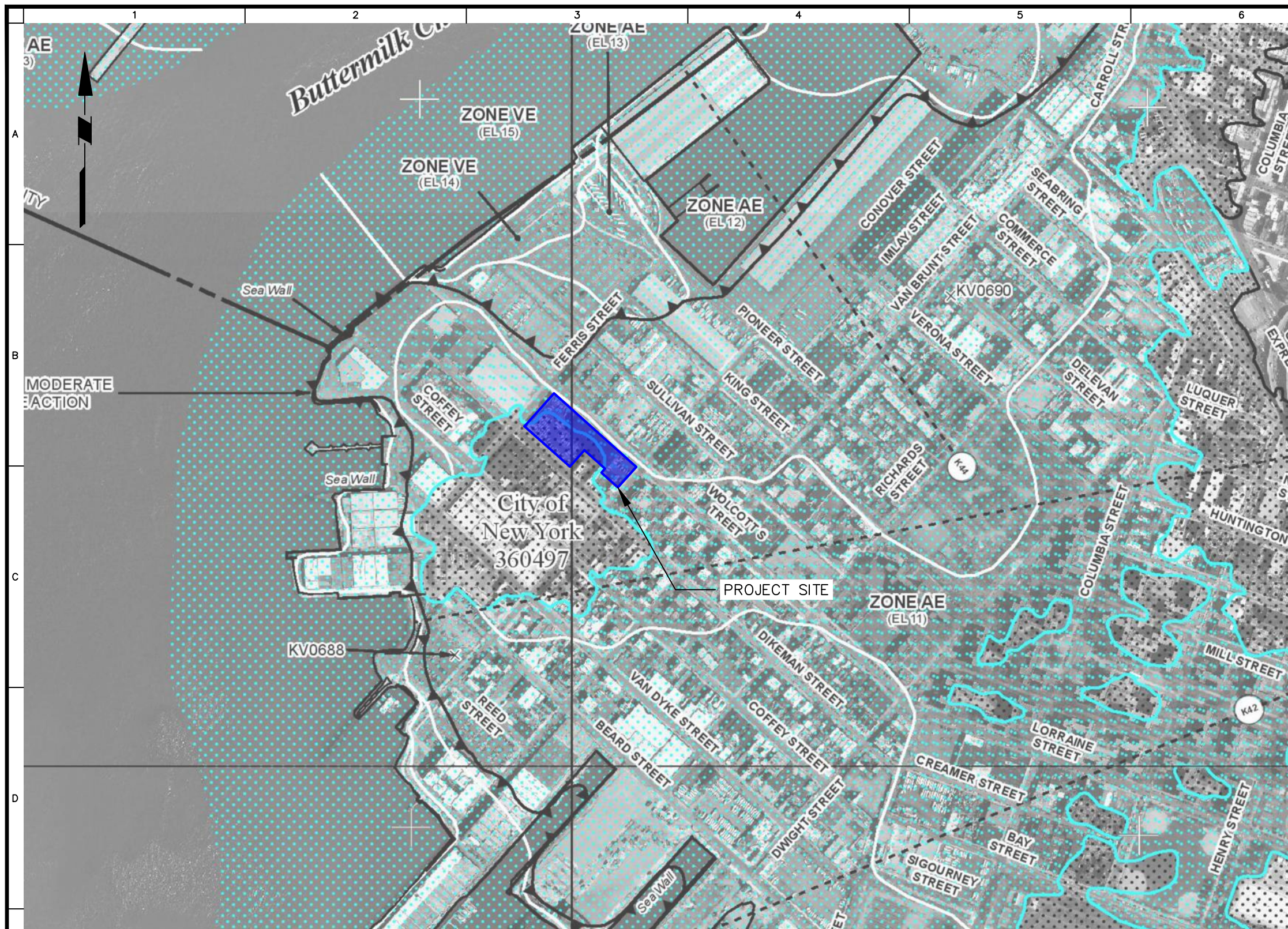
SOURCE: PORTION OF ATLAS OF THE BOROUGH OF BROOKLYN CITY OF NEW YORK BY E. BELCHERHYDE, 1857.

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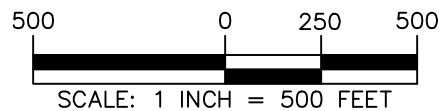
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	<b>145 WOLCOTT STREET</b>	<b>HISTORIC MAP</b>	170562204	
	BLOCK No. 574, LOT Nos. 1, 23, 24 RED HOOK		Date 03/15/2024	
	BROOKLYN NEW YORK		Drawn By JLL Checked By SS	
			Sheet 2 of 4	





SOURCE: FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM), CITY OF NEW YORK, PANELS 192 OF 457 [3604970192G], MAP REVISED, PRELIMINARY, 5 DECEMBER, 2013.

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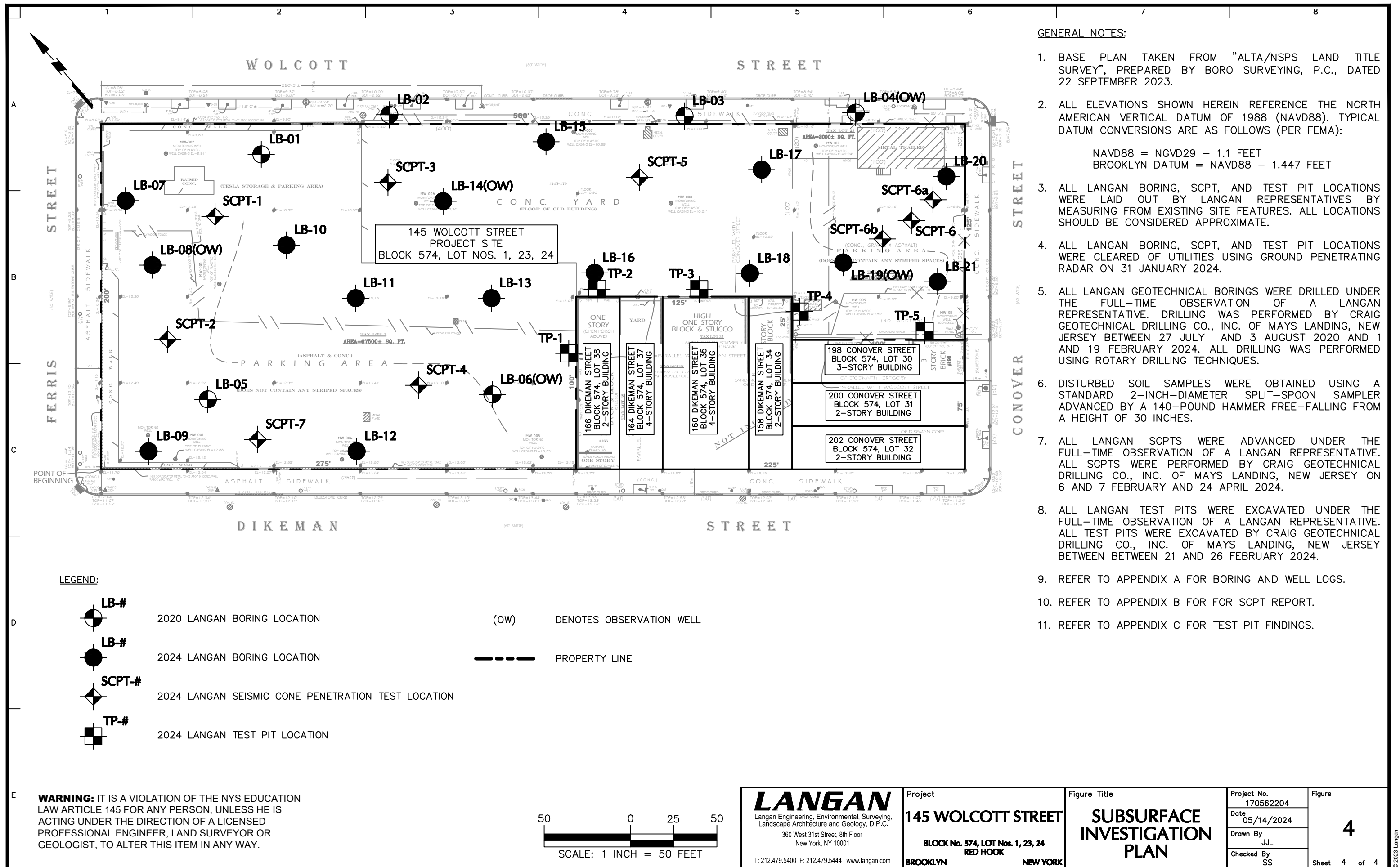
Project  
**145 WOLCOTT STREET**  
 BLOCK No. 574, LOT Nos. 1, 23, 24  
 RED HOOK  
 BROOKLYN NEW YORK

Figure Title  
**PRELIMINARY  
 FEMA FLOOD  
 HAZARD MAP**

Project No.  
 170562204  
 Date  
 03/15/2024  
 Drawn By  
 JUL  
 Checked By  
 SS

Figure  
**3**  
 Sheet 3 of 4



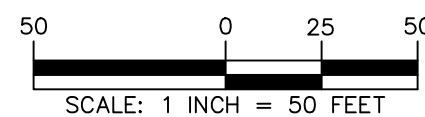


- GENERAL NOTES:**
1. BASE PLAN TAKEN FROM "ALTA/NSPS LAND TITLE SURVEY", PREPARED BY BORO SURVEYING, P.C., DATED 22 SEPTEMBER 2023.
  2. ALL ELEVATIONS SHOWN HEREIN REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). TYPICAL DATUM CONVERSIONS ARE AS FOLLOWS (PER FEMA):  
 NAVD88 = NGVD29 - 1.1 FEET  
 BROOKLYN DATUM = NAVD88 - 1.447 FEET
  3. ALL LANGAN BORING, SCPT, AND TEST PIT LOCATIONS WERE LAID OUT BY LANGAN REPRESENTATIVES BY MEASURING FROM EXISTING SITE FEATURES. ALL LOCATIONS SHOULD BE CONSIDERED APPROXIMATE.
  4. ALL LANGAN BORING, SCPT, AND TEST PIT LOCATIONS WERE CLEARED OF UTILITIES USING GROUND PENETRATING RADAR ON 31 JANUARY 2024.
  5. ALL LANGAN GEOTECHNICAL BORINGS WERE DRILLED UNDER THE FULL-TIME OBSERVATION OF A LANGAN REPRESENTATIVE. DRILLING WAS PERFORMED BY CRAIG GEOTECHNICAL DRILLING CO., INC. OF MAYS LANDING, NEW JERSEY BETWEEN 27 JULY AND 3 AUGUST 2020 AND 1 AND 19 FEBRUARY 2024. ALL DRILLING WAS PERFORMED USING ROTARY DRILLING TECHNIQUES.
  6. DISTURBED SOIL SAMPLES WERE OBTAINED USING A STANDARD 2-INCH-DIAMETER SPLIT-SPOON SAMPLER ADVANCED BY A 140-POUND HAMMER FREE-FALLING FROM A HEIGHT OF 30 INCHES.
  7. ALL LANGAN SCPTS WERE ADVANCED UNDER THE FULL-TIME OBSERVATION OF A LANGAN REPRESENTATIVE. ALL SCPTS WERE PERFORMED BY CRAIG GEOTECHNICAL DRILLING CO., INC. OF MAYS LANDING, NEW JERSEY ON 6 AND 7 FEBRUARY AND 24 APRIL 2024.
  8. ALL LANGAN TEST PITS WERE EXCAVATED UNDER THE FULL-TIME OBSERVATION OF A LANGAN REPRESENTATIVE. ALL TEST PITS WERE EXCAVATED BY CRAIG GEOTECHNICAL DRILLING CO., INC. OF MAYS LANDING, NEW JERSEY BETWEEN 21 AND 26 FEBRUARY 2024.
  9. REFER TO APPENDIX A FOR BORING AND WELL LOGS.
  10. REFER TO APPENDIX B FOR SCPT REPORT.
  11. REFER TO APPENDIX C FOR TEST PIT FINDINGS.

**LEGEND:**

- LB-# 2020 LANGAN BORING LOCATION
- LB-# 2024 LANGAN BORING LOCATION
- SCPT-# 2024 LANGAN SEISMIC CONE PENETRATION TEST LOCATION
- TP-# 2024 LANGAN TEST PIT LOCATION
- (OW) DENOTES OBSERVATION WELL
- - - - - PROPERTY LINE

**WARNING:** IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.



 Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com	Project <b>145 WOLCOTT STREET</b> BLOCK No. 574, LOT Nos. 1, 23, 24 RED HOOK BROOKLYN NEW YORK	Figure Title <b>SUBSURFACE INVESTIGATION PLAN</b>	Project No. 170562204 Date 05/14/2024 Drawn By JUL Checked By SS	Figure <b>4</b> Sheet 4 of 4
	© 2023 Langan			

# APPENDIX A

(2020 AND 2024 BORING LOGS, HAMMER  
EFFICIENCY, AND WELL LOGS)

Project 145 Wolcott Street				Project No. 170562204			
Location Brooklyn, New York				Elevation and Datum Approx. el. 10.4 (NAVD88)			
Drilling Company Craig Geotechnical Drilling				Date Started 8/3/2020		Date Finished 8/3/2020	
Drilling Equipment CME55				Completion Depth 62.0 ft		Rock Depth Not Encountered	
Size and Type of Bit 3-7/8in Tricone Roller Bit				Number of Samples Disturbed 19		Undisturbed 0 Core 0	
Casing Diameter (in) 4.0		Casing Depth (ft) 25.0		Water Level (ft.) First $\nabla$ N/A		Completion $\nabla$ N/A 24 HR. $\nabla$ N/A	
Casing Hammer Automatic		Weight (lbs) 140		Drop (in) 30		Drilling Foreman Nick Beehler	
Sampler 2in OD Split Spoon				Field Engineer Andrea Herrera			
Sampler Hammer Automatic		Weight (lbs) 140		Drop (in) 30			

Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recor. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft) 10 20 30 40		
	+10.4										
	+10.2	2-in Asphalt Pavement		0							8/3/2020 Drill through 2-inch-thick asphalt Take S-1 from 0ft to 2ft
		Black coarse to fine SAND, some Silt, trace Clay (dry) [FILL] (Class 7)		1	S-1	SS	24	15		44	
		Dark gray coarse to fine SAND, some Silt, trace Clay (dry) [FILL] (Class 7)		2				7			Take S-2 from 2ft to 4ft Petroleum odor
		Dark gray coarse to fine SAND, some Silt, trace Clay (dry) [FILL] (Class 7)		3	S-2	SS	24	8		24	Drive casing to 5ft Drill to 4ft, smooth drilling, dark gray wash
		Dark brown medium to fine SAND, some Silt, trace Clay (dry) [FILL] (Class 7)		4				14			Take S-3 from 4ft to 6ft Petroleum odor
		Dark brown medium to fine SAND, some Silt, trace Clay (dry) [FILL] (Class 7)		5	S-3	SS	14	23		57	
		Dark brown medium to fine SAND, some Silt, trace Clay (dry) [FILL] (Class 7)		6				8			Take S-4 from 6ft to 8ft Petroleum odor
		Dark brown medium to fine SAND, some Silt, trace Clay (dry) [FILL] (Class 7)		7	S-4	SS	13	8		28	Drill to 8ft, smooth drilling, gray wash
		Dark brown medium to fine SAND, some Silt, trace Clay (wet) [FILL] (Class 7)		8				2			Take S-5 from 8ft to 10ft Petroleum odor
		Dark brown medium to fine SAND, some Silt, trace Clay (wet) [FILL] (Class 7)		9	S-5	SS	8	2		6	Push casing to 10ft
		Dark brown medium to fine SAND, some Silt, trace Clay (wet) [FILL] (Class 7)		10				1			Take S-6 from 10ft to 12ft Petroleum odor
		Dark brown medium to fine SAND, some Silt, trace Clay, trace fine Gravel (wet) [FILL] (Class 7)		11	S-6	SS	14	1		4	Drill to 12ft, smooth drilling, brown wash
		Dark brown Silty CLAY (wet) [CL] (Class 4b)		12				2			Take S-7 from 12ft to 14ft Petroleum odor
		Dark brown Silty CLAY (wet) [CL] (Class 4b)		13	S-7	SS	13	3		8	Push casing to 15ft
		Dark brown Silty CLAY (wet) [CL] (Class 4b)		14				3			Take S-8 from 14ft to 16ft Drill to 16ft, smooth drilling, brown wash
		Dark brown medium to fine SAND, some Silt, trace Clay (wet) [SM] (Class 3b)		15	S-8	SS	21	3		9	
		Dark brown coarse to fine SAND, some Silt, trace Clay (wet) [SM] (Class 3a)		16				5			Take S-9 from 16ft to 18ft S-9: mc=28% LL=28, PL=21, PI=7
		Dark brown medium to fine SAND, some Silt, trace Clay (wet) [SM] (Class 3b)		17	S-9A	SS	20	9		26	
		Dark brown coarse to fine SAND, some Silt, trace Clay (wet) [SM] (Class 3a)		18	S-9B	SS		8			Take S-10 from 18ft to 20ft S-10: #200=25% #4=91%
				19	S-10	SS	9	8		30	Pockets of clay
				20							

\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.

Project		145 Wolcott Street		Project No.		170562204						
Location		Brooklyn, New York		Elevation and Datum				Approx. el. 10.4 (NAVD88)				
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft) 10 20 30 40			
	-9.6	Dark brown medium to fine SAND, some Silt, trace Clay (wet) [SM] (Class 3a)	0.0	20							Drill to 20ft, smooth drilling, brown wash	
					21	S-11	SS	14	19		42	Take S-11 from 20ft to 22ft
					22				21			Drill to 25ft, smooth drilling, brown wash
			No Recovery	0.0	23							
					24							
					25			14				Take S-12 from 25ft to 27ft
					26	S-12	SS	0	18		45	Drill to 30ft, smooth drilling, brown wash
					27				12			
					28							
					29							
			Dark brown medium to fine SAND, trace Silt (wet) [SP-SM] (Class 3a)	0.0	30			12				Take S-13 from 30ft to 32ft
					31	S-13	SS	7	18	14	48	S-13: #200=8.1%
					32				12			Drill to 35ft, smooth drilling, brown wash
					33							
					34							
		Dark brown coarse to fine SAND, some Silt, some fine Gravel (wet) [SM] (Class 3a)	0.0	35	S-14	SS	7	28	50/1"	75/1"	Take S-14 from 35ft to 37ft	
				36							Refusal encountered at 35.5ft, spoon bouncing	
				37							Drive casing 25ft	
				38							Drill to 40ft, smooth drilling, brown wash	
				39								
		Brown medium to fine SAND, trace Silt (wet) [SP-SM] (Class 3a)	0.0	40			21				Take S-15 from 40ft to 42ft	
				41	S-15	SS	14	31	22	80	S-15: #200=12.5%	
				42				35			Drill to 45ft, smooth drilling, brown wash	
				43								
				44								
				45								

\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.

Project		145 Wolcott Street		Project No.		170562204					
Location		Brooklyn, New York		Elevation and Datum		Approx. el. 10.4 (NAVD88)					
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40	
	-34.6	Brown fine SAND, trace Silt (wet) [SP-SM] (Class 3a)	0.0	45				22		Take S-16 from 45ft to 47ft Drill to 50ft, smooth drilling, brown wash	
			46	S-16	SS	12	32	21	80		
			47					37			
			Brown Silty fine SAND (wet) [SM] (Class 3a)	0.0	50				12		Take S-17 from 50ft to 52ft Drill to 55ft, smooth drilling, brown wash
				51	S-17	SS	16	21	15	54	
				52					19		
				53							
			Brown Silty fine SAND (wet) [SM] (Class 3a)	0.0	55				22		Take S-18 from 55ft to 57ft Drill to 60ft, smooth drilling, brown wash
				56	S-18	SS	20	25	24	74	
				57					21		
				58							
			Brown Silty fine SAND (wet) [SM] (Class 3a)	0.0	60				12		Take S-19 from 60ft to 62ft
		61		S-19	SS	15	13	13	39		
		62						12			
	-51.6	End of Boring at 62ft.		62						Bottom of boring at 62 feet below ground surface Extract casing Grout to existing grade	
				63							
				64							
				65							
				66							
				67							
				68							
				69							
				70							

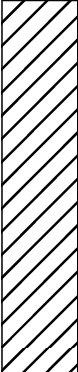
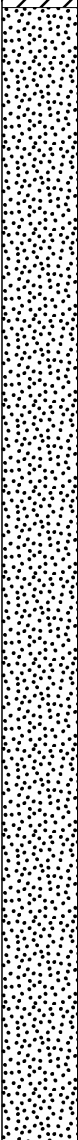
\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.



Project 145 Wolcott Street			Project No. 170562204		
Location Brooklyn, New York			Elevation and Datum Approx. el. 10.4 (NAVD88)		
Drilling Company Craig Geotechnical Drilling			Date Started 7/29/2020		Date Finished 7/29/2020
Drilling Equipment CME55			Completion Depth 102.0 ft		Rock Depth Not Encountered
Size and Type of Bit 3-7/8in Tricone Roller Bit			Number of Samples Disturbed 27		Undisturbed 0 Core 0
Casing Diameter (in) 4.0		Casing Depth (ft) 20.0	Water Level (ft.) First $\nabla$ N/A		Completion $\nabla$ N/A 24 HR. $\nabla$ N/A
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30	Drilling Foreman Nick Beehler		
Sampler 2in OD Split Spoon			Field Engineer Andrea Herrera		
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30			

Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft) 10 20 30 40		
	+10.4										
	+10.2	3-in Concrete Pavement	0.0	0							7/29/2020 Drill through 3-inch-thick concrete Take S-1 from 0ft to 2ft
		Light brown Silty fine SAND, trace Clay (dry) [FILL] (Class 7)		1	S-1	SS	24	3	8		
		Light brown Silty fine SAND, trace Clay (dry) [FILL] (Class 7)	0.0	2			4	3			Take S-2 from 2ft to 4ft Spin casing to 5ft Drill to 4ft, smooth drilling, brown wash
		Light brown Silty fine SAND, trace Clay (dry) [FILL] (Class 7)	0.0	3	S-2	SS	13	2	8		
		Light brown Silty fine SAND, trace Clay (dry) [FILL] (Class 7)	0.0	4			4	3			Take S-3 from 4ft to 6ft
		Light brown Silty fine SAND, trace Clay (dry) [FILL] (Class 7)	0.0	5	S-3	SS	12	3	9		
		Light brown Silty fine SAND, trace Clay (dry) [FILL] (Class 7)	0.0	6			4	4			Take S-4 from 6ft to 8ft Sulfur and petroleum odor Drill to 8ft, smooth drilling, brown wash
		Light brown Silty fine SAND, trace Clay (dry) [FILL] (Class 7)	1.8	7	S-4	SS	10	1	6		
		Light brown Silty fine SAND, trace Clay (dry) [FILL] (Class 7)		8							Take S-5 from 8ft to 10ft Sulfur and petroleum odor
		Gray Silty fine SAND, trace Clay (dry) [FILL] (Class 7)		9	S-5A	SS	15				
		Dark brown Silty fine SAND (wet) [FILL] (Class 7)		9	S-5B	SS					
			2.3	10							Take S-6 from 10ft to 12ft Pockets of clay Drill to 15ft, smooth drilling, brown wash
				11	S-6	SS	15	12	38		
				12							
				13							
				14							
				15							Take S-7 from 15ft to 17ft S-7: #200=37.1%
	-4.6	Brown Silty SAND (wet) [SM] (Class 3b)	0.0	16	S-7	SS	15	6	18		
		Brown Silty SAND (wet) [SM] (Class 3b)	0.0	17							Take S-8 from 17ft to 19ft Pockets of clay Drill to 19ft, smooth drilling, brown wash
				18	S-8	SS	18	5	18		
				19							Take S-9 from 19ft to 21ft S-9: mc=27% LL=30, PL=21, PI=9
				20							

\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.

Project		Project No.								
145 Wolcott Street		170562204								
Location		Elevation and Datum								
Brooklyn, New York		Approx. el. 10.4 (NAVD88)								
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40
	-9.6	No Recovery		20	S-9	SS	21	6	15	Take S-10 from 21ft to 23ft Drill to 23ft, smooth drilling, brown wash  Take S-11 from 23ft to 25ft  Take S-12 from 25ft to 27ft S-12: mc=29% LL=26, PL=18 ,PI=8  Push casing to 15ft Drive casing to 20ft Drill to 30ft, smooth drilling, brown wash  Take S-13 from 30ft to 32ft Refusal encountered at 30.5ft, spoon bouncing Switch to core barrel Recovered 8-inch cobble Drill to 35ft, smooth drilling, brown wash  Take S-14 from 35ft to 37ft S-14: #200=14.9%  Drill to 40ft, smooth drilling, brown wash  Take S-15 from 40ft to 42ft Drill to 45ft, smooth drilling, brown wash
		Brown CLAY (wet) [CL] (Class 4a)		21				8	39	
				22	S-10	SS	0	13		
				23				16		
		Brown CLAY (wet) [CL] (Class 4a)		24	S-11	SS	21	15	39	
				25				15		
		Brown CLAY (wet) [CL] (Class 4a)		26	S-12A	SS	24	25	68	
				27	S-12B			44		
				28						
				29						
	-15.8	Dark brown to gray coarse to fine Silty SAND, trace fine Gravel (wet) [SM] (Class 3a)		30	S-13	SS	8	11	75/1"	
		Dark brown to gray coarse to fine Silty SAND, some fine Gravel (wet) [SM] (Class 3a)		31						
				32						
				33						
				34						
		Brown medium to fine SAND, some Silt (wet) [SM] (Class 3a)		35				9		
				36	S-14	SS	13	15	44	
				37				15		
				38						
				39						
				40				14		
		Brown medium to fine SAND, some Silt (wet) [SM] (Class 3a)		41	S-15	SS	15	16	46	
				42				17		
				43						
				44						
			45							

\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.

Project		145 Wolcott Street		Project No.		170562204						
Location		Brooklyn, New York		Elevation and Datum				Approx. el. 10.4 (NAVD88)				
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft)			
	-34.6	Brown medium to fine SAND, some Silt (wet) [SM] (Class 3a)	0.0	45				13			Take S-16 from 45ft to 47ft Drill to 50ft, smooth drilling, brown wash	
			46	S-16	SS	20	15		46			
			47					21				
			48									
			Brown medium to fine SAND, some Silt (wet) [SM] (Class 3a)	0.0	50				15			Take S-17 from 50ft to 52ft Drill to 55ft, smooth drilling, brown wash
		51		S-17	SS	15	28		75			
		52						30				
		53										
			Brown medium to fine SAND, some Silt (wet) [SM] (Class 3a)	0.0	55				20			Take S-18 from 55ft to 57ft Drill to 60ft, smooth drilling, brown wash
		56		S-18	SS	24	33		92			
		57						37				
		58										
			Brown fine SAND, some Silt (wet) [SM] (Class 3a)	0.0	60				15			Take S-19 from 60ft to 62ft Drill to 65ft, smooth drilling, brown wash
		61		S-19	SS	17	25		69			
		62						30				
		63										
			Brown fine SAND, some Silt (wet) [SM] (Class 3a)	0.0	65				19			Take S-20 from 65ft to 67ft Drill to 70ft, smooth drilling, brown wash
		66		S-20	SS	19	31		87			
		67						38				
		68										
				69								
				70								

\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.

Project		Project No.									
145 Wolcott Street		170562204									
Location		Elevation and Datum									
Brooklyn, New York		Approx. el. 10.4 (NAVD88)									
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40	
	-59.6	Brown fine SAND, some Silt (wet) [SM] (Class 3a)	0.0	70			19			Take S-21 from 70ft to 72ft Drill to 75ft, smooth drilling, brown wash	
				71	S-21	SS	18	29	104		
				72				40			
			Brown fine SAND, some Silt (wet) [SM] (Class 3a)	0.0	75			22			Take S-22 from 75ft to 77ft Drill to 80ft, smooth drilling, brown wash
					76	S-22	SS	20	32	117	
					77			46			
			Brown fine SAND, some Silt (wet) [SM] (Class 3a)	0.0	80			24			Take S-23 from 80ft to 82ft Drill to 85ft, smooth drilling, brown wash
					81	S-23	SS	22	34	111	
					82			40			
			Brown fine SAND, some Silt, trace Clay, trace fine Gravel (wet) [SM] (Class 3a)	0.0	85			26			Take S-24 from 85ft to 87ft Drill to 90ft, smooth drilling, brown wash
					86	S-24	SS	18	37	116	
					87			40			
			Reddish brown SAND, some Silt (wet) [SM] (Class 3a)	1.7	90			27			Take S-25 from 90ft to 92ft Drill to 95ft, smooth drilling, brown wash
					91	S-25	SS	18	33	110	
					92			40			

\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.

Project		145 Wolcott Street		Project No.		170562204				
Location		Brooklyn, New York		Elevation and Datum		Approx. el. 10.4 (NAVD88)				
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft)
	-84.6	Reddish brown Silty SAND (wet) [SM] (Class 3a)	0.0	95				22		Take S-26 from 95ft to 97ft Drill to 100ft, smooth drilling, brown wash
				96	S-26	SS	24	40	116	
				97				40		
				98						
				99						
		Reddish brown Silty SAND (wet) [SM] (Class 3a)	0.0	100				18		Take S-27 from 100ft to 102ft
				101	S-27	SS	18	37	98	
				102				30		Bottom of boring at 102ft below ground surface Extract casing Grout to existing grade
		End of Boring at 102ft.		103						
				104						
				105						
				106						
				107						
				108						
				109						
				110						
				111						
				112						
				113						
				114						
				115						
				116						
				117						
				118						
				119						
				120						

\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.

Project 145 Wolcott Street			Project No. 170562204		
Location Brooklyn, New York			Elevation and Datum Approx. el. 9.8 (NAVD88)		
Drilling Company Craig Geotechnical Drilling			Date Started 7/28/2020		Date Finished 7/28/2020
Drilling Equipment CME55			Completion Depth 102.0 ft		Rock Depth Not Encountered
Size and Type of Bit 3-7/8in Tricone Roller Bit			Number of Samples Disturbed 26		Undisturbed 0 Core 0
Casing Diameter (in) 4.0		Casing Depth (ft) 20.0	Water Level (ft.) First $\nabla$ N/A		Completion $\nabla$ N/A 24 HR. $\nabla$ N/A
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30	Drilling Foreman Nick Beehler		
Sampler 2in OD Split Spoon			Field Engineer Andrea Herrera		
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30			

Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40
	+9.8									
	+9.6	3-in Concrete Pavement	0.0	0				5	7/28/2020 Drill through 3-inch concrete pavement Take S-1 from 0ft to 2ft	
		Brown SILT, trace fine Sand (dry) [FILL] (Class 7)		1	S-1	SS	14	3	5	12
		Brown Silty SAND, trace Clay (dry) [FILL] (Class 7)	0.0	2				3		
				3	S-2	SS	12	4	4	12
		Brown SAND, some Silt (dry) [FILL] (Class 7)	0.0	4				2		
				5	S-3	SS	8	4	4	12
		Brown medium to fine SAND, some Silt, trace fine Gravel (dry) [FILL] (Class 7)	0.0	6				4		
				7	S-4	SS	12	1	3	6
		Dark gray Silty fine SAND (wet) [FILL] (Class 7)	27.0	8				1		
				9	S-5	SS	18	1	2	4
		No Recovery		10				1		
				11	S-6	SS	0	3	2	8
		Dark gray Silty fine SAND (wet) [FILL] (Class 7)	33.6	12				4		
				13	S-7	SS	17	9	4	20
	-4.2	Dark brown Silty fine SAND, trace Clay (wet) [SM] (Class 3b)		14						
			0.2	15				6		
				16	S-8	SS	14	9	8	26
				17						
				18						
				19						
	-10.2			20						

\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.

Project		Project No.								
145 Wolcott Street		170562204								
Location		Elevation and Datum								
Brooklyn, New York		Approx. el. 9.8 (NAVD88)								
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40
	-10.2	Brown Sandy SILT, trace Clay (wet) [ML] (Class 5b)	0.2	20				2		Take S-9 from 20ft to 22ft S-9: #200=62.0%
				21	S-9	SS	12	9		
				22					3	
				23						
				24						
		Brown Sandy SILT, trace Clay (wet) [ML] (Class 5b)	0.2	25				3		Take S-10 from 25ft to 27ft S-10: #200=63.2%
				26	S-10	SS	21	6		
				27					9	
		Brown Silty SAND, some Clay (wet) [SM] (Class 3a)	0.0	28	S-11A	SS	24	12		Take S-12 from 30ft to 32ft Drill to 35ft, smooth drilling, gray wash
				29	S-11B			13		
		Brown medium to fine SAND, some Silt, trace Clay (wet) [SM] (Class 3a)		30				9		Take S-14 from 40ft to 42ft Drill to 45ft, smooth drilling, gray wash
				31	S-12	SS	14	12		
				32					17	
				33						
				34						
		Brown fine SAND, some Silt (wet) [SM] (Class 3a)	0.0	35				11		Take S-13 from 35ft to 37ft Drill to 40ft, smooth drilling, gray wash
				36	S-13	SS	15	14		
				37					14	
				38						
				39						
				40				9		Take S-14 from 40ft to 42ft Drill to 45ft, smooth drilling, gray wash
				41	S-14	SS	21	17		
				42					13	
				43						
				44						
				45						

\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.

Project		145 Wolcott Street		Project No.		170562204						
Location		Brooklyn, New York		Elevation and Datum		Approx. el. 9.8 (NAVD88)						
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)			
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft)		
	-35.2	Brown fine SAND, some Silt (wet) [SM] (Class 3a)	0.1	45				9			Take S-15 from 45ft to 47ft Drill to 50ft, smooth drilling, gray wash	
				46	S-15	SS	22	14	11	38		
				47					13			
			Brown Silty fine SAND (wet) [SM] (Class 3a)	0.0	50				11			Take S-16 from 50ft to 52ft Drill to 55ft, smooth drilling, brown wash
					51	S-16	SS	22	18	16	51	
					52				17			
			Brown Silty fine SAND (wet) [SM] (Class 3a)	0.0	55				18			Take S-17 from 55ft to 57ft Drill to 60ft, smooth drilling, brown wash
					56	S-17	SS	22	19	16	52	
					57				17			
			Brown Silty fine SAND (wet) [SM] (Class 3a)	0.1	60				16			Take S-18 from 60ft to 62ft Drill to 65ft, smooth drilling, brown wash
					61	S-18	SS	23	23	16	58	
					62				20			
			Brown Silty fine SAND (wet) [SM] (Class 3a)	0.0	65				12			Take S-19 from 65ft to 67ft Drill to 70ft, smooth drilling, brown wash
					66	S-19	SS	23	14	21	52	
					67				26			
					68							
					69							
					70							

\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.



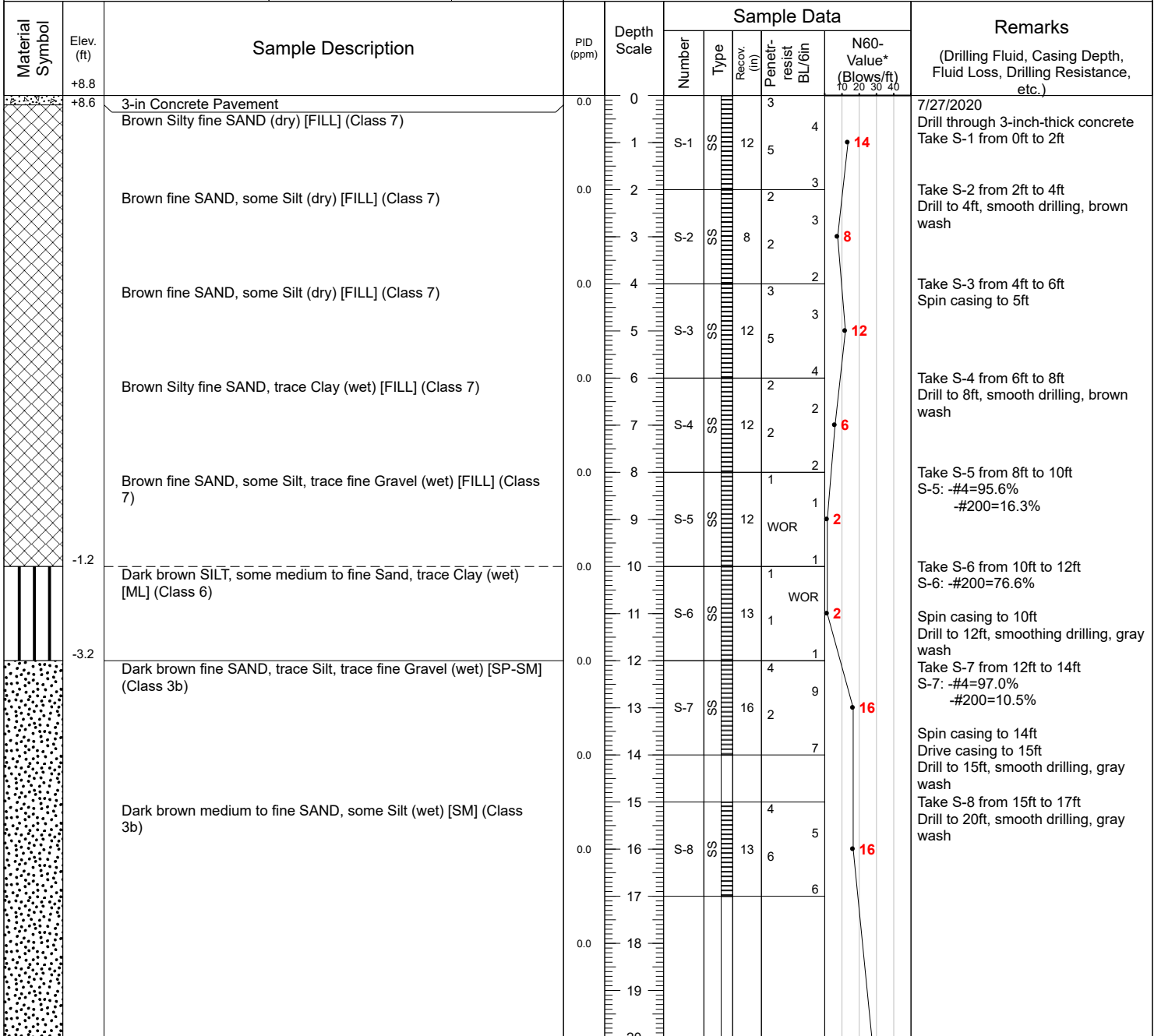
Project		Project No.										
145 Wolcott Street		170562204										
Location		Elevation and Datum										
Brooklyn, New York		Approx. el. 9.8 (NAVD88)										
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)			
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40		
	-60.2	Brown Silty fine SAND (wet) [SM] (Class 3a)	0.0	70				20			Take S-20 from 70ft to 72ft Drill to 75ft, smooth drilling, brown wash	
				71	S-20	SS	22	26		75		
				72				20				
				73								
			Brown Silty fine SAND (wet) [SM] (Class 3a)	0.0	75				16			Take S-21 from 75ft to 77ft Drill to 80ft, smooth drilling, brown wash
					76	S-21	SS	24	19		54	
					77				21			
					78							
			Brown Silty fine SAND, trace Clay (wet) [SM] (Class 3a)	0.0	80				22			Take S-22 from 80ft to 82ft Drill to 85ft, smooth drilling, brown wash
					81	S-22	SS	20	30		88	
					82				30			
					83							
			Brown Silty fine SAND, trace Clay (wet) [SM] (Class 3a)	0.0	85				23			Take S-23 from 85ft to 87ft Drill to 90ft, smooth drilling, brown wash
					86	S-23	SS	24	32		90	
					87				30			
					88							
			Brown Silty fine SAND (wet) [SM] (Class 3a)	0.2	90				16			Take S-24 from 90ft to 92ft Drill to 95ft, smooth drilling, brown wash
					91	S-24	SS	22	31		84	
					92				32			
					93							
					94							
					95							

\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.

Project		145 Wolcott Street		Project No.		170562204				
Location		Brooklyn, New York		Elevation and Datum		Approx. el. 9.8 (NAVD88)				
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40
	-85.2	Brown Silty fine SAND (wet) [SM] (Class 3a)	0.0	95	S-25	SS	22	28	86	Take S-25 from 95ft to 97ft Drill to 100ft, smooth drilling, brown wash
				96			22	29		
				97				27		
				98						
				99						
		Brown Silty fine SAND, trace Clay (wet) [SM] (Class 3a)	0.0	100						
				101	S-26	SS	22	27	99	Take S-26 from 100ft to 102ft
				101				39		
				102				31		
		End of Boring at 102ft.		103						
				104						
				105						
				106						
				107						
				108						
				109						
				110						
				111						
				112						
				113						
				114						
				115						
				116						
				117						
				118						
				119						
				120						

\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.

Project 145 Wolcott Street			Project No. 170562204		
Location Brooklyn, New York			Elevation and Datum Approx. el. 8.8 (NAVD88)		
Drilling Company Craig Geotechnical Drilling			Date Started 7/27/2020		Date Finished 7/27/2020
Drilling Equipment CME55			Completion Depth 62.0 ft		Rock Depth Not Encountered
Size and Type of Bit 3-7/8in Tricone Roller Bit			Number of Samples Disturbed 17		Undisturbed 0 Core 0
Casing Diameter (in) 4.0		Casing Depth (ft) 20.0	Water Level (ft.) First $\nabla$ N/A		Completion $\nabla$ N/A 24 HR. $\nabla$ N/A
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30	Drilling Foreman Nick Beehler		
Sampler 2in OD Split Spoon			Field Engineer Andrea Herrera		
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30			



\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.

Project		Project No.									
145 Wolcott Street		170562204									
Location		Elevation and Datum									
Brooklyn, New York		Approx. el. 8.8 (NAVD88)									
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40	
	-11.2	Dark brown medium to fine SAND, some Silt (wet) [SM] (Class 3a)	0.0	20			4			Take S-9 from 20ft to 22ft S-9: #200=21.6%	
				21	S-9	SS	13	8		30	Drill to 25ft, smooth drilling, gray wash
				22				5			
				23							
				24							
			Dark brown fine SAND, some Clay, trace Silt (wet) [SC] (Class 3a)	0.0	25			10			Take S-10 from 25ft to 27ft Drill to 30ft, smooth drilling, gray wash
				26	S-10	SS	18	10		34	
				27				12			
				28							
				29							
			Dark brown coarse to medium SAND, trace Silt (wet) [SP-SM] (Class 3b)	0.0	30			9			Take S-11 from 30ft to 32ft Drill to 35ft, smooth drilling, gray wash
				31	S-11	SS	10	9	7	24	
			32				10				
			33								
			34								
		Dark brown Gravely coarse to fine SAND, some Silt (wet) [SM] (Class 3a)	0.0	35			42			Take S-12 from 35ft to 37ft S-12: #4=52.8% #200=15.4%	
			36	S-12	SS	6	32	40	108	Drill to 40ft, smooth drilling, gray wash	
			37					16			
			38								
			39								
		Dark brown fine SAND, some Silt (wet) [SM] (Class 3a)	0.0	40			18			Take S-13 from 40ft to 42ft Drill to 45ft, smooth drilling, gray wash	
			41	S-13	SS	20	18	13	46		
			42					18			
			43								
			44								
			45								

\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.

Project		145 Wolcott Street		Project No.		170562204				
Location		Brooklyn, New York		Elevation and Datum		Approx. el. 8.8 (NAVD88)				
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40
	-36.2	Brown Silty SAND [SM] (Class 3a)	0.0	45				13		Take S-14 from 45ft to 47ft Drill to 50ft, smooth drilling, gray wash
				46	S-14	SS	14	18	54	
				47				17		
				48						
				49						
				50				20		
				51	S-15	SS	25	24	66	
				52				21		
				53						
				54						
		Brown Silty SAND [SM] (Class 3a)	0.0	55				20		Take S-16 from 55ft to 57ft Drill to 60ft, smooth drilling, gray wash
				56	S-16	SS	18	33	81	
				57				24		
				58						
	-51.2	Brown Sandy SILT [SM] (Class 4a)	0.0	60				23		Take S-17 from 60ft to 62ft S-17: -#200=69.4%
				61	S-17	SS	24	35	93	
				62				24		
	-53.2	End of Boring at 62ft.		62						Bottom of boring at 62ft below ground surface Grout to 25ft below ground surface Install well, refer to Observation Well Construction Log Extract casing
				63						
				64						
				65						
				66						
				67						
				68						
				69						
				70						

\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.

Project 145 Wolcott Street			Project No. 170562204		
Location Brooklyn, New York			Elevation and Datum Approx. el. 12.5 (NAVD88)		
Drilling Company Craig Geotechnical Drilling			Date Started 7/31/2020		Date Finished 7/31/2020
Drilling Equipment CME55			Completion Depth 62.0 ft		Rock Depth Not Encountered
Size and Type of Bit 3-7/8in Tricone Roller Bit			Number of Samples Disturbed 16		Undisturbed 0 Core 0
Casing Diameter (in) 4.0		Casing Depth (ft) 20.0	Water Level (ft.) First $\nabla$ N/A		Completion $\nabla$ N/A 24 HR. $\nabla$ N/A
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30	Drilling Foreman Nick Beehler		
Sampler 2in OD Split Spoon			Field Engineer Andrea Herrera		
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30			

Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft) 10 20 30 40	
	+12.5	12-inch Asphalt Pavement		0						7/31/2020 Drill through 12-inch-thick asphalt
	+11.5	12-inch Concrete Pavement		1						Drill through 12-inch-thick concrete
	+10.5	Dark gray coarse to fine Silty SAND, trace Clay (dry) [FILL] (Class 7)		2						Take S-1 from 2ft to 4ft Push casing to 5ft
		Black coarse to fine Silty SAND, trace Clay (dry) [FILL] (Class 7)		3	S-1	SS	9	5	12	Drill to 4ft, smooth drilling, gray wash
				4						Take S-2 from 4ft to 6ft
				5	S-2	SS	10	4	18	
	+6.5	Brown fine SAND, trace Silt, trace fine Gravel (dry) [SP-SM] (Class 3a)		6						Take S-3 from 6ft to 8ft Petroleum odor
		Brown fine SAND, trace Silt, trace fine Gravel (dry) [SP-SM] (Class 3b)		7	S-3	SS	18	15	38	Drill to 8ft, smooth drilling, gray wash
				8						Take S-4 from 8ft to 10ft Petroleum odor
				9	S-4	SS	13	7	20	
				10						S-5 at 10ft Drill to 12ft, smooth drilling, brown wash
				11	S-5	SS	16	7	22	
		Dark brown medium to fine SAND, some Silt (dry) [SM] (Class 3a)		12						Take S-6 from 12ft to 14ft S-6: #200=22.9%
		Brown fine Silty SAND, trace clay (wet) [SM] (Class 3a)		13	S-6A	SS	24	11	32	Push casing to 15ft Drill to 15ft, smooth drilling, brown wash
				14	S-6B					
				15						Take S-7 from 15ft to 17ft Drive casing to 20ft Drill to 20ft, smooth drilling, brown wash
		Brown fine SAND, some Silt (wet) [SM] (Class 3a)		16	S-7	SS	14	16	44	
				17						
				18						
				19						
				20						

\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.

Project		Project No.										
145 Wolcott Street		170562204										
Location		Elevation and Datum										
Brooklyn, New York		Approx. el. 12.5 (NAVD88)										
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)			
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40		
	-7.5	Brown medium to fine SAND, some Silt (wet) [SM] (Class 3a)	0.1	20				9		Take S-8 from 20ft to 22ft S-8: -#200=6.6%		
				21	S-8	SS	17	17	14	46	Drill to 25ft, smooth drilling, brown wash	
				22					15			
				23								
				24								
			Brown medium to fine SAND, some Silt (wet) [SM] (Class 3a)	0.0	25				11		Take S-9 from 25ft to 27ft S-9: -#200=13.7%	
					26	S-9	SS	18	19	16	52	Drill to 30ft, smooth drilling, brown wash
					27					20		
					28							
					29							
			Brown medium to fine SAND, some Silt (wet) [SM] (Class 3a)	0.0	30				14		Take S-10 from 30ft to 32ft Drill to 35ft, smooth drilling, brown wash	
					31	S-10	SS	17	16	13	44	
				32					17			
				33								
				34								
		Brown medium to fine SAND, some Silt (wet) [SM] (Class 3a)	0.0	35				14		Take S-11 from 35ft to 37ft S-11: -#200=21.1%		
				36	S-11	SS	17	16	13	44	Drill to 40ft, smooth drilling, brown wash	
				37					13			
				38								
				39								
		Brown medium to fine SAND, some Silt (wet) [SM] (Class 3a)	0.0	40				17		Take S-12 from 40ft to 42ft Drill to 45ft, smooth drilling, brown wash		
				41	S-12	SS	24	32	25	86		
				42					23			
				43								
				44								
				45								

\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.

Project		145 Wolcott Street		Project No.		170562204						
Location		Brooklyn, New York		Elevation and Datum				Approx. el. 12.5 (NAVD88)				
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft)			
	-32.5	Brown medium to fine SAND, some Silt (wet) [SM] (Class 3a)	0.1	45				17			Take S-13 from 45ft to 47ft Drill to 50ft, smooth drilling, brown wash	
				46	S-13	SS	22	25	19	66		
				47				20				
			Brown Silty medium to fine SAND (wet) [SM] (Class 3a)	0.1	50				16			Take S-14 from 50ft to 52ft S-14: #200=37.8% Drill to 55ft, smooth drilling, brown wash
					51	S-14	SS	20	20	18	57	
					52				20			
			Brown Silty medium to fine SAND (wet) [SM] (Class 3a)	0.3	55				16			Take S-15 from 55ft to 57ft Drill to 60ft, smooth drilling, brown wash
					56	S-15	SS	21	18	16	51	
					57				17			
			Brown Silty medium to fine SAND (wet) [SM] (Class 3a)	0.1	60				16			Take S-16 from 60ft to 62ft
					61	S-16	SS	23	29	20	74	
					62				24			
		-49.5	End of Boring at 62ft.		62							Bottom of boring at 62ft below ground surface Extract casing Grout to existing grade
					63							
					64							
					65							
				66								
				67								
				68								
				69								
				70								

\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.



Project 145 Wolcott Street			Project No. 170562204		
Location Brooklyn, New York			Elevation and Datum Approx. el. 13.3 (NAVD88)		
Drilling Company Craig Geotechnical Drilling			Date Started 7/30/2020		Date Finished 7/31/2020
Drilling Equipment CME55			Completion Depth 100.1 ft		Rock Depth Not Encountered
Size and Type of Bit 3-7/8in Tricone Roller Bit			Number of Samples Disturbed 27		Undisturbed 0 Core 0
Casing Diameter (in) 4.0		Casing Depth (ft) 55.0	Water Level (ft.) First $\nabla$ N/A		Completion $\nabla$ N/A 24 HR. $\nabla$ N/A
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30	Drilling Foreman Nick Beehler		
Sampler 2in OD Split Spoon			Field Engineer Andrea Herrera		
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30			

Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft) 10 20 30 40	
	+13.3	12-in Asphalt Pavement		0						7/30/2020 Drill through 12-inch-thick asphalt
	+12.3	12-in Concrete Pavement		1						Drill through 12-inch-thick concrete
	+11.3	Black Silty fine SAND, trace Clay (dry) [FILL] (Class 7)		2						Take S-1 from 2ft to 4ft Drive casing to 5ft Push casing 8ft
		Black Silty fine SAND, trace Clay (dry) [FILL] (Class 7)		3	S-1	SS	14	6	21	Drive casing to 10ft Drill to 4ft, chattery drilling, black wash
		Black Silty fine SAND, trace Clay (dry) [FILL] (Class 7)		4				6		Take S-2 from 4ft to 6ft
		Dark gray Clayey SILT, trace medium to fine Sand (dry) [FILL] (Class 7)		5	S-2	SS	9	3	10	
		No Recovery		6				4		Take S-3 from 6ft to 8ft Drill to 8ft, smooth drilling, black wash
				7	S-3	SS	15	5	12	
				8				6		Take S-4 from 8ft to 10ft Push casing to 12ft Drive casing to 15ft
				9	S-4	SS	0	20	51	Drill to 10ft, smooth drilling, grey wash
	+3.3	Dark brown Silty fine SAND (wet) [SM] (Class 3a)		10				17		Take S-5 from 10ft to 12ft Drill to 12ft, smooth drilling, gray wash
		Dark brown Silty fine SAND, trace Clay (wet) [SM] (Class 3a)		11	S-5	SS	8	11	34	
		Dark brown Silty fine SAND, trace Clay (wet) [SM] (Class 3a)		12				10		Take S-6 from 12ft to 14ft Drill to 14ft, smooth drilling, gray wash
		Dark brown Silty fine SAND, trace Clay (wet) [SM] (Class 3a)		13	S-6	SS	16	14	40	
		Dark brown Silty fine SAND, trace Clay (wet) [SM] (Class 3a)		14				13		Take S-7 from 14ft to 16ft
		Dark brown Silty fine SAND, trace Clay (wet) [SM] (Class 3a)		15	S-7	SS	13	14	38	
		Dark brown Silty fine SAND, trace Clay (wet) [SM] (Class 3a)		16				14		Take S-8 from 16ft to 18ft Push casing to 20ft Drill to 18ft, smooth drilling, gray wash
		Dark brown Silty fine SAND, trace Clay (wet) [SM] (Class 3a)		17	S-8	SS	24	15	48	
		Dark brown Silty fine SAND (wet) [SM] (Class 3a)		18				19		Take S-9 from 18ft to 20ft Push casing to 25ft Drill to 20ft, smooth drilling,
				19	S-9	SS	20	12	32	
				20				12		

\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.

Project		Project No.									
145 Wolcott Street		170562204									
Location		Elevation and Datum									
Brooklyn, New York		Approx. el. 13.3 (NAVD88)									
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft)	
	-6.7	No Recovery	34.7	20				16		Take S-10 from 20ft to 22ft	
				21	S-10	SS	0	18	18	54	
		Dark brown Silty fine SAND (wet) [SM] (Class 3a)		22				14	16		Take S-11 from 22ft to 24ft
				23	S-12	SS	3	36	24	90	Encountered no recovery Switch to 3in-diameter spoon Take S-12 from 22ft to 24ft
				24					30		
		Dark brown Silty fine SAND (wet) [SM] (Class 3a)		0.2	25				12		Take S-13 from 25ft to 27ft
				26	S-13	SS	17	18	16	51	Change drilling fluid Drill to 30ft, smooth drilling, dark brown wash
				27					17		
		Dark brown fine SAND, some Silt (wet) [SM] (Class 3a)		1.1	30				20		Take S-14 from 30ft to 32ft
				31	S-14	SS	18	31	31	93	Drill to 35ft, smooth drilling, no dark brown wash
				32					51		
		Dark brown medium to fine SAND, some Silt (wet) [SM] (Class 3a)		0.2	35				11		Take S-15 from 35ft to 37ft
				36	S-15	SS	21	16	15	46	S-15: #200=19.2% Drill to 40ft, smooth drilling brown wash
				37					14		
		Dark brown Silty fine SAND (wet) [SM] (Class 3a)		0.2	40				8		Take S-16 from 40ft to 42ft
				41	S-16	SS	19	13	12	38	Drill to 45ft, smooth drilling, brown wash
			42					15			
			43								
			44								
			45								

\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.

Project		Project No.										
145 Wolcott Street		170562204										
Location		Elevation and Datum										
Brooklyn, New York		Approx. el. 13.3 (NAVD88)										
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)			
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40		
	-31.7	Dark brown fine SAND, some Silt (wet) [SM] (Class 3a)	0.2	45			15			Take S-17 from 45ft to 47ft Drill to 50ft, smooth drilling, brown wash		
				46	S-17	SS	20	20	18		57	
					47				23			
			Brown fine SAND, some Silt (wet) [SM] (Class 3a)	0.2	50			18			Take S-18 from 50ft to 52ft Drill to 55ft, smooth drilling, brown wash	
					51	S-18	SS	20	25	23		72
					52				25			
			Brown fine SAND, some Silt (wet) [SM] (Class 3a)	0.2	55			20			Take S-19 from 55ft to 57ft Drill to 60ft, smooth drilling, brown wash	
					56	S-19	SS	21	28	25		80
					57				28			
			Brown fine SAND, some Silt (wet) [SM] (Class 3a)	0.0	60			18			Take S-20 from 60ft to 62ft Drill to 65ft, smooth drilling, brown wash	
					61	S-20	SS	16	35	26		92
					62				30			
			Brown fine SAND, some Silt (wet) [SM] (Class 3a)	0.2	65			22			Take S-21 from 65ft to 67ft Drill to 70ft, smooth drilling, brown wash	
					66	S-21	SS	19	32	28		90
					67				30			
					68							
					69							
					70							

\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.

Project		Project No.										
145 Wolcott Street		170562204										
Location		Elevation and Datum										
Brooklyn, New York		Approx. el. 13.3 (NAVD88)										
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)			
					Number	Type	Recov. (in)	Penetr. resist. BL/6in		N60-Value* (Blows/ft) 10 20 30 40		
	-56.7	Brown fine SAND, some Silt (wet) [SM] (Class 3a)	0.2	70				22			Take S-22 from 70ft to 72ft Drill to 75ft, smooth drilling, brown wash	
				71	S-22	SS	21	28		84		
				72				32				
			Brown fine SAND, some Silt (wet) [SM] (Class 3a)	0.2	75				27			Take S-23 from 75ft to 77ft Drill to 80ft, smooth drilling, brown wash
					76	S-23	SS	18	42		112	
					77				41			
			Brown fine SAND, some Silt (wet) [SM] (Class 3a)	0.0	80				18			Take S-24 from 80ft to 82ft Drill to 85ft, smooth drilling, brown wash
					81	S-24	SS	20	48		126	
					82				51			
			Brown Silty fine SAND (wet) [SM] (Class 3a)	0.0	85				19			Take S-25 from 85ft to 87ft Push casing to 40ft Drive casing to 55ft 7/31/2020 Drill to 90ft, smooth drilling, brown wash
					86	S-25	SS	24	30		86	
					87				26			
			Brown Silty fine SAND (wet) [SM] (Class 3a)	0.0	90				19			Take S-26 from 90ft to 92ft Drill to 95ft, smooth drilling, brown wash
					91	S-26	SS	24	23		62	
					92				16			
					93							
					94							
					95							

\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.

Project		145 Wolcott Street		Project No.		170562204				
Location		Brooklyn, New York		Elevation and Datum		Approx. el. 13.3 (NAVD88)				
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40
	-81.7	Brown Silty fine SAND (wet) [SM] (Class 3a)	0.0	95				85		Take S-27 from 95ft to 97ft Drill to 100ft, smooth drilling, brown wash
				96	S-27	SS	20	36		
				97					31	Take S-28 from 100ft to 102ft
				98						
				99						
	-87.0	No Recovery	0.1	100	S-28	SS		50/1*		75/1*
		End of Boring at 100.1ft.		101						Bottom of boring at 100.1ft Grout to 25ft below ground surface Install well, refer to Observation Well Construction Log Extract casing
				102						
				103						
				104						
				105						
				106						
				107						
				108						
				109						
				110						
				111						
				112						
				113						
				114						
				115						
				116						
				117						
				118						
				119						
				120						

\*N60 values obtained using an estimated Hammer Energy Ratio of 90% corresponding to a correction factor of 1.50.

Project 145 Wolcott Street			Project No. 170562204		
Location Brooklyn, New York			Elevation and Datum Approx. el. 10.5 (NAVD88)		
Drilling Company Craig Geotechnical Drilling			Date Started 2/16/2024		Date Finished 2/16/2024
Drilling Equipment CME75			Completion Depth 100.0 ft		Rock Depth Not Encountered
Size and Type of Bit 3-7/8in Tricone Roller Bit			Number of Samples Disturbed 24		Undisturbed 0 Core 0
Casing Diameter (in) 4.0		Casing Depth (ft) 15.0	Water Level (ft.) First $\nabla$ N/A		Completion $\nabla$ N/A 24 HR. $\nabla$ N/A
Casing Hammer Automatic		Weight (lbs) 140	Drop (in) 30	Drilling Foreman Mike Gorski	
Sampler 2in OD Split Spoon			Field Engineer Brendon Creed		
Sampler Hammer Automatic		Weight (lbs) 140	Drop (in) 30		

Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft) 10 20 30 40		
	+10.5	Asphalt Pavement		0						02/16/2024 Drill through 1ft of asphalt and subbase. Take S-1 from 1ft to 3ft.	
	+9.5	Dark gray sandy coarse to fine GRAVEL, trace Silt, asphalt fragments (moist) [FILL] [Class 7]		1	S-1	SS	5	6	20		
		Dark gray sandy coarse to fine GRAVEL, trace Silt (moist) [FILL] [Class 7]		2			6				
		Dark gray sandy coarse to fine GRAVEL, trace Silt (moist) [FILL] [Class 7]		3			5	6			Take S-2 from 3ft to 5ft.
		Light brown coarse to fine SAND, some coarse Gravel, trace Silt, brick fragments (moist) [FILL] [Class 7]		4	S-2	SS	4	4	13		Drive casing to 5ft. Drill to 5ft. Smooth drilling, gray wash. Take S-3 from 5ft to 7ft.
		Grayish brown medium to fine SAND, trace fine Gravel, trace Silt (moist) [FILL] [Class 7]		5			5	4			
		Dark brown medium to fine SAND, trace Silt (wet) [SP-SM] [Class 6]		6	S-3	SS	8	9	25		
		Dark brown coarse to fine SAND, some Silt, some fine Gravel (wet) [SM] [Class 3b]		7			16	21			Take S-4 from 7ft to 9ft.
		Dark brown coarse to fine SAND, some Silt, some fine Gravel (wet) [SM] [Class 3b]		8	S-4	SS	13	6	25		Drive casing to 9ft. Moderate rig chatter, brown wash with dark gray gravel and cobbles. Take S-5 from 9ft to 11ft.
	+1.5	Dark brown medium to fine SAND, trace Silt (wet) [SP-SM] [Class 6]		9			3	8			
		Dark brown coarse to fine SAND, some Silt, some fine Gravel (wet) [SM] [Class 3b]		10	S-5	SS	20	1	5		Take S-6 from 11ft to 13ft. -#4 = 81.0% -#200 = 31.1%
		Dark brown coarse to fine SAND, some Silt, some fine Gravel (wet) [SM] [Class 3b]		11			6	1			
		Dark brown coarse to fine SAND, some Silt, some fine Gravel (wet) [SM] [Class 3b]		12	S-6	SS	7	7	22		Drive casing to 15ft. Drill to 15ft. Smooth drilling, brown wash.
		Dark brown coarse to fine SAND, trace Silt, trace fine Gravel (wet) [SP-SM] [Class 3a]		13			7	6			
		Dark brown coarse to fine SAND, trace Silt, trace fine Gravel (wet) [SP-SM] [Class 3a]		14			7	6			
		Dark brown coarse to fine SAND, trace Silt, trace fine Gravel (wet) [SP-SM] [Class 3a]		15			12	18			Take S-7 from 15ft to 17ft.
		Dark brown coarse to fine SAND, trace Silt, trace fine Gravel (wet) [SP-SM] [Class 3a]		16	S-7	SS	15	21	65		Drive casing to 15ft. Drill to 15ft. Smooth drilling, brown wash.
		Dark brown coarse to fine SAND, trace Silt, trace fine Gravel (wet) [SP-SM] [Class 3a]		17			15	19			Drill to 20ft. Smooth drilling, brown wash.
		Dark brown coarse to fine SAND, trace Silt, trace fine Gravel (wet) [SP-SM] [Class 3a]		18			15	19			
		Dark brown coarse to fine SAND, trace Silt, trace fine Gravel (wet) [SP-SM] [Class 3a]		19			15	19			
		Dark gray to brown fine SAND, trace Silt (wet) [SP-SM] [Class 3b]		20			5	7			Take S-8 from 20ft to 22ft.
		Dark gray to brown fine SAND, trace Silt (wet) [SP-SM] [Class 3b]		21	S-8	SS	14	10	28		Drill to 25ft. Smooth drilling, brown wash.
		Dark gray to brown fine SAND, trace Silt (wet) [SP-SM] [Class 3b]		22			14	11			
		Dark gray to brown fine SAND, trace Silt (wet) [SP-SM] [Class 3b]		23			14	11			
		Dark gray to brown fine SAND, trace Silt (wet) [SP-SM] [Class 3b]		24			14	11			

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project		Project No.									
145 Wolcott Street		170562204									
Location		Elevation and Datum									
Brooklyn, New York		Approx. el. 10.5 (NAVD88)									
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40	
	-13.5										
		Dark brown medium to fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.1	24							
				25							
				26	S-9	SS	21	10	11	43	Take S-9 from 25ft to 27ft.
				27					18		Drill to 30ft. Smooth drilling, brown wash.
				28							
				29							
				30							
		Dark brown medium to fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.0	30							
				31	S-10	SS	16	10	13	45	Take S-10 from 30ft to 32ft.
				32					14		Drill to 35ft. Smooth drilling, brown wash.
				33							
				34							
		Dark brown medium to fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.0	35							
			36	S-11	SS	18	11	15	52	Take S-11 from 35ft to 37ft.	
			37					16		Drill to 40ft. Smooth drilling, brown wash.	
			38					18			
			39								
	Reddish brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.1	40								
			41	S-12	SS	20	10	12	45	Take S-12 from 40ft to 42ft.	
			42					15		Drill to 45ft. Smooth drilling, brown wash.	
			43					18			
			44								
	Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.1	45								
			46	S-13	SS	19	8	10	37	Take S-13 from 45ft to 47ft.	
			47					12		Drill to 50ft. Smooth drilling, brown wash.	
			48					13			
			49								
	Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.0	50								
			51	S-14	SS	19	14	19	67	Take S-14 from 50ft to 52ft.	
			52					21		Drill to 55ft. Smooth drilling, brown wash.	
			53					22			
			54								

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project		Project No.									
145 Wolcott Street		170562204									
Location		Elevation and Datum									
Brooklyn, New York		Approx. el. 10.5 (NAVD88)									
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40	
	-43.5			54							
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.0	55							Take S-15 from 55ft to 57ft.
				56	S-15	SS	21	20		73	
				57				24			Drill to 60ft. Smooth drilling, brown wash.
				58				25			
				59							
				60							Take S-16 from 60ft to 62ft.
		Reddish brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.0	61	S-16	SS	21	27		95	
				62				30			Drill to 65ft. Smooth drilling, brown wash.
				63				36			
				64							
				65							Take S-17 from 65ft to 67ft.
		Reddish brown fine SAND, some Silt (wet) [SM] [Class 3a]	0.3	66	S-17	SS	22	30		102	
				67				31			Drill to 70ft. Smooth drilling, brown wash.
				68							
				69							
				70							Take S-18 from 70ft to 72ft. #4 = 87.5% #200 = 25.0%
		Brown coarse to fine SAND, some Silt, some fine Gravel (wet) [SM] [Class 3a]	0.2	71	S-18	SS	16	50		142	
				72				35			Drill to 75ft. Mild rig chatter, brown wash.
				73				43			
			74								
			75							Take S-19 from 75ft to 77ft. Refusal encountered at 76.5ft.	
	Brown coarse to fine SAND, trace fine Gravel, trace Silt, trace Clay (wet) [SP-SM] [Class 3a]	0.0	76	S-19	SS	12	30		217		
			77				100/6"			Drill to 80ft. Intense rig chatter, brown wash.	
			78								
			79								
			80							Take S-20 from 80ft to 82ft.	
	Reddish brown medium to fine SAND, trace Silt, trace fine Gravel (wet) [SP-SM] [Class 3a]	0.0	81	S-20	SS	13	22		80		
			82				26			Drill to 85ft. Smooth drilling, brown wash.	
			83				27				
			84								

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.



Project		145 Wolcott Street		Project No.		170562204						
Location		Brooklyn, New York		Elevation and Datum		Approx. el. 10.5 (NAVD88)						
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)			
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40		
	-73.5	Reddish brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.0	84								
				85								
				86	S-21	SS	15	14	19	65	Take S-21 from 85ft to 87ft.	
				87					21		Drill to 90ft. Smooth drilling, brown wash.	
				88								
				89								
			Brown medium to fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.0	90							
					91	S-22	SS	14	17	19	67	Take S-22 from 90ft to 92ft.
					92				21		Drill to 95ft. Smooth drilling, brown wash.	
					93							
				94								
		Brown medium to fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.0	95								
				96	S-23	SS	15	20	25	87	Take S-23 from 95ft to 97ft.	
				97				27	30		Drill to 98ft. Smooth drilling, brown wash.	
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.0	98								
				99	S-24	SS	15	25	28	100	Take S-24 from 98ft to 100ft.	
				100					32		Bottom of boring at 100ft. Pull up casing, backfill with cuttings and bentonite plug, apply asphalt cold patch.	
		End of Boring at 100ft.		101								
				102								
				103								
				104								
				105								
				106								
				107								
				108								
				109								
				110								
				111								
				112								
				113								
				114								

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project 145 Wolcott Street			Project No. 170562204		
Location Brooklyn, New York			Elevation and Datum Approx. el. 11.7 (NAVD88)		
Drilling Company Craig Geotechnical Drilling			Date Started 2/14/2024		Date Finished 2/14/2024
Drilling Equipment CME75			Completion Depth 52.0 ft		Rock Depth Not Encountered
Size and Type of Bit 3-7/8in Tricone Roller Bit			Number of Samples Disturbed 14		Undisturbed 0 Core 0
Casing Diameter (in) 4.0		Casing Depth (ft) 15.0	Water Level (ft.) First $\nabla$ 10.3		Completion $\nabla$ 10.8 24 HR. $\nabla$ 10.7
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30	Drilling Foreman Mike Gorski		
Sampler 2in OD Split Spoon			Field Engineer David Mcveety		
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30			

Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recor. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft) 10 20 30 40		
	+11.7	Asphalt Pavement		0						2/14/2024 Drill through 1ft of asphalt and subbase. Take S-1 from 1ft to 3ft.	
	+10.7	Dark brown to black coarse to fine SAND, some fine Gravel, trace Clay, trace Silt (moist) [FILL] [Class 7]		1	S-1	SS	15	3	12	25	Take S-2 from 3ft to 5ft.
		Dark brown coarse to fine SAND, some fine Gravel, trace Clay, trace Silt (moist) [FILL] [Class 7]		3			6		6		Drive casing to 4ft. Drill to 5ft. Smooth drilling, black wash. Take S-3 from 5ft to 7ft.
		Dark brown coarse to fine SAND, some fine Gravel, trace Clay, trace Silt (moist) [FILL] [Class 7]		5	S-2	SS	5	4	5	17	Take S-4 from 7ft to 9ft.
		Light brown coarse to fine SAND, trace coarse to fine Gravel, trace Silt, brick fragments (moist) [FILL] [Class 7]		7	S-3	SS	10	2	8	17	Drive casing to 9ft. Drill to 9ft. Smooth drilling, brown wash. Take S-5 from 9ft to 11ft.
	+2.7	Dark gray coarse to fine SAND, trace Silt, trace fine Gravel (moist to wet) [SP-SM] [Class 3b]		9	S-4	SS	16	99	49	247	Take S-6 from 11ft to 13ft.
		Brown coarse to fine SAND, trace Silt (wet) [SP-SM] [Class 3a]		11	S-5	SS	14	8	9	28	Drive casing to 15ft. Drill to 15ft. Smooth drilling, brown wash.
		Brown coarse to fine SAND, trace Silt (wet) [SP-SM] [Class 3a]		12	S-6	SS	16	13	13	43	Take S-7 from 15ft to 17ft.
		Brown coarse to fine SAND, trace Silt (wet) [SP-SM] [Class 3a]		15			8		11		Drill to 20ft. Smooth drilling, brown wash.
		Brown coarse to fine SAND, trace Silt (wet) [SP-SM] [Class 3a]		16	S-7	SS	16	10	11	35	Take S-8 from 20ft to 22ft.
		Brown coarse to fine SAND, trace Silt (wet) [SP-SM] [Class 3a]		20	S-8	SS	14	20	16	60	Drill to 25ft. Smooth drilling, brown wash.
				21					22		
				22							
				23							
				24							

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project		Project No.										
145 Wolcott Street		170562204										
Location		Elevation and Datum										
Brooklyn, New York		Approx. el. 11.7 (NAVD88)										
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)			
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40		
	-12.3	Brown medium to fine SAND, some Silt (wet) [SM] [Class 3a]		24						Take S-9 from 25ft to 27ft.		
	25											
	26			S-9	SS	16	17	14	52			
			Brown medium to fine SAND, some Silt, Silt lenses (wet) [SM] [Class 3a]		27						Drill to 30ft. Smooth drilling, brown wash.	
	28											
	29											
			Brown medium to fine SAND, some Silt, Silt lenses (wet) [SM] [Class 3a]		30						Take S-10 from 30ft to 32ft. #4 = 99.9% #200 = 33.4%	
	31	S-10			SS	20	16	11	45			
	32							18				
			Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]		33						Drill to 35ft. Smooth drilling, brown wash.	
	34											
	35											
			Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]		36	S-11	SS	18	13	11	40	Take S-11 from 35ft to 37ft.
	37							14				
38												
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]		39						Drill to 40ft. Smooth drilling, brown wash.		
40												
41	S-12			SS	18	11	10	35				
		Brown fine SAND, some Silt (wet) [SM] [Class 3a]		42						Take S-12 from 40ft to 42ft.		
43												
44												
		Brown fine SAND, some Silt (wet) [SM] [Class 3a]		45						Drill to 45ft. Smooth drilling, brown wash.		
46	S-13			SS	16	14	11	42				
47							15					
		Brown silty fine SAND (wet) [SM] [Class 3a]		48						Take S-13 from 45ft to 47ft.		
49												
50												
		Brown silty fine SAND (wet) [SM] [Class 3a]		51	S-14	SS	20	24	20	73	Take S-14 from 50ft to 52ft. #4 = 100%, #200 = 42.8% Bottom of boring at 52ft. Pull up casing, backfill with soil cuttings and bentonite to 20.5ft below grade. Install groundwater observation well. Refer to Appendix A for Groundwater Observation Well Construction Log.	
52												
53												
	-40.3	End of Boring at 52ft.		54								

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project 145 Wolcott Street			Project No. 170562204		
Location Brooklyn, New York			Elevation and Datum Approx. el. 13.0 (NAVD88)		
Drilling Company Craig Geotechnical Drilling			Date Started 2/9/2024		Date Finished 2/9/2024
Drilling Equipment CME75			Completion Depth 100.0 ft		Rock Depth Not Encountered
Size and Type of Bit 3-7/8in Tricone Roller Bit			Number of Samples Disturbed 23		Undisturbed 0 Core 0
Casing Diameter (in) 4.0		Casing Depth (ft) 15.0	Water Level (ft.) First $\nabla$ N/A		Completion $\nabla$ N/A 24 HR. $\nabla$ N/A
Casing Hammer Automatic		Weight (lbs) 140	Drop (in) 30	Drilling Foreman Mike Gorski	
Sampler 2in OD Split Spoon			Field Engineer David Mcveety		
Sampler Hammer Automatic		Weight (lbs) 140	Drop (in) 30		

Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recor. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft) 10 20 30 40	
	+13.0	Asphalt		0						02/09/2024 Drill through 1ft of asphalt and subbase. Take G-1 from 1ft to 3ft.
	+12.0	Brown to black silty coarse to fine SAND, some fine Gravel (moist) [FILL] [Class 7]		1						
		Brown to black coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		2						
		Brown to black coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		3						Take S-1 from 3ft to 5ft.
		Brown to black coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		4	S-1	SS	16	5	3	13
		Brown to black coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		5					6	
		Brown to black coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		6	S-2	SS	20	7	9	27
		Brown to black coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		7	S-3A	SS	6		7	
		Dark brown coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		8	S-3B	SS	16	10	7	28
	+5.5	Light brown medium to fine SAND, some Silt (moist) [SM] [Class 3b]		9					10	
		Light brown medium to fine SAND, some Silt (moist) [SM] [Class 3a]		10	S-4	SS	17	10	10	33
		Light brown to dark brown medium to fine SAND, some Silt (wet) [SM] [Class 3a]		11					11	
		Light brown to dark brown medium to fine SAND, some Silt (wet) [SM] [Class 3a]		12	S-5	SS	13	14	9	38
		Light brown to dark brown medium to fine SAND, some Silt (wet) [SM] [Class 3a]		13					12	
		Dark brown to dark gray medium to fine SAND, some Silt (wet) [SM] [Class 3a]		14						
		Dark brown to dark gray medium to fine SAND, some Silt (wet) [SM] [Class 3a]		15					9	
		Dark brown to dark gray medium to fine SAND, some Silt (wet) [SM] [Class 3a]		16	S-6	SS	16	9	9	30
		Dark brown to dark gray medium to fine SAND, some Silt (wet) [SM] [Class 3a]		17					12	
		Dark brown to dark gray medium to fine SAND, some Silt (wet) [SM] [Class 3a]		18						
		Dark brown to dark gray medium to fine SAND, some Silt (wet) [SM] [Class 3a]		19						
		Dark gray to light brown medium to fine SAND, some Silt (wet) [SM] [Class 3b]		20					5	
		Dark gray to light brown medium to fine SAND, some Silt (wet) [SM] [Class 3b]		21	S-7	SS	18	7	6	22
		Dark gray to light brown medium to fine SAND, some Silt (wet) [SM] [Class 3b]		22					8	
		Dark gray to light brown medium to fine SAND, some Silt (wet) [SM] [Class 3b]		23						
		Dark gray to light brown medium to fine SAND, some Silt (wet) [SM] [Class 3b]		24						

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project		Project No.										
145 Wolcott Street		170562204										
Location		Elevation and Datum										
Brooklyn, New York		Approx. el. 13.0 (NAVD88)										
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)			
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40		
	-11.0											
			Gray to brown fine SAND, some Silt (wet) [SM] [Class 3b]		24							
				0.2	25							
					26	S-8	SS	12	5		17	Take S-8 from 25ft to 27ft. Possible staining in most of sample.
					27				7			Drill to 30ft. Smooth drilling, gray wash.
					28							
					29							
			Dark brown to brown fine SAND, some Silt (wet) [SM] [Class 3a]	0.0	30							Take S-9 from 30ft to 32ft.
					31	S-9	SS	14	13		38	Drill to 35ft. Smooth drilling, gray wash.
					32				14			
					33							
					34							
			Brown fine SAND, some Silt (wet) [SM] [Class 3a]	0.0	35							Take S-10 from 35ft to 37ft.
				36	S-10	SS	19	21		68	Drill to 40ft. Smooth drilling, brown wash.	
				37				29				
				38								
				39								
		Brown fine SAND, some Silt (wet) [SM] [Class 3a]	0.0	40							Take S-11 from 40ft to 42ft.	
				41	S-11	SS	15	19		55	Drill to 45ft. Smooth drilling, brown wash.	
				42				13				
				43								
				44								
		Brown fine SAND, some Silt (wet) [SM] [Class 3a]	0.0	45							Take S-12 from 45ft to 47ft.	
				46	S-12	SS	16	15		45	Drill to 50ft. Smooth drilling, brown wash.	
				47				16				
				48								
				49								
		Brown fine SAND, some Silt (wet) [SM] [Class 3a]	0.0	50							Take S-13 from 50ft to 52ft.	
				51	S-13	SS	18	20		55	Drill to 55ft. Smooth drilling, brown wash.	
				52				24				
				53								
				54								

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project		145 Wolcott Street		Project No.		170562204								
Location		Brooklyn, New York		Elevation and Datum				Approx. el. 13.0 (NAVD88)						
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)				
					Number	Type	Recov. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft) 10 20 30 40					
	-41.0	Brown fine SAND, some Silt (wet) [SM] [Class 3a]												
	54													
	55													
	56				S-14	SS	18	20	18	63			Take S-14 from 55ft to 57ft.	
	57								23				Drill to 60ft. Smooth drilling, brown wash.	
	58													
	59													
	60												Take S-15 from 60ft to 62ft.	
	61				S-15	SS	24	24	22	77				
	62								27				Drill to 65ft. Smooth drilling, brown wash.	
	63													
	64													
65									Take S-16 from 65ft to 67ft. -#4 = 100% -#200 = 30.0%					
66	S-16	SS	16	26	25	85								
67					24				Drill to 70ft. Smooth drilling, brown wash.					
68														
69														
70									Take S-17 from 70ft to 72ft.					
71	S-17	SS	19	29	22	85								
72					31				Drill to 75ft. Smooth drilling, brown wash.					
73														
74														
75	S-18	SS	9	16	50/3"	84/3"			Take S-18 from 75ft to 75.8ft. -#4 = 99.1% -#200 = 78.4% Refusal encountered at 75.8ft. Obstruction encountered at 75.8ft. Drilling through obstruction, boulder likely. Drill to 80ft. Moderate rig chatter, brown wash.					
76														
77														
78														
79														
80									Take S-19 from 80ft to 82ft.					
81	S-19	SS	13	16	13	48								
82					16				Drill to 85ft. Smooth drilling, brown wash.					
83														
84														

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project		145 Wolcott Street		Project No.		170562204					
Location		Brooklyn, New York		Elevation and Datum		Approx. el. 13.0 (NAVD88)					
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40	
	-71.0			84							
		Reddish brown medium to fine SAND, some Silt (wet) [SM] [Class 3a]		85							
				86	S-20	SS	13	18		60	Take S-20 from 85ft to 87ft.
				87				20			Drill to 90ft. Smooth drilling, brown wash.
				88							
		Brown medium to fine SAND, some Silt (wet) [SM] [Class 3a]		89							
				90							Take S-21 from 90ft to 92ft.
				91	S-21	SS	18	21		68	Drill to 95ft. Smooth drilling, brown wash.
				92				23			
		Brown medium to fine SAND, some Silt (wet) [SM] [Class 3a]		93							
				94							
				95							Take S-22 from 95ft to 97ft.
				96	S-22	SS	16	15		60	Drill to 98ft. Smooth drilling, brown wash.
		Brown medium to fine SAND, some Silt (wet) [SM] [Class 3a]		97							
				98							Take S-23 from 98ft to 100ft.
				99	S-23	SS	16	23		73	
				100				30			Bottom of boring at 100ft. Pull up casing, backfill with soil cuttings and bentonite plug, apply asphalt cold patch.
	-87.0	End of Boring at 100ft.		101							
				102							
				103							
				104							
				105							
				106							
				107							
				108							
				109							
				110							
				111							
				112							
				113							
				114							

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project 145 Wolcott Street			Project No. 170562204		
Location Brooklyn, New York			Elevation and Datum Approx. el. 11.2 (NAVD88)		
Drilling Company Craig Geotechnical Drilling			Date Started 2/12/2024		Date Finished 2/12/2024
Drilling Equipment CME75			Completion Depth 52.0 ft		Rock Depth Not Encountered
Size and Type of Bit 3-7/8in Tricone Roller Bit			Number of Samples Disturbed 16		Undisturbed 0 Core 0
Casing Diameter (in) 4.0		Casing Depth (ft) 25.0	Water Level (ft.) First $\nabla$ N/A		Completion $\nabla$ N/A 24 HR. $\nabla$ N/A
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30	Drilling Foreman Mike Gorski		
Sampler 2in OD Split Spoon			Field Engineer David Mcveety		
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30			

Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft) 10 20 30 40		
	+11.2	Asphalt Pavement		0						2/12/2024 Drill through 1ft of asphalt and subbase. Take S-1 from 1ft to 3ft.	
	+10.2	Black coarse to fine SAND, some fine Gravel, trace Clay, trace Silt (moist) [FILL] [Class 7]		3.9	1	S-1	SS	20	10	14	40
		Brown to black coarse to fine SAND, some fine Gravel, trace Clay, trace Silt (moist) [FILL] [Class 7]		0.9	3				14	8	
		Brown to black coarse to fine SAND, some fine Gravel, some Silt, trace Clay (moist) [FILL] [Class 7]		9.0	4	S-2	SS	19	30	10	67
		Brown to black coarse to fine SAND, some fine Gravel, some Silt, trace Clay (moist) [FILL] [Class 7]		9.0	5				11	13	
		Brown to black coarse to fine SAND, some fine Gravel, trace Clay, trace Silt, wood fragments (moist) [FILL] [Class 7]		1.0	7	S-4A	SS	5		6	33
	+3.9	Black to dark gray fine SAND, trace Clay, trace Silt (wet) [SP-SC] [Class 3b]		1.0	8	S-4B	SS	14	5	4	15
		Black to dark gray fine SAND, trace Clay, trace Silt (wet) [SP-SC] [Class 6]		15.7	9				3	3	
		Black to dark gray medium to fine SAND, trace Clay, trace Silt (wet) [SP-SC] [Class 3b]		21.4	10	S-5	SS	14	1	2	5
		No Recovery			11				2	1	
		Dark gray coarse to fine SAND, some Clay, some fine Gravel (wet) [SC] [Class 3b]		0.6	12	S-6	SS	17	6	2	13
		Dark gray coarse to fine SAND, some Clay, some fine Gravel (wet) [SC] [Class 3a]			13				8	14	
		Dark gray coarse to fine SAND, some Clay, some fine Gravel (wet) [SC] [Class 3a]			14	S-7	SS	0	7	12	32
		Dark gray coarse to fine SAND, some Clay, some fine Gravel (wet) [SC] [Class 3a]		0.6	15				5	9	
		Dark gray coarse to fine SAND, some Clay, some fine Gravel (wet) [SC] [Class 3a]			16	S-8	SS	2	9	4	22
		Dark gray coarse to fine SAND, some Clay, some fine Gravel (wet) [SC] [Class 3a]			17					23	
		Dark gray coarse to fine SAND, some Clay, some fine Gravel (wet) [SC] [Class 3a]		0.0	18				63	20	
		Dark gray coarse to fine SAND, some Clay, some fine Gravel (wet) [SC] [Class 3a]			19	S-9	SS	1	19	19	65
		Dark gray coarse to fine SAND, some Clay, some fine Gravel (wet) [SC] [Class 3a]		0.3	20				20	22	
		Dark gray coarse to fine SAND, some Clay, some fine Gravel (wet) [SC] [Class 3a]			21	S-10	SS	24	17	16	55
					22					20	
					23						
					24						

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.



Project		Project No.										
145 Wolcott Street		170562204										
Location		Elevation and Datum										
Brooklyn, New York		Approx. el. 11.2 (NAVD88)										
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)			
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40		
	-12.8											
		Dark gray coarse to fine SAND, some Clay, some fine Gravel (wet) [SC] [Class 3a]		24								
				25								
				26	S-11	SS	16	15	20	58	Take S-11 from 25ft to 27ft.	
				27					12		Drill to 30ft. Smooth drilling, brown wash.	
				28								
				29								
				30							Take S-12 from 30ft to 32ft.	
				31	S-12	SS	5	12	15	45		
				32					7		Drill to 35ft. Smooth drilling, brown wash.	
				33								
		Dark gray coarse to fine GRAVEL (wet) [GP] [Class 2a]		34								
				35								
				36	S-13	SS	15	12	10	37	Take S-13 from 35ft to 37ft.	
				37					15		Drill to 40ft. Smooth drilling, brown wash.	
				38								
				39								
				40							Take S-14 from 40ft to 42ft.	
				41	S-14	SS	15	15	13	47		
				42					18		Drill to 45ft. Smooth drilling, brown wash.	
				43								
		Brown fine SAND, some Silt (wet) [SM] [Class 3a]		44								
				45								
				46	S-15	SS	18	22	17	65	Take S-15 from 45ft to 47ft.	
				47					19		Drill to 50ft. Smooth drilling, brown wash.	
				48								
				49								
				50							Take S-16 from 50ft to 52ft. -#4 = 100% -#200 = 33.2%	
				51	S-16	SS	16	22	13	58		
				52					25		Bottom of boring at 52ft. Pull up casing, backfill with soil cuttings and bentonite plug, apply asphalt cold patch.	
				53								
	-40.8	End of Boring at 52ft.										

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project 145 Wolcott Street			Project No. 170562204		
Location Brooklyn, New York			Elevation and Datum Approx. el. 13.2 (NAVD88)		
Drilling Company Craig Geotechnical Drilling			Date Started 2/15/2024		Date Finished 2/15/2024
Drilling Equipment CME75			Completion Depth 100.0 ft		Rock Depth Not Encountered
Size and Type of Bit 3-7/8in Tricone Roller Bit			Number of Samples Disturbed 25		Undisturbed 0 Core 0
Casing Diameter (in) 4.0		Casing Depth (ft) 15.0	Water Level (ft.) First $\nabla$ N/A		Completion $\nabla$ N/A 24 HR. $\nabla$ N/A
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30	Drilling Foreman Mike Gorski		
Sampler 2in OD Split Spoon			Field Engineer Brendon Creed		
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30			

Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recor. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft) 10 20 30 40		
	+13.2	Asphalt Pavement		0						2/15/2024 Drill through 1ft of asphalt and subbase. Take S-1 from 1ft to 3ft.	
	+12.2	Dark gray coarse to fine SAND, some fine Gravel, trace Silt (moist) [FILL] [Class 7]		1	S-1	SS	8	2	4	10	Take S-2 from 3ft to 5ft.
		Brown coarse to fine SAND, some fine Gravel, some Clay, trace Silt (moist) [FILL] [Class 7]		3			3		6		Take S-3 from 5ft to 7ft.
		Dark gray to brown coarse to fine SAND, trace fine Gravel, trace Clay, trace Silt (moist) [FILL] [Class 7]		5	S-3	SS	8	2	4	10	Take S-4 from 7ft to 9ft.
		Dark gray to black coarse to fine SAND, trace fine Gravel, trace Silt, wood fragments (wet) [FILL] [Class 7]		7	S-4	SS	8	2	2	7	Drive casing to 9ft. Drill to 9ft. Slight rig chatter, dark gray wash. Take S-5 from 9ft to 11ft.
	+4.2	Dark gray medium to fine SAND, trace fine Gravel, trace Silt (wet) [SP-SM] [Class 3b]		9	S-5	SS	5	6	6	20	Take S-6 from 11ft to 13ft.
		Dark gray to black medium to fine SAND, trace Silt (wet) [SP-SM] [Class 6]		11			2		5		Take S-7 from 13ft to 15ft.
		Dark gray to brown medium to fine SAND, trace Silt (wet) [SP-SM] [Class 3a]		12	S-6	SS	5	2	2	7	Drive casing to 15ft. Drill to 15ft. Smooth drilling, dark gray wash. Take S-8 from 15ft to 17ft. #4 = 86.8% #200 = 14.5%
		Dark gray to brown medium to fine SAND, some Silt (wet) [SM] [Class 3a]		13	S-7	SS	18	10	9	32	Drill to 20ft. Smooth drilling, dark gray wash.
				14			2		6		
				15	S-8	SS	20	15	11	43	Take S-9 from 20ft to 22ft.
				16					14		
				17							
				18							
				19							
				20							
				21	S-9	SS	15	9	8	28	Drill to 25ft. Smooth drilling, dark gray wash.
				22					10		
				23							
				24							

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project		Project No.										
145 Wolcott Street		170562204										
Location		Elevation and Datum										
Brooklyn, New York		Approx. el. 13.2 (NAVD88)										
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)			
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40		
	-10.8											
		0.3	Brown medium to fine SAND, trace Silt (wet) [SP-SM] [Class 3a]		24							
					25						Take S-10 from 25ft to 27ft.	
					26	S-10	SS	18	10	8	30	
					27					12		Drill to 30ft. Smooth drilling, dark gray wash.
					28							
					29							
		0.5	Brown medium to fine SAND, trace Silt (wet) [SP-SM] [Class 3a]		30							Take S-11 from 30ft to 32ft.
					31	S-11	SS	18	12	11	38	
					32					13		Drill to 35ft. Smooth drilling, brown wash.
					33							
					34							
		0.0	Brown medium to fine SAND, trace Silt (wet) [SP-SM] [Class 3a]		35							Take S-12 from 35ft to 37ft.
					36	S-12	SS	17	15	12	45	
					37					18		Drill to 40ft. Smooth drilling, brown wash.
				38								
				39								
	0.7	Brown fine SAND, some Silt (wet) [SM] [Class 3a]		40							Take S-13 from 40ft to 42ft. #4 = 100% #200 = 19.0%	
				41	S-13	SS	22	23	19	70		
				42					24		Drill to 45ft. Smooth drilling, brown wash.	
				43								
				44								
	0.0	Brown fine SAND, some Silt (wet) [SM] [Class 3a]		45							Take S-14 from 45ft to 47ft.	
				46	S-14	SS	21	18	15	55		
				47					22		Drill to 50ft. Smooth drilling, brown wash.	
				48								
				49								
	0.0	Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]		50							Take S-15 from 50ft to 52ft.	
				51	S-15	SS	18	14	13	45		
				52					18		Drill to 55ft. Smooth drilling, brown wash.	
				53								
				54								

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project		Project No.										
145 Wolcott Street		170562204										
Location		Elevation and Datum										
Brooklyn, New York		Approx. el. 13.2 (NAVD88)										
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)			
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40		
	-40.8											
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.0	54								
				55							Take S-16 from 55ft to 57ft.	
				56	S-16	SS	20	16		18	67	
				57						21	Drill to 60ft. Smooth drilling, brown wash.	
				58								
				59								
				0.3	60							Take S-17 from 60ft to 62ft.
				61	S-17	SS	22	16		20	70	
				62						22	Drill to 65ft. Smooth drilling, brown wash.	
				63						24		
				64								
				0.0	65							Take S-18 from 65ft to 67ft.
				66	S-18	SS	22	21		21	80	
				67						27	Drill to 70ft. Smooth drilling, brown wash.	
				68						28		
				69								
				0.3	70							Take S-19 from 70ft to 72ft.
				71	S-19	SS	22	22		30	107	
				72						34	Drill to 75ft. Smooth drilling, brown wash.	
				73						34		
			74									
			1.5	75							Take S-20 from 75ft to 77ft.	
			76	S-20	SS	20	24		29	105		
			77						34	Drill to 80ft. Smooth drilling, brown wash.		
			78						33			
			79									
			0.0	80							Take S-21 from 80ft to 82ft. -#4 = 89.9% -#200 = 19.6%	
			81	S-21	SS	18	14		9	35		
			82						14	Drill to 85ft. Mild rig chatter, brown wash.		
			83									
			84									

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project		145 Wolcott Street		Project No.		170562204					
Location		Brooklyn, New York		Elevation and Datum				Approx. el. 13.2 (NAVD88)			
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft) 10 20 30 40		
	-70.8	Reddish brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.0	84							Take S-22 from 85ft to 87ft.
	85										
	86			S-22	SS	16	18	62			
	87						23				
			Brown medium to fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.1	88						Drill to 90ft. Smooth drilling, brown wash.
	89										
	90										
	91	S-23			SS	17	17	62			
					92						Drill to 95ft. Smooth drilling, brown wash.
	93										
	94										
	95										
			Light brown medium to fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.0	96	S-24	SS	13	21	78	Take S-24 from 95ft to 97ft.
	97										
	98										
	99										
			Light brown medium to fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.1	100	S-25	SS	18	21	73	Drill to 98ft. Smooth drilling, brown wash. Take S-25 from 98ft to 100ft.
	101										
	102										
	103										
	-86.8	End of Boring at 100ft.		104						Bottom of boring at 100ft. Pull up casing, backfill with soil cuttings and bentonite plug, apply asphalt cold patch.	
				105							
				106							
				107							
				108							
				109							
				110							
				111							
				112							
				113							
				114							

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project 145 Wolcott Street			Project No. 170562204		
Location Brooklyn, New York			Elevation and Datum Approx. el. 13.5 (NAVD88)		
Drilling Company Craig Geotechnical Drilling			Date Started 2/19/2024		Date Finished 2/19/2024
Drilling Equipment CME75			Completion Depth 52.0 ft		Rock Depth Not Encountered
Size and Type of Bit 3-7/8in Tricone Roller Bit			Number of Samples Disturbed 12		Undisturbed 0 Core 0
Casing Diameter (in) 4.0		Casing Depth (ft) 15.0	Water Level (ft.) First $\nabla$ N/A		Completion $\nabla$ N/A 24 HR. $\nabla$ N/A
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30	Drilling Foreman Ryan Walden		
Sampler 2in OD Split Spoon			Field Engineer David Mcveety		
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30			

Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recor. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft) 10 20 30 40		
	+13.5	Asphalt Pavement		0						02/19/2024 Hand clear to 5ft with 3-inch ID hand auger. Take G-1 from 0.5ft to 2ft. Take G-2 from 2ft to 4ft.	
	+13.0	Dark gray gravelly coarse to fine SAND, some Clay, some Silt (moist) [FILL] [Class 7]		1							
		Brown gravelly coarse to fine SAND, some Silt (moist) [FILL] [Class 7]		2							
		Dark brown to black coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		3							
	+8.5	Reddish brown medium to fine SAND, some Silt (moist) [SM] [Class 3b]		4						Take G-3 from 4ft to 5ft.	
		Brown medium to fine SAND, trace Silt (moist) [SP-SM] [Class 3a]		5						Take S-1 from 5ft to 7ft.	
		Brown fine SAND, trace Silt (moist) [SP-SM] [Class 3a]		6	S-1	SS	12	7	6	22	
		Brown fine SAND, trace Silt (moist) [SP-SM] [Class 3a]		7						9	Take S-2 from 7ft to 9ft. -#4 = 100% -#200 = 11.8% Drive casing to 9ft. Drill to 9ft. Smooth drilling, brown wash. Take S-3 from 9ft to 11ft.
		Brown fine SAND, trace Silt (moist) [SP-SM] [Class 3a]		8	S-2	SS	14	10	9	32	
		Brown fine SAND, trace Silt (moist) [SP-SM] [Class 3a]		9						10	
		Brown fine SAND, trace Silt (moist) [SP-SM] [Class 3a]		10	S-3	SS	10	12	10	37	
		Brown fine SAND, trace Silt (moist) [SP-SM] [Class 3a]		11						17	Take S-4 from 11ft to 13ft.
		Brown fine SAND, trace Silt (moist) [SP-SM] [Class 3a]		12	S-4	SS	12	20	17	62	
		Brown fine SAND, trace Silt (moist) [SP-SM] [Class 3a]		13						21	Drive casing to 15ft. Drill to 15ft. Smooth drilling, brown wash.
		Brown fine SAND, trace Silt (moist) [SP-SM] [Class 3a]		14							
		Brown fine SAND, trace Silt (moist) [SP-SM] [Class 3a]		15						8	Take S-5 from 15ft to 17ft.
		Brown fine SAND, trace Silt (moist) [SP-SM] [Class 3a]		16	S-5	SS	11	14	11	42	
		Brown fine SAND, trace Silt (moist) [SP-SM] [Class 3a]		17						19	Drill to 20ft. Smooth drilling, brown wash.
		Brown fine SAND, trace Silt (moist) [SP-SM] [Class 3a]		18							
		Brown fine SAND, trace Silt (moist) [SP-SM] [Class 3a]		19							
		Brown fine SAND, trace Silt (moist) [SP-SM] [Class 3a]		20						8	Take S-6 from 20ft to 22ft.
		Brown fine SAND, trace Silt (moist) [SP-SM] [Class 3a]		21	S-6	SS	13	14	11	42	
		Brown fine SAND, trace Silt (moist) [SP-SM] [Class 3a]		22						21	Drill to 25ft. Smooth drilling, brown wash.
		Brown fine SAND, trace Silt (moist) [SP-SM] [Class 3a]		23							
		Brown fine SAND, trace Silt (moist) [SP-SM] [Class 3a]		24							

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project		Project No.									
145 Wolcott Street		170562204									
Location		Elevation and Datum									
Brooklyn, New York		Approx. el. 13.5 (NAVD88)									
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40	
	-10.5	Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.0	24						Take S-7 from 25ft to 27ft.  Drill to 30ft. Smooth drilling, brown wash.  Take S-8 from 30ft to 32ft.  Drill to 35ft. Smooth drilling, brown wash.  Take S-9 from 35ft to 37ft.  Drill to 40ft. Smooth drilling, brown wash.  Take S-10 from 40ft to 42ft.  Drill to 45ft. Smooth drilling, brown wash.  Take S-11 from 45ft to 47ft.  Drill to 50ft. Smooth drilling, brown wash.  Take S-12 from 50ft to 52ft.  Bottom of boring at 52ft. Pull up casing, backfill with soil cuttings and bentonite plug, apply asphalt cold patch.	
				25							
				26	S-7	SS	17	18	19		62
				27					24		
				28							
				29							
				30							
				31	S-8	SS	20	18	15		55
				32					20		
				33							
				34							
				35							
	36	S-9	SS	20	20	15	58				
	37					23					
	38										
	39										
	40										
	41	S-10	SS	18	16	14	50				
	42					20					
	43										
	44										
	45										
	46	S-11	SS	18	17	13	50				
	47					17					
	48										
	49										
	50										
	51	S-12	SS	20	19	16	58				
	52					21					
	53										
	54										
	-38.5	End of Boring at 52ft.									

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.



# LANGAN

Log of Boring **LB-13**

Sheet 1 of 2

Project 145 Wolcott Street			Project No. 170562204		
Location Brooklyn, New York			Elevation and Datum Approx. el. 13.4 (NAVD88)		
Drilling Company Craig Geotechnical Drilling			Date Started 2/7/2024		Date Finished 2/7/2024
Drilling Equipment CME75			Completion Depth 52.0 ft		Rock Depth Not Encountered
Size and Type of Bit 3-7/8in Tricone Roller Bit			Number of Samples Disturbed 16		Undisturbed 0 Core 0
Casing Diameter (in) 4.0		Casing Depth (ft) 15.0	Water Level (ft.) First $\nabla$ N/A		Completion $\nabla$ N/A 24 HR. $\nabla$ N/A
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30	Drilling Foreman Mike Gorski		
Sampler 2in OD Split Spoon			Field Engineer David Mcveety		
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30			

Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recor. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft) 10 20 30 40		
	+13.4	6-Inch Concrete Slab		0						2/7/2024 Drill through 1ft of concrete. Take S-1 from 1ft to 3ft.	
	+12.4	Dark gray coarse to fine SAND, some fine Gravel, some Silt, wood fragments (moist) [FILL] [Class 7]		0.1	1	S-1	SS	12	1	3	
		Dark brown sandy SILT, some fine Gravel, wood fragments (moist) [FILL] [Class 7]		0.0	3					3	Take S-2 from 3ft to 5ft.
		Dark brown sandy SILT, some fine Gravel, wood fragments (moist) [FILL] [Class 7]		0.0	4	S-2	SS	12	2	5	Drive casing to 4ft. Drill to 5ft. Smooth drilling, brown wash. Take S-3 from 5ft to 7ft.
		Dark brown sandy SILT, some fine Gravel, wood fragments (moist) [FILL] [Class 7]		0.0	5	S-3A	SS	3	3	2	
		Dark gray silty SAND, some fine Gravel (moist) [FILL] [Class 7]		0.0	6	S-3B	SS	16	5	13	
		Dark gray silty SAND, some fine Gravel, wood fragments (moist) [FILL] [Class 7]		0.3	7					12	Take S-4 from 7ft to 9ft. Petroleum-like odor. Creosote odor/staining/sheen on wood fragment.
		Dark gray silty SAND, some fine Gravel, wood fragments (moist) [FILL] [Class 7]		0.0	8	S-4	SS	21	24	78	Drive casing to 8ft. Drill to 9ft. Smooth drilling, brown wash. Take S-5 from 9ft to 11ft. Petroleum-like odor.
		Grayish brown medium to fine SAND, some Silt (wet) [FILL] [Class 7]		3.2	9					17	
		Grayish brown fine SAND, some Silt, wood fragments (wet) [FILL] [Class 7]		1.7	10	S-5	SS	9	2	7	
				3.2	11					2	Take S-6 from 11ft to 13ft. Petroleum-like odor.
				3.2	12	S-6	SS	11	3	8	Drill to 13ft. Smooth drilling, brown wash. Take S-7 from 13ft to 15ft.
				1.7	13					2	
				1.7	14	S-7	SS	3	4	10	
				7.4	15					6	Take S-8 from 15ft to 17ft. Petroleum-like odor.
		Grayish brown fine SAND, trace Clay, trace Silt (wet) [SP-SC] [Class 3b]		7.4	16	S-8	SS	13	6	18	Drive casing to 15ft. Drill to 20ft. Smooth drilling, brown wash.
				7.4	17					6	
				0.0	18						
				0.0	19						
		Grayish olive CLAY, trace Silt (wet) [CL] [Class 4b]		0.0	20					2	Take S-9 from 20ft to 22ft.
				0.0	21	S-9	SS	22	3	8	
		Olive CLAY, trace Silt (wet) [CL] [Class 4b]		0.0	22					2	Take S-10 from 22ft to 24ft.
				0.0	23	S-10A	SS	3	5	5	
		Olive SILT, trace Clay (wet) [ML] [Class 5b]		0.0	23	S-10B	SS	23	5	17	
				0.0	24					7	

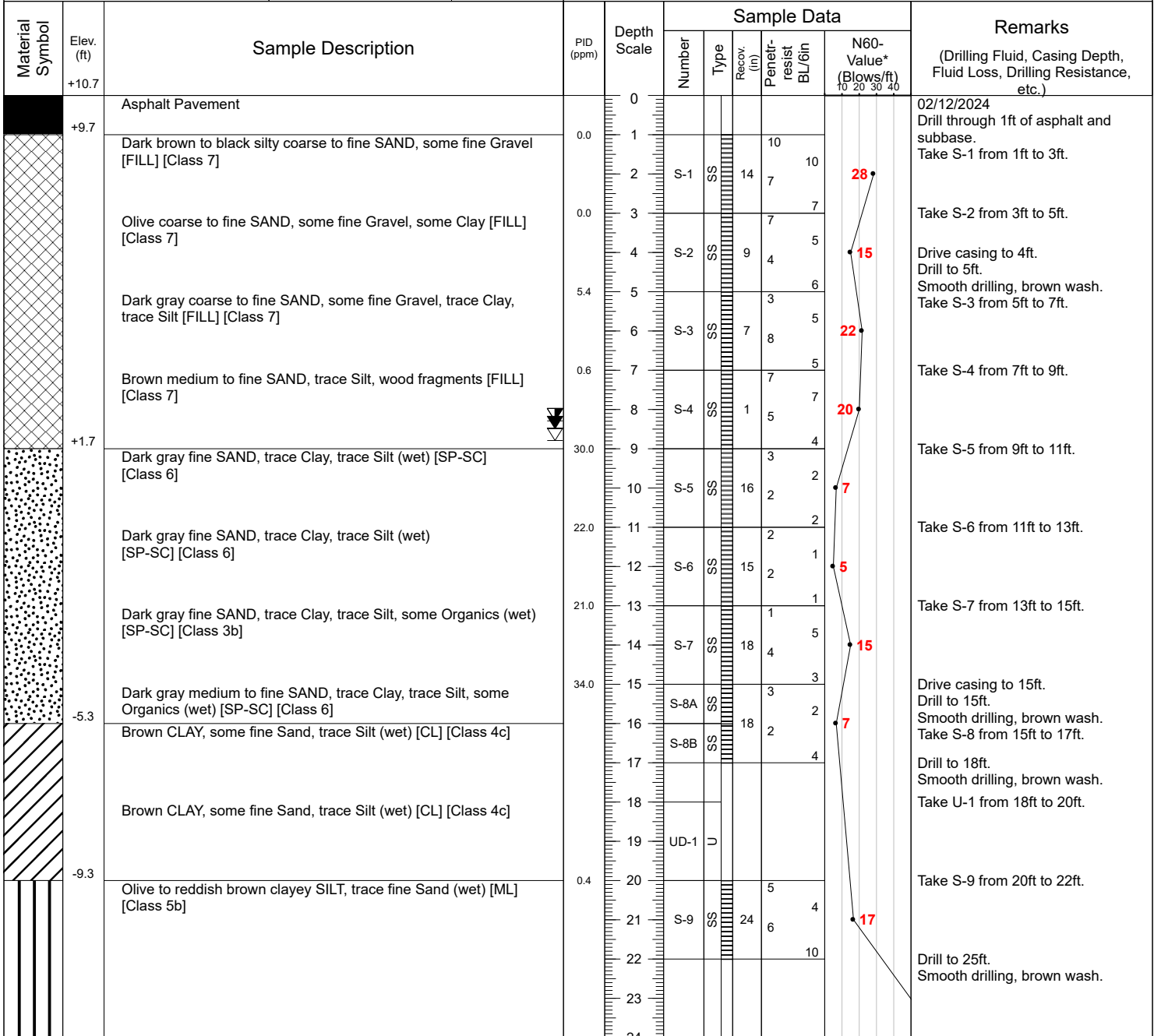
\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.



Project		Project No.								
145 Wolcott Street		170562204								
Location		Elevation and Datum								
Brooklyn, New York		Approx. el. 13.4 (NAVD88)								
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40
	-10.6			24						Drill to 25ft.
	-11.6	Olive CLAY, trace Silt (wet) [CL] [Class 4b]	0.0	25						Smooth drilling, brown wash.
				26	S-11	SS	24	3	5	Take S-11 from 25ft to 27ft. PL = 20, LL = 30, PI = 10
				27				6	8	
				28						Drill to 30ft.
				29						Smooth drilling, brown wash.
	-16.6	Olive brown coarse to fine SAND, some Clay, some fine Gravel, trace Silt (wet) [SC] [Class 3b]	0.3	30				12		Take S-12 from 30ft to 32ft.
				31	S-12	SS	9	8	8	
				32					12	Drill to 35ft.
				33						Smooth drilling, brown wash.
		Brown fine SAND, some Silt (wet) [SM] [Class 3a]	0.0	35				8		Take S-13 from 35ft to 37ft.
				36	S-13	SS	17	11	10	
				37					14	Drill to 40ft.
				38						Smooth drilling, brown wash.
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.0	40				10		Take S-14 from 40ft to 42ft.
				41	S-14	SS	18	17	14	
				42					19	Drill to 45ft.
				43						Smooth drilling, brown wash.
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.0	45				9		Take S-15 from 45ft to 47ft. #4 = 100% #200 = 10.2%
				46	S-15	SS	18	12	10	
				47					14	Drill to 50ft.
				48						Smooth drilling, brown wash.
		Brown fine SAND, some Silt (wet) [SM] [Class 3a]	0.0	50				11		Take S-16 from 50ft to 52ft.
				51	S-16	SS	17	20	15	
				52					21	Bottom of boring at 52ft. Pull up casing, backfill with bentonite plug and apply asphalt cold patch.
	-38.6	End of Boring at 52ft.		53						
				54						

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project 145 Wolcott Street			Project No. 170562204		
Location Brooklyn, New York			Elevation and Datum Approx. el. 10.7 (NAVD88)		
Drilling Company Craig Geotechnical Drilling			Date Started 2/12/2024		Date Finished 2/14/2024
Drilling Equipment CME75			Completion Depth 52.0 ft		Rock Depth Not Encountered
Size and Type of Bit 3-7/8in Tricone Roller Bit			Number of Samples Disturbed 15		Undisturbed 1 Core 0
Casing Diameter (in) 4.0		Casing Depth (ft) 15.0	Water Level (ft.) First $\nabla$ 8.8		Completion $\nabla$ 8.5 24 HR. $\nabla$ 8.3
Casing Hammer Automatic		Weight (lbs) 140	Drop (in) 30		
Sampler 2in OD Split Spoon			Drilling Foreman Mike Gorski		
Sampler Hammer Automatic			Weight (lbs) 140		
Drop (in) 30			Field Engineer David Mcveety		



\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project		Project No.									
145 Wolcott Street		170562204									
Location		Elevation and Datum									
Brooklyn, New York		Approx. el. 10.7 (NAVD88)									
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft) 10 20 30 40		
	-13.3			24							
	-14.3	No Recovery		25	S-10	SS		50/1"		84/1"	Take S-10 from 25ft to 27ft. Refusal encountered at 25.08ft. Drill to 30.5ft. Mild to moderate chatter, brown wash.
				26							
				27							
				28							
				29							Obstruction encountered at 29ft, boulder likely.
		Gray coarse to fine SAND, some fine Gravel, some Clay, trace Silt (wet) [SC] [Class 3a]		30							Take S-11 from 30.5ft to 32.5ft.
				31	S-11	SS			18 23	77	Drill to 35ft. Mild rig chatter, brown wash. Attempt to perform SPT sample at 35ft. Sampler breaks off of rods. Backfill with bentonite plug, and offset location about 5ft SE. 2/14/2024
				32					12 23		Drill to 35ft. Take S-12 from 35ft to 37ft. #4 = 96.5% #200 = 18.3%
				33							
				34							
		Dark brown coarse to fine SAND, some Silt, trace fine Gravel (wet) [SM] [Class 3a]		35					15 14	47	Drill to 40ft. Smooth drilling, brown wash.
				36	S-12	SS			15 14		
				37							
				38							
				39							
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]		40					12 12		Take S-13 from 40ft to 42ft.
				41	S-13	SS			18 17	48	Drill to 45ft. Smooth drilling, brown wash.
				42							
				43							
				44							
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]		45					19 22		Take S-14 from 45ft to 47ft.
				46	S-14	SS			15 18	67	Drill to 50ft. Smooth drilling, brown wash.
				47							
				48							
				49							
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]		50					18 19		Take S-15 from 50ft to 52ft. Bottom of boring at 52ft. Pull up casing, backfill with soil cuttings and bentonite to 20.5ft below grade. Install groundwater observation well. Refer to Appendix A for Groundwater Observation Well Construction Log.
				51	S-15	SS			21 23	70	
				52							
		End of Boring at 52ft.		53							
				54							

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project 145 Wolcott Street			Project No. 170562204		
Location Brooklyn, New York			Elevation and Datum Approx. el. 10.7 (NAVD88)		
Drilling Company Craig Geotechnical Drilling			Date Started 2/19/2024		Date Finished 2/19/2024
Drilling Equipment CME75			Completion Depth 52.0 ft		Rock Depth Not Encountered
Size and Type of Bit 3-7/8in Tricone Roller Bit			Number of Samples Disturbed 14		Undisturbed 1 Core 0
Casing Diameter (in) 4.0		Casing Depth (ft) 15.0	Water Level (ft.) First $\nabla$ N/A		Completion $\nabla$ N/A 24 HR. $\nabla$ N/A
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30	Drilling Foreman Ryan Walden		
Sampler 2in OD Split Spoon			Field Engineer David Mcveety		
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30			

Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recor. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40
	+10.7	Asphalt Pavement		0					2/19/2024 Drill through 1ft of asphalt and subbase. Take S-1 from 1ft to 3ft.	
	+9.7	Brown to black silty coarse to fine SAND, some fine Gravel (moist) [FILL] [Class 7]		1	S-1	SS	6	4	8	20
		Brown to black coarse to fine SAND, some fine Gravel, trace Silt, trace Clay (moist) [FILL] [Class 7]		3			3		6	
		Brown to black coarse to fine SAND, some fine Gravel, trace Silt, trace Clay, wood fragments (moist) [FILL] [Class 7]		4	S-2	SS	12	4	4	13
				5			2		2	
				6	S-3	SS	5	3	1	7
	+3.7	Dark brown silty medium to fine SAND (wet) [SM] [Class 3b]		7			7		3	
				8	S-4	SS	12	5	6	18
		Dark brown medium to fine SAND, trace Clay (wet) [SP-SC] [Class 3a]		9			3		3	
				10	S-5	SS	3		20	38
		Dark brown medium to fine SAND, trace Clay (wet) [SP-SC] [Class 3b]		11			5		3	
				12	S-6	SS	12	5	5	17
				13					5	
				14						
		Dark brown medium to fine SAND, trace Clay (wet) [SP-SC] [Class 3b]		15			6		5	
				16	S-7	SS	12	5	5	17
				17					5	
				18						
				19						
	-9.3	Grayish olive CLAY, trace Silt, trace fine Sand (wet) [CL] [Class 4b]		20	S-8A	SS		1	2	8
		Light brown CLAY, some Silt (wet) [CL] [Class 4b]		21	S-8B	SS	24	3	3	
				22						
		Brown silty CLAY (wet) [CL] [Class 4b]		23						
				24						

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project		Project No.									
145 Wolcott Street		170562204									
Location		Elevation and Datum									
Brooklyn, New York		Approx. el. 10.7 (NAVD88)									
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40	
	-13.3										
	-14.3	Brown clayey SILT, 2in fine Sand lens (wet) [ML] [Class 5b]		24	UD-1	U					
				25							Take S-9 from 25ft to 27ft.
				26	S-9	SS	22	6		18	
				27							Drill to 30ft. Smooth drilling, brown wash.
				28							
				29							
	-19.3	Brown coarse to fine SAND, some fine Gravel, some Silt (wet) [SM] [Class 3b]		30							Take S-10 from 30ft to 32ft. -#4 = 77.2% -#200 = 26.4%
				31	S-10	SS	18	7		20	
				32							Drill to 35ft. Smooth drilling, brown wash.
				33							
				34							
		Brown medium to fine SAND, some Silt (wet) [SM] [Class 3a]		35							Take S-11 from 35ft to 37ft.
				36	S-11	SS	18	11		35	
				37							Drill to 40ft. Smooth drilling, brown wash.
				38							
				39							
		Brown medium to fine SAND, some Silt (wet) [SM] [Class 3a]		40							Take S-12 from 40ft to 42ft.
				41	S-12	SS	7	14		47	
				42							Drill to 45ft. Smooth drilling, brown wash.
				43							
				44							
		Brown medium to fine SAND, some Silt (wet) [SM] [Class 3a]		45							Take S-13 from 45ft to 47ft.
				46	S-13	SS	11	14		43	
				47							Drill to 50ft. Smooth drilling, brown wash.
				48							
				49							
		Brown fine SAND, some Silt (wet) [SM] [Class 3a]		50							Take S-14 from 50ft to 52ft.
				51	S-14	SS	12	19		57	
				52							Bottom of boring at 52ft. Pull up casing, backfill with soil cuttings and bentonite plug, apply asphalt cold patch.
		End of Boring at 52ft.		53							
				54							

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project 145 Wolcott Street			Project No. 170562204		
Location Brooklyn, New York			Elevation and Datum Approx. el. 10.7 (NAVD88)		
Drilling Company Craig Geotechnical Drilling			Date Started 2/8/2024		Date Finished 2/8/2024
Drilling Equipment CME75			Completion Depth 100.0 ft		Rock Depth Not Encountered
Size and Type of Bit 3-7/8in Tricone Roller Bit			Number of Samples Disturbed 23		Undisturbed 1 Core 0
Casing Diameter (in) 4.0		Casing Depth (ft) 30.0	Water Level (ft.) First $\nabla$ N/A		Completion $\nabla$ N/A 24 HR. $\nabla$ N/A
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30	Drilling Foreman Mike Gorski		
Sampler 2in OD Split Spoon			Field Engineer David Mcveety		
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30			

Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recor. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft) 10 20 30 40		
	+10.7										
	+10.2	6-inch Concrete Slab		0							02/8/2024 Drill through 0.5ft of concrete. Hand clear to 5ft using 3-inch ID hand auger.
		Dark brown coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		1							Take G-1 from 0.5ft to 2ft. Take G-2 from 2ft to 4ft.
		Dark brown coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		2							
		Dark brown coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		3							
		Dark brown coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		4							Take G-3 from 4ft to 5ft. Petroleum-like liquid throughout the sample.
		Dark brown coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		5							Take S-1 from 5ft to 7ft. Petroleum-like liquid throughout the sample.
		Dark brown coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		6	S-1A		11	1	2		
		Dark brown coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		7	S-1B			1	2		
		Dark gray coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		8	S-2		10	2	2		Take S-2 from 7ft to 9ft. Sheen and petroleum odor.
		Dark brown medium to fine SAND, some Silt, wood fragments (wet) [FILL] [Class 7]		9					7		Drive casing to 9ft. Introduce drilling fluid and drill to 9ft. Smooth drilling, dark gray wash.
		Dark brown medium to fine SAND, some Silt, wood fragments (wet) [FILL] [Class 7]		10	S-3		12	3	2		Take S-3 from 9ft to 11ft. Petroleum-like liquid throughout the sample.
		Dark brown medium to fine SAND, some Silt, wood fragments (wet) [FILL] [Class 7]		11					3		Take S-4 from 11ft to 13ft. Petroleum-like liquid throughout the sample.
		Dark brown medium to fine SAND, some Silt, wood fragments (wet) [FILL] [Class 7]		12	S-4		14	2	2		Drill to 13ft. Smooth drilling, dark gray wash.
		Dark brown medium to fine SAND, some Silt, wood fragments (wet) [FILL] [Class 7]		13	S-5A			4	6		Take S-5 from 13ft to 15ft. Sheen and petroleum odor.
		Gray medium to fine SAND, some Silt (wet) [SM] [Class 3b]		14	S-5B			12	5		
		Gray medium to fine SAND, some Silt (moist) [SM] [Class 3b]		15					4		Take S-6 from 15ft to 17ft.
		Gray medium to fine SAND, some Silt (moist) [SM] [Class 3b]		16	S-6A			18	4		
		Olive CLAY, trace Silt (wet) [CL] [Class 4b]		17	S-6B				4		
		Olive CLAY, trace Silt (wet) [CL] [Class 4b]		18							Drill to 18ft. Smooth drilling, dark gray wash.
		Olive CLAY, trace Silt (wet) [CL] [Class 4b]		19	UD-1						Take U-1 from 18ft to 20ft.
		Olive CLAY, trace Silt, 2in fine Gravel lens (wet) [CL] [Class 4b]		20					3		Take S-7 from 20ft to 22ft. PL = 20, LL = 27, PI = 7
		Olive CLAY, trace Silt, 2in fine Gravel lens (wet) [CL] [Class 4b]		21	S-7			21	4		
		Olive CLAY, trace Silt, 2in fine Gravel lens (wet) [CL] [Class 4b]		22					6		Drill to 25ft. Mild rig chatter, dark gray wash.
		Olive CLAY, trace Silt, 2in fine Gravel lens (wet) [CL] [Class 4b]		23							
		Olive CLAY, trace Silt, 2in fine Gravel lens (wet) [CL] [Class 4b]		24							

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project		Project No.								
145 Wolcott Street		170562204								
Location		Elevation and Datum								
Brooklyn, New York		Approx. el. 10.7 (NAVD88)								
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40
	-13.3									
	-14.3									
		Olive brown coarse to fine SAND, some Clay, some fine Gravel (wet) [SC] [Class 3a]	0.0	24						
				25						Take S-8 from 25ft to 27ft.
				26	S-8	SS	16	12	8	33
				27					16	Push casing to 23ft. Drive casing to 30ft. Drill to 30ft. Smooth drilling, dark gray wash.
				28						
				29						
		Olive brown coarse to fine SAND, some Clay, some fine Gravel (moist) [SC] [Class 3b]	0.0	30						Take S-9 from 30ft to 32ft.
				31	S-9	SS	11	10	6	27
				32					11	Drill to 35ft. Smooth drilling, brown wash.
				33						
				34						
		Brown fine SAND, some Silt (moist) [SM] [Class 3a]	0.0	35						Take S-10 from 35ft to 37ft.
				36	S-10	SS	20	14	12	43
				37					14	Drill to 40ft. Smooth drilling, brown wash.
				38						
				39						
		Brown fine SAND, some Silt (moist) [SM] [Class 3a]	0.0	40						Take S-11 from 40ft to 42ft.
				41	S-11	SS	20	18	13	52
				42					18	Drill to 45ft. Smooth drilling, brown wash.
				43						
				44						
		Brown fine SAND, some Silt (wet) [SM] [Class 3a]	0.0	45						Take S-12 from 45ft to 47ft.
				46	S-12	SS	23	16	13	48
				47					18	Drill to 50ft. Smooth drilling, brown wash.
				48						
				49						
		Brown silty fine SAND (wet) [SM] [Class 3a]	0.0	50						Take S-13 from 50ft to 52ft.
				51	S-13	SS	20	20	16	60
				52					21	Drill to 55ft. Smooth drilling, brown wash.
				53						
				54						

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.



Project		Project No.									
145 Wolcott Street		170562204									
Location		Elevation and Datum									
Brooklyn, New York		Approx. el. 10.7 (NAVD88)									
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40	
	-43.3										
			Brown silty fine SAND (wet) [SM] [Class 3a]		54						
					55						Take S-14 from 55ft to 57ft.
					56	S-14	SS	20	15		57
					57				20		Drill to 60ft. Smooth drilling, brown wash.
					58						
					59						
			Brown silty fine SAND (wet) [SM] [Class 3a]		60				12		Take S-15 from 60ft to 62ft.
					61	S-15	SS	20	15		55
					62				18		Drill to 65ft. Smooth drilling, brown wash.
					63				22		
					64						
			Brown silty fine SAND (wet) [SM] [Class 3a]		65				18		Take S-16 from 65ft to 67ft.
					66	S-16	SS	23	20		75
					67				25		Drill to 70ft. Smooth drilling, brown wash.
					68				26		
					69						
			Brown fine SAND, some Silt (wet) [SM] [Class 3a]		70				14		Take S-17 from 70ft to 72ft.
					71	S-17	SS	20	22		77
				72				24		#4 = 100%	
				73				28		#200 = 22.9%	
				74						Drill to 75ft. Smooth drilling, brown wash.	
				75							
		Brown silty fine SAND (wet) [SM] [Class 3a]		76	S-18	SS	20	18		80	
				77				21		Take S-18 from 75ft to 77ft.	
				78				27		Drill to 80ft. Smooth drilling, brown wash.	
				79				17			
				80							
		Brown silty fine SAND (wet) [SM] [Class 3a]		81	S-19	SS	24	20		92	
				82				25		Take S-19 from 80ft to 82ft.	
				83				30		Drill to 85ft. Smooth drilling, brown wash.	
				84				36			

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.



Project		145 Wolcott Street		Project No.		170562204						
Location		Brooklyn, New York		Elevation and Datum		Approx. el. 10.7 (NAVD88)						
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)			
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40		
	-73.3	Brown silty fine SAND (wet) [SM] [Class 3a]		84								
				85								
				86	S-20	SS	24	24	20	73	Take S-20 from 85ft to 87ft.	
				87					25		Drill to 90ft. Smooth drilling, brown wash.	
				88								
				89								
			Brown varved fine SAND, some Silt (wet) [SM] [Class 3a]		90							
					91	S-21	SS	18	22	21	72	Take S-21 from 90ft to 92ft.
					92					25	Drill to 95ft. Smooth drilling, brown wash.	
					93							
				94								
		Brown varved fine SAND, some Silt (wet) [SM] [Class 3a]		95								
				96	S-22	SS	16	23	21	73	Take S-22 from 95ft to 97ft, Refusal encountered at 96.7ft.	
				97					50/2"	Drill to 98ft. Mild rig chatter, brown wash.		
				98								
		Reddish brown silty SAND (wet) [SM] [Class 3a]		98								
				99	S-23	SS	15	8	10	30	Take S-23 from 98ft to 100ft.	
				100					8			
		End of Boring at 100ft.		100							Bottom of boring at 100ft. Pull up casing, backfill with bentonite and apply asphalt cold patch.	
				101								
				102								
				103								
				104								
				105								
				106								
				107								
				108								
				109								
				110								
				111								
				112								
				113								
				114								

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project 145 Wolcott Street			Project No. 170562204		
Location Brooklyn, New York			Elevation and Datum Approx. el. 10.6 (NAVD88)		
Drilling Company Craig Geotechnical Drilling			Date Started 2/7/2024		Date Finished 2/7/2024
Drilling Equipment CME75			Completion Depth 52.0 ft		Rock Depth Not Encountered
Size and Type of Bit 3-7/8in Tricone Roller Bit			Number of Samples Disturbed 14		Undisturbed 1 Core 0
Casing Diameter (in) 4.0		Casing Depth (ft) 15.0	Water Level (ft.) First $\nabla$ N/A		Completion $\nabla$ N/A 24 HR. $\nabla$ N/A
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30	Drilling Foreman Mike Gorski		
Sampler 2in OD Split Spoon			Field Engineer David Mcveety		
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30			

Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft) 10 20 30 40	
	+10.6	Asphalt Pavement		0						2/7/2024
	+8.6	Dark brown coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		2				3		Drill through 2ft of asphalt and subbase. Take S-1 from 2ft to 4ft.
		Dark brown coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		3	S-1	SS	2	1	1	3
		Brown medium to fine SAND, trace Clay, trace Silt, trace fine Gravel (moist) [FILL] [Class 7]		4				WOH		Push casing to 4ft. Drill to 4ft. Smooth drilling, dark gray wash. Take S-2 from 4ft to 6ft.
		No recovery		5	S-2	SS	8	1	1	3
		Black coarse to fine SAND, some Silt (wet) [FILL] [Class 7]		6				WOH		Take S-3 from 6ft to 8ft.
		No Recovery		7	S-3	SS	7	2	1	5
		Grayish brown fine SAND, some Silt (wet) [SM] [Class 3b]		8				WOH		Push casing to 8ft. Drill to 8ft. Smooth drilling. Change in wash color from brown to dark gray at 7.7ft. Petroleum-like odor. Take S-4 from 8ft to 10ft.
		Grayish brown fine SAND, trace Clay, trace Silt (wet) [SP-SC] [Class 3b]		9	S-4	SS	0	1	1	3
		Gray CLAY, trace Silt (wet) [CL] [Class 4b]		10				WOH		Take S-5 from 10ft to 12ft. Petroleum-like odor.
		Gray CLAY, trace Silt (wet) [CL]		11	S-5	SS	6	1	1	2
				12				WOH		Drill to 12ft. Smooth drilling, dark gray wash. Take S-6 from 12ft to 14ft.
				13	S-6	SS	0			0
				14				WOH		Take S-7 from 14ft to 16ft. Petroleum-like odor.
				15	S-7	SS	14	7	7	23
				16				WOH		Drive casing to 19ft. Drill to 20ft. Smooth drilling, gray wash. Petroleum-like odor.
				17						
				18						
				19						
				20						
				21	S-8A	SS	12	4	5	15
				22	S-8B	SS			4	
				23						
				24						

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project		145 Wolcott Street		Project No.		170562204						
Location		Brooklyn, New York		Elevation and Datum				Approx. el. 10.6 (NAVD88)				
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft) 10 20 30 40			
[Diagonal Hatching]	-13.4	Gray CLAY, trace Silt (wet) [CL] [Class 4b]	0.0	24	UD-1	U					Take S-9 from 25ft to 27ft. Petroleum-like odor. PL = 20, LL = 25, PI = 5	
	25			S-9	SS	24	9	8	28			
[Dotted Pattern]	-19.4	Dark brown coarse to fine SAND, some Silt, trace fine Gravel (wet) [SM] [Class 3b]	0.0	26							Drill to 30ft. Smooth drilling, dark gray wash.	
	27							12				
	28											
	[Dotted Pattern]	-19.4	Dark brown coarse to fine SAND, some Silt, trace fine Gravel (wet) [SM] [Class 3b]	0.0	30							Take S-10 from 30ft to 32ft. Petroleum-like odor.
					31	S-10	SS	17	7	8	25	
					32					8		
	[Dotted Pattern]	-19.4	Brown silty medium to fine SAND (wet) [SM] [Class 3b]	0.0	33							Drill to 35ft. Smooth drilling, brown wash.
					34							
					35					5		
	[Dotted Pattern]	-19.4	Brown silty medium to fine SAND (wet) [SM] [Class 3b]	0.0	36	S-11	SS	14	7	6	22	Take S-11 from 35ft to 37ft.
					37					6		
					38							
	[Dotted Pattern]	-19.4	Brown fine SAND, some Silt (wet) [SM] [Class 3a]	0.0	39							Drill to 40ft. Smooth drilling, brown wash.
40									8			
41					S-12	SS	16	14	12	43		
[Dotted Pattern]	-19.4	Brown fine SAND, some Silt (wet) [SM] [Class 3a]	0.0	42							Take S-12 from 40ft to 42ft. #4 = 100% #200 = 15.3%	
				43						13		
				44								
[Dotted Pattern]	-19.4	Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.0	45							Drill to 45ft. Smooth drilling, brown wash.	
				46	S-13	SS	15	16	14	50		
				47						17		
[Dotted Pattern]	-19.4	Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.0	48							Take S-13 from 45ft to 47ft.	
				49					9			
				50	S-14	SS	18	16	14	50		
[Dotted Pattern]	-19.4	Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.0	51							Drill to 50ft. Smooth drilling, brown wash.	
				52					10			
				53								
[Dotted Pattern]	-41.4	End of Boring at 52ft.	0.0	54							Take S-14 from 50ft to 52ft.	
				55								
				52							Bottom of boring at 52ft. Pull up casing, backfill with bentonite, and apply asphalt cold patch.	

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project 145 Wolcott Street			Project No. 170562204		
Location Brooklyn, New York			Elevation and Datum Approx. el. 10.7 (NAVD88)		
Drilling Company Craig Geotechnical Drilling			Date Started 2/6/2024		Date Finished 2/6/2024
Drilling Equipment CME75			Completion Depth 100.0 ft		Rock Depth Not Encountered
Size and Type of Bit 3-7/8in Tricone Roller Bit			Number of Samples Disturbed 29		Undisturbed 0 Core 0
Casing Diameter (in) 4.0		Casing Depth (ft) 15.0	Water Level (ft.) First $\nabla$ N/A		Completion $\nabla$ N/A 24 HR. $\nabla$ N/A
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30	Drilling Foreman Mike Gorski		
Sampler 2in OD Split Spoon			Field Engineer David Mcveety		
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30			

Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
					Number	Type	Recov. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft) 10 20 30 40	
	+10.7	12-Inch Concrete Slab		0						02/6/2024 Drill through 1ft of concrete. Take S-1 from 1ft to 3ft.
	+9.7	Grayish brown coarse to fine SAND, some Silt, some fine Gravel (moist) [FILL] [Class 7]		1						
		Grayish brown coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		2	S-1	SS	6	20	12	53
		Grayish brown coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		3				10		
		Grayish brown coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		4	S-2	SS	1	1	2	5
		Grayish brown coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		5				1		
		Brown coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		6	S-3	SS	12	3	2	8
		Brown coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		7				3		
		Brown coarse to fine SAND, some fine Gravel, some Silt (wet) [FILL] [Class 7]		8	S-4	SS	9	3	3	10
		Gray coarse to fine SAND, some fine Gravel, some Silt (wet) [FILL] [Class 7]		9				4		
		Gray medium to fine SAND, trace Silt (wet) [SP-SM] [Class 3a]		10	S-5	SS	5	2	1	5
				11				7		
				12	S-6A	SS	7			
				13	S-6B	SS	13	10	8	30
				14				8		
		Dark brown coarse to fine SAND, trace fine Gravel, trace Silt (wet) [SP-SM] [Class 6]		15				1		
		Dark brown coarse to fine SAND, trace Silt, trace fine Gravel (wet) [SP-SM] [Class 3b]		16	S-7	SS	9	3	2	8
		Dark brown coarse to fine SAND, trace fine Gravel, trace Silt (wet) [SP-SM] [Class 6]		17				3		
		Dark brown coarse to fine SAND, trace fine Gravel, trace Silt (wet) [SP-SM] [Class 6]		18	S-8	SS	15	3	4	12
		Dark brown coarse to fine SAND, trace fine Gravel, trace Silt (wet) [SP-SM] [Class 6]		19				2		
		Dark brown coarse to fine SAND, trace fine Gravel, trace Silt (wet) [SP-SM] [Class 3b]		20	S-9	SS	7	2	3	8
		Dark brown coarse to fine SAND, trace fine Gravel, trace Silt (wet) [SP-SM] [Class 3b]		21				3		
		Dark brown medium to fine SAND, trace Silt (wet) [SP-SM] [Class 3b]		22	S-10	SS	10	3	4	12
				23				4		
				24				3		

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project		Project No.									
145 Wolcott Street		170562204									
Location		Elevation and Datum									
Brooklyn, New York		Approx. el. 10.7 (NAVD88)									
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40	
	-13.3										
		Dark brown coarse to fine SAND, trace fine Gravel, trace Silt (wet) [SP-SM] [Class 3b]		24	S-11	SS	112	3		10	
				25				4			Take S-12 from 25ft to 27ft.
				26	S-12	SS	11	5		15	Drill to 27ft. Smooth drilling, brown wash. Take S-13 from 27ft to 29ft.
	-16.3	Brown sandy CLAY, trace Silt (wet) [CL] [Class 4c]		27				3			
		Brown sandy CLAY, trace Silt (wet) [CL] [Class 4b]		28	S-13	SS	17	3		10	
				29				5			Take S-14 from 29ft to 31ft. -mc = 26.9% PL = 20, LL = 30, PI = 10
				30	S-14	SS	14	6		20	
				31				3			Drill to 31ft. Smooth drilling, brown wash. Take S-15 from 31ft to 33ft.
				32	S-15	SS	14	7		20	
				33							Drill to 35ft. Smooth drilling, brown wash.
				34							
	-24.6	Brown sandy CLAY, trace Silt (wet) [CL] [Class 4b]		35	S-16A	SS		4			Take S-16 from 35ft to 37ft.
		Brown clayey coarse to fine SAND, some fine Gravel (wet) [SC] [Class 3a]		36	S-16B	SS		16		16	
				37						16	Drill to 40ft. Smooth drilling, brown wash.
				38							
				39							
		Brown coarse to fine SAND, some Clay, some fine Gravel (wet) [SC] [Class 3a]		40				13			Take S-17 from 40ft to 42ft.
				41	S-17	SS		17		8	
				42							Drill to 45ft. Smooth drilling, brown wash.
				43							
				44							
		Brown fine SAND, trace Clay, trace Silt (wet) [SP-SC] [Class 3a]		45				13			Take S-18 from 45ft to 47ft.
				46	S-18	SS		17		14	
				47							Drill to 50ft. Smooth drilling, brown wash.
				48							
				49							
		Brown fine SAND, trace Clay, trace Silt (wet) [SP-SC] [Class 3a]		50				8			Take S-19 from 50ft to 52ft.
				51	S-19	SS		16		18	
				52							Drill to 55ft. Smooth drilling, brown wash.
				53							
				54							

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project		145 Wolcott Street		Project No.		170562204					
Location		Brooklyn, New York		Elevation and Datum		Approx. el. 10.7 (NAVD88)					
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40	
	-43.3										
		Brown fine SAND, trace Clay, trace Silt (wet) [SP-SC] [Class 3a]	0.0	54							
				55							
				56	S-20	SS	16	19	16		58
				57					24		
				58							
				59							
				60							
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.0	60							
				61	S-21	SS	18	19	17		60
				62					21		
				63							
				64							
				65							
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.0	65							
				66	S-22	SS	16	21	17		63
				67					24		
				68							
				69							
				70							
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]	0.0	70							
				71	S-23	SS	18	19	14		55
				72					21		
				73							
			74								
			75								
	Brown coarse to fine SAND, some fine Gravel, trace Silt (wet) [SP-SM] [Class 3a]	0.0	75								
			76	S-24	SS	9	57	51		180	
			77					60			
			78								
			79								
			80								
	Brown coarse to fine SAND, some fine Gravel, trace Silt (wet) [SP-SM] [Class 3a]	0.0	80	S-25A	SS	17	25	23		80	
	Brown medium to fine SAND, trace Silt (wet) [SP-SM] [Class 3a]		81	S-25B	SS						
			82					33			
			83								
			84								

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project		Project No.											
145 Wolcott Street		170562204											
Location		Elevation and Datum											
Brooklyn, New York		Approx. el. 10.7 (NAVD88)											
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)				
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40			
	-73.3	Brown coarse to fine SAND, trace Silt, trace fine Gravel (wet) [SP-SM] [Class 3a]  Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]  Brown medium to fine SAND, trace Silt (wet) [SP-SM] [Class 3a]  Brown medium to fine SAND, trace Silt (wet) [SP-SM] [Class 3a]  End of Boring at 100ft.		84									
			0.0		85								
					86	S-26	SS	17	20	23	87	Take S-26 from 85ft to 87ft. -mc = 16.6% #4 = 97.7% #200 = 9.5%	
					87					26		Drill to 90ft. Smooth drilling, brown wash.	
					88								
					89								
					0.2	90							
						91	S-27	SS	17	15	26	85	Take S-27 from 90ft to 92ft. Naphthalene-like odor.
						92					25		Drill to 95ft. Smooth drilling, brown wash.
						93							
				94									
				0.3	95								
				96	S-28	SS	17	25	33	107	Take S-28 from 95ft to 97ft. Naphthalene-like odor.		
				97					32		Drill to 98ft. Smooth drilling, brown wash.		
				4.9	98								
				99	S-29	SS	22	22	25	85	Take S-29 from 98ft to 100ft. Naphthalene-like odor.		
				100					28		Bottom of boring at 100ft. Pull up casing, backfill with soil cuttings and bentonite plug, concrete patch to match existing surface.		
				101									
				102									
				103									
				104									
				105									
				106									
				107									
				108									
				109									
				110									
				111									
				112									
				113									
				114									

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.



# LANGAN

Log of Boring **LB-19(OW)**

Sheet 1 of 2

Project 145 Wolcott Street			Project No. 170562204		
Location Brooklyn, New York			Elevation and Datum Approx. el. 10.2 (NAVD88)		
Drilling Company Craig Geotechnical Drilling			Date Started 2/2/2024		Date Finished 2/2/2024
Drilling Equipment CME75			Completion Depth 52.0 ft		Rock Depth Not Encountered
Size and Type of Bit 3-7/8in Tricone Roller Bit			Number of Samples Disturbed 19		Undisturbed 0 Core 0
Casing Diameter (in) 4.0		Casing Depth (ft) 15.0	Water Level (ft.) First $\nabla$ 8.8		Completion $\nabla$ 9.0 24 HR. $\nabla$ 9.1
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30	Drilling Foreman Mike Gorski		
Sampler 2in OD Split Spoon			Field Engineer David Mcveety		
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30			

Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft) 10 20 30 40		
	+10.2	Asphalt Pavement		0						02/2/2024 Drill through 1ft of asphalt and subbase. Take S-1 from 1ft to 3ft.	
	+9.2	Dark brown coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		1	S-1	SS		8	6	20	
		Dark brown coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		2				6			
		Dark brown coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		3	S-2A	SS		15	14		Take S-2 from 3ft to 5ft. Drive casing to 4ft.
		Dark brown coarse to fine SAND, some fine Gravel, some Silt (moist) [FILL] [Class 7]		4	S-2B	SS		10	10	28	Drill to 5ft. Smooth drilling, grayish brown wash.
	+5.2	Brown coarse to fine SAND, trace Silt (moist) [SP-SM] [Class 3b]		5				4	5		Take S-3 from 5ft to 7ft.
		Brown coarse to fine SAND, trace Silt (moist) [SP-SM] [Class 6]		6	S-3	SS		6	3	12	
		Brown coarse to fine SAND, trace Silt (moist) [SP-SM] [Class 6]		7				5	4		Take S-4 from 7ft to 9ft.
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3b]		8	S-4	SS		8	2	7	Drive casing to 8ft. Drill to 9ft. Smooth drilling, brown wash.
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3b]		9				2	2		Take S-5 from 9ft to 11ft.
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3b]		10	S-5	SS		13	2	10	
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 6]		11				5	6		Take S-6 from 11ft to 13ft.
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 6]		12	S-6	SS		11	5	23	Drive casing to 15ft. Drill to 15ft. Smooth drilling, brown wash.
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 6]		13					7		
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 6]		15				1			Take S-7 from 15ft to 17ft.
		Dark brown coarse to fine SAND, trace Silt, trace fine Gravel (wet) [SP-SM] [Class 3b]		16	S-7	SS		17	1	2	
		Dark brown coarse to fine SAND, trace Silt, trace fine Gravel (wet) [SP-SM] [Class 3b]		17				2			Take S-8 from 17ft to 19ft.
		No recovery		18	S-8	SS		3	4	10	Drill to 19ft. Smooth drilling, brown wash.
		No recovery		19				4	4		Take S-9 from 19ft to 21ft.
		Dark brown coarse to fine SAND, trace Silt, trace fine Gravel (wet) [SP-SM] [Class 3b]		20	S-9	SS		0	3	10	
		Dark brown coarse to fine SAND, trace Silt, trace fine Gravel (wet) [SP-SM] [Class 3b]		21				4	3		Take S-10 from 21ft to 23ft.
		No recovery		22	S-10	SS		14	4	12	Drill to 23ft. Smooth drilling, brown wash.
		No recovery		23				5	3		Take S-11 from 23ft to 25ft.
				24					6		

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.



Project		Project No.									
145 Wolcott Street		170562204									
Location		Elevation and Datum									
Brooklyn, New York		Approx. el. 10.2 (NAVD88)									
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft) 10 20 30 40		
	-13.8	No recovery		24	S-11	SS	0	5		18	Take S-12 from 25ft to 27ft.
				25				5			Drill to 27ft. Smooth drilling, brown wash. Take S-13 from 27ft to 29ft.
		Dark brown coarse to fine SAND, trace Silt, trace fine Gravel (wet) [SP-SM] [Class 3b]		26	S-12	SS	0	4		17	Drill to 30ft. Smooth drilling, brown wash.
				27				4			Take S-14 from 30ft to 32ft. -#4 = 93.1% -#200 = 6.0%
		Dark brown coarse to fine SAND, trace Silt, trace fine Gravel (wet) [SP-SM] [Class 3b]		28	S-13	SS	6	4		13	Take S-15 from 32ft to 34ft.
				29				4			Drill to 35ft. Smooth drilling, brown wash.
		No recovery		30				5			Take S-16 from 35ft to 37ft.
		Dark brown coarse to fine SAND, trace Silt, trace fine Gravel (wet) [SP-SM] [Class 3b]		31	S-14	SS	8	3		12	Drill to 40ft. Moderate rig chatter, brown wash. Boulder likely.
				32				4			Take S-17 from 40ft to 42ft.
		No recovery		33	S-15	SS	0	4		12	Drill to 45ft. Light rig chatter, brown wash.
				34				4			Take S-18 from 45ft to 47ft.
		Dark brown coarse to fine SAND, trace Silt, trace fine Gravel (wet) [SP-SM] [Class 3b]		35				4			Drill to 50ft. Smooth drilling, brown wash.
				36	S-16	SS	5	5		18	Take S-19 from 50ft to 52ft. Bottom of boring at 52ft. Pull up casing, backfill with soil cuttings and bentonite to 20.5ft below grade. Install groundwater observation well. Refer to Appendix A for Groundwater Observation Well Construction Log.
				37				6			
				38				7			
				39							
				40				12			
		Brown coarse to fine SAND, trace Silt, trace fine Gravel (wet) [SP-SM] [Class 3a]		41	S-17	SS	17	12		40	
				42				15			
				43							
				44							
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]		45				9			
				46	S-18	SS	4	10		32	
				47				10			
			48								
			49								
	Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]		50				14				
			51	S-19	SS	6	11		38		
			52				10				
		End of Boring at 52ft.		53							
				54							

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project 145 Wolcott Street			Project No. 170562204		
Location Brooklyn, New York			Elevation and Datum Approx. el. 10.0 (NAVD88)		
Drilling Company Craig Geotechnical Drilling			Date Started 2/2/2024		Date Finished 2/2/2024
Drilling Equipment CME75			Completion Depth 52.0 ft		Rock Depth Not Encountered
Size and Type of Bit 3-7/8in Tricone Roller Bit			Number of Samples Disturbed 15		Undisturbed 0 Core 0
Casing Diameter (in) 4.0		Casing Depth (ft) 15.0	Water Level (ft.) First $\nabla$ N/A		Completion $\nabla$ N/A 24 HR. $\nabla$ N/A
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30	Drilling Foreman Mike Gorski		
Sampler 2in OD Split Spoon			Field Engineer David Mcveety		
Casing Hammer Automatic	Weight (lbs) 140	Drop (in) 30			

Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recor. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft) 10 20 30 40		
	+10.0	Asphalt Pavement		0						02/2/2024 Drill through 2ft of asphalt and subbase.	
	+8.0	Brown coarse to fine SAND, some fine Gravel, trace Silt (moist) [FILL] [Class 7]		2						Take S-1 from 2ft to 4ft.	
		Red gravelly coarse to fine Sand, trace Silt, brick fragments (moist) [FILL] [Class 7]		3	S-1	SS	8	6	5	18	Drive casing to 4ft. Drill to 4ft. Smooth drilling, gray wash. Take S-2 from 4ft to 6ft.
		Brown coarse to fine SAND, some fine Gravel, trace Clay, trace Silt (moist) [FILL] [Class 7]		4			4	3	5		
		Brown coarse to fine SAND, some fine Gravel, trace Clay, trace Silt (moist) [FILL] [Class 7]		5	S-2	SS	4	3	2	10	Take S-3 from 6ft to 8ft.
		Brown fine SAND, trace Clay, trace Silt (wet) [FILL] [Class 7]		6			2	1	1		
		Dark brown coarse to fine SAND, trace Clay, trace Silt (wet) [FILL] [Class 7]		7	S-3	SS	0	2	1	5	Drive casing to 8ft. Drill to 8ft. Smooth drilling, brown wash. Take S-4 from 8ft to 10ft.
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3b]		8	S-4A	SS	17	4	2	10	Take S-5 from 10ft to 12ft.
	0.0			9	S-4B	SS	7	9	8		
				10			6	5	6		
				11	S-5	SS	16	9	8	28	Drive casing to 15ft. Drill to 15ft. Smooth drilling, brown wash.
				12			6	7	7		
				13			9	5	6	20	Take S-6 from 15ft to 17ft.
				14	S-6	SS	6	9	6		
				15			6	9	9		
				16			6	9	7		
				17			6	9	9	30	Drill to 20ft. Smooth drilling, brown wash.
				18	S-7	SS	6	9	7		Take S-7 from 20ft to 22ft.
				19			6	9	7		
				20			6	9	7		
				21			6	9	7		
				22			6	9	7		Drill to 25ft. Smooth drilling, brown wash.
				23			6	9	7		
				24			6	9	7		

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project		Project No.											
145 Wolcott Street		170562204											
Location		Elevation and Datum											
Brooklyn, New York		Approx. el. 10.0 (NAVD88)											
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)			
					Number	Type	Recov. (in)	Penetr-resist BL/6in	N60-Value* (Blows/ft) 10 20 30 40				
	-14.0	Dark brown coarse to fine SAND, some fine Gravel, trace Silt (wet) [SP-SM] [Class 3b]		24									
					25							Take S-8 from 25ft to 27ft.	
					26	S-8	SS	9	9		8	28	Drill to 30ft. Smooth drilling, brown wash.
					27						10		
					28								
					29								Take S-9 from 30ft to 32ft.
					30								
					31	S-9	SS	9	6		6	20	
					32						6		Take S-10 from 32ft to 34ft.
					33	S-10	SS	6	7		7	23	Drill to 35ft. Smooth drilling, brown wash.
					34						5		
					35								Take S-11 from 35ft to 37ft.
					36	S-11	SS	7	4		4	13	
					37						4		Take S-12 from 37ft to 39ft.
					38	S-12	SS	11	5		5	17	
			39						5		Drill to 40ft. Smooth drilling, brown wash.		
			40										
			41	S-13	SS	9	6		6	20			
			42						8		Drill to 45ft. Smooth drilling, brown wash.		
			43										
			44								Take S-13 from 40ft to 42ft.		
			45										
			46	S-14	SS	8	10		10	33			
			47						8		Drill to 50ft. Smooth drilling, brown wash.		
			48										
			49								Take S-14 from 45ft to 47ft.		
			50										
			51	S-15	SS	10	10		11	35			
			52						10		Drill to 50ft. Smooth drilling, brown wash.		
			53										
			54										
			55										
	-42.0	End of Boring at 52ft.									Take S-15 from 50ft to 52ft. -#4 = 80.9% -#200 = 6.4%		
											Bottom of boring at 52ft. Pull up casing, backfill with cuttings and bentonite plug, apply asphalt cold patch.		

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project 145 Wolcott Street				Project No. 170562204			
Location Brooklyn, New York				Elevation and Datum Approx. el. 10.0 (NAVD88)			
Drilling Company Craig Geotechnical Drilling				Date Started 2/1/2024		Date Finished 2/1/2024	
Drilling Equipment CME75				Completion Depth 100.0 ft		Rock Depth Not Encountered	
Size and Type of Bit 3-7/8in Tricone Roller Bit				Number of Samples Disturbed 28		Undisturbed 0 Core 0	
Casing Diameter (in) 4.0		Casing Depth (ft) 30.0		Water Level (ft.) First $\nabla$ N/A		Completion $\nabla$ N/A 24 HR. $\nabla$ N/A	
Casing Hammer Automatic		Weight (lbs) 140		Drop (in) 30		Drilling Foreman Mike Gorski	
Sampler 2in OD Split Spoon				Field Engineer David Mcveety			
Sampler Hammer Automatic		Weight (lbs) 140		Drop (in) 30			

Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40
	+10.0	Asphalt		0					02/01/2024	
	+9.5	Dark gray coarse to fine SAND, some fine Gravel, asphalt fragments (dry) [FILL] [Class 7]		0.0	S-1	SS	12	16	46	104
		Red coarse to fine SAND, some fine Gravel, brick fragments (dry) [FILL] [Class 7]		1.0	S-2	SS	6	10	12	38
		Black wood fragment (moist) [FILL] [Class 7]		3.0					3	
		Tan coarse to fine SAND, some fine Gravel, trace Clay, trace Silt (moist) [FILL] [Class 7]		5.0	S-3	SS	1	4	4	13
				6.0					3	
	+1.5	Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3b]		7.0	S-4	SS	6	3	4	12
				8.0					6	
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3b]		9.0	S-5	SS	8	7	6	22
				10.0					6	
				11.0	S-6	SS	17	6	6	20
				12.0					6	
				13.0						
				14.0						
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 6]		15.0					1	
				16.0	S-7	SS	9	2	1	5
				17.0					4	
		Brown coarse to fine SAND, some Silt, some fine Gravel (wet) [SM] [Class 6]		18.0	S-8	SS	5	WOH	1	2
		No recovery		19.0				WOH		
				20.0	S-9	SS	0	1	1	3
				21.0					1	
		Olive coarse to fine SAND, some fine Gravel, trace Clay (wet) [SP-SC] [Class 6]		22.0	S-10	SS	8	3	3	10
				23.0					3	
		No recovery		24.0					5	

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project		Project No.									
145 Wolcott Street		170562204									
Location		Elevation and Datum									
Brooklyn, New York		Approx. el. 10.0 (NAVD88)									
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40	
	-14.0										
			Olive brown coarse to fine SAND, some fine Gravel, trace Clay (wet) [SP-SC] [Class 3b]		24	S-11	SS	0	6	18	Take S-12 from 25ft to 27ft.
					25				9		
					26	S-12	SS	12	8	27	
					27				8		Drive casing to 30ft. Drill to 30ft. Brown wash, smooth drilling.
					28				9		
					29						
			Dark brown coarse to fine SAND, some fine Gravel, trace Silt (wet) [SP-SM] [Class 3b]		30				5		Take S-13 from 30ft to 32ft.
					31	S-13	SS	10	5	17	
					32				5		Drill to 35ft. Brown wash, smooth drilling.
					33						
					34						
			Dark brown coarse to fine SAND, some fine Gravel, trace Silt (wet) [SP-SM] [Class 3b]		35				4		Take S-14 from 35ft to 37ft.
					36	S-14	SS	9	4	13	
					37				4		Take S-15 from 37ft to 39ft.
			Dark brown coarse to fine SAND, some fine Gravel, trace Silt (wet) [SP-SM] [Class 3b]		38	S-15	SS	1	5	17	
					39				5		Drill to 40ft. Brown wash, smooth drilling. Take S-16 from 40ft to 42ft.
			Dark brown coarse to fine SAND, trace Silt, trace fine Gravel (wet) [SP-SM] [Class 3b]		40				5		
				41	S-16	SS	10	5	17		
				42				6		Drill to 45ft. Brown wash, smooth drilling.	
				43							
				44							
		Dark brown coarse to fine SAND, some Silt, trace fine Gravel (wet) [SM] [Class 3a]		45				10		Take S-17 from 45ft to 47ft.	
				46	S-17	SS	9	11	35		
				47				9		Drill to 50ft. Brown wash, smooth drilling.	
				48							
				49							
		Dark brown coarse to fine SAND, some Silt, trace fine Gravel (wet) [SM] [Class 3b]		50				7		Take S-18 from 50ft to 52ft.	
				51	S-18	SS	9	10	27		
				52				9		Drill to 55ft. Brown wash, smooth drilling.	
				53							
				54							

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project		Project No.									
145 Wolcott Street		170562204									
Location		Elevation and Datum									
Brooklyn, New York		Approx. el. 10.0 (NAVD88)									
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40	
	-44.0										
		Dark brown coarse to fine SAND, some Silt, trace fine Gravel (wet) [SM] [Class 3b]		54							
				55						Take S-19 from 55ft to 57ft.	
				56	S-19	SS	10	8	27		
				57				7		Drill to 60ft. Brown wash, smooth drilling.	
				58							
				59							
				60						Take S-20 from 60ft to 62ft.	
			Dark brown coarse to fine SAND, some Silt, trace fine Gravel (wet) [SM] [Class 3a]		61	S-20	SS	10	50	145	
				62				37		Drill to 65ft. Brown wash, smooth drilling.	
				63				21			
				64							
				65						Take S-21 from 65ft to 67ft. #4 = 97.9% #200 = 23.4%	
			Dark brown coarse to fine SAND, some Silt, trace fine Gravel (wet) [SM] [Class 3a]		66	S-21	SS	10	10	32	
				67				9		Drill to 70ft. Brown wash, smooth drilling.	
				68							
				69							
				70						Take S-22 from 70ft to 72ft.	
			Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3b]		71	S-22	SS	11	6	22	
				72				7		Drill to 75ft. Brown wash, smooth drilling.	
				73							
				74							
				75						Take S-23 from 75ft to 77ft.	
			Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3b]		76	S-23	SS	7	7	23	
			77					9	Drill to 80ft. Brown wash, smooth drilling.		
			78								
			79								
			80						Take S-24 from 80ft to 82ft.		
		Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3a]		81	S-24	SS	12	9	33		
			82					13	Drill to 85ft. Brown wash, smooth drilling.		
			83								
			84								

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.

Project		145 Wolcott Street		Project No.		170562204					
Location		Brooklyn, New York		Elevation and Datum		Approx. el. 10.0 (NAVD88)					
Material Symbol	Elev. (ft)	Sample Description	PID (ppm)	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)		
					Number	Type	Recov. (in)	Penetr-resist BL/6in		N60-Value* (Blows/ft) 10 20 30 40	
	-74.0	Brown fine SAND, trace Silt (wet) [SP-SM] [Class 3b]		84							
				85							
				86	S-25	SS	12	9	6	25	Take S-25 from 85ft to 87ft.
				87					12		Drill to 90ft. Brown wash, smooth drilling.
				88							
				89							
				90							
				91	S-26	SS	12	11	9	33	Take S-26 from 90ft to 92ft, naphthalene-like odor.
				92					14		Drill to 95ft. Brown wash, smooth drilling.
				93							
			94								
			95								
			96	S-27	SS	9	9	11	33	Take S-27 from 95ft to 97ft.	
			97					9		Drill to 98ft. Brown wash, smooth drilling.	
			98								
			99	S-28	SS	12	15	33	58	Take S-28 from 98ft to 100ft, naphthalene-like odor.	
			100					20		Bottom of boring. Pull up casing, backfill with cuttings and bentonite plug, apply asphalt cold patch.	
			101					18			
			102								
			103								
			104								
			105								
			106								
			107								
			108								
			109								
			110								
			111								
			112								
			113								
			114								
	-90.0	End of Boring at 100ft.									

\*N60 values obtained using a Hammer Energy Ratio of 100% corresponding to a correction factor of 1.67.





September 29, 2023

Attn: Kevin Craig of Craig Test Boring Co. Inc.  
PO Box 427; Mays Landing, NJ 08330

Re: SPT Energy Calibration  
Mays Landing, NJ

GRL Job No. 2023PA00056-1R

Dear Mr. Craig:

This report summarizes the results from the Standard Penetration Test (SPT) energy measurements performed on four (4) drill rigs. The drills rigs tested included CME 75 (Rig 30, SN 410597), CME 75 (Rig 18, SN 404887), CME 75 (Rig 5, SN 396967), and CME 75 (Rig 38, SN 375017). The field work associated with the energy measurements summarized in this report was performed on September 15, 2023, and the data was recorded during sampling events from two holes (BH 1 and BH 2), which were specifically drilled in the yard of Craig Test Boring Co. Inc., located in Mays Landing, NJ.

The purpose in collecting the SPT energy measurements was to compute the energy transfer to the drill rods and the energy transfer ratio for the SPT hammers. To meet this objective, a model 8G Pile Driving Analyzer (PDA) was used to acquire and process the dynamic test data. Additional information regarding the testing equipment and analytical procedures is provided in Appendix A.

The energy measurements were performed in general accordance with the procedures set forth in ASTM D4633-16, Standard Test Method for Energy Measurements for Dynamic Penetrometers. This ASTM standard suggests that the SPT N value should range between 10 and 50 blows per foot to limit the effect of extra potential energy due to the set per blow.

### ***Test Sequence***

An instrumented NWJ drill rod was used to acquire energy measurements during several SPT sampling events. This 2-foot-long instrumented section was placed between the SPT hammer and the top of the drill string. The measurement location on the instrumented NWJ rod section added an additional 9-in to the reported rod length. The rod length also included the 3.25-foot-long split-barrel sampler.

For the CME 75 (Rig 30, SN 410597), six sampling events were monitored in a single



borehole (BH 1) between sampling depths of 25 to 37 feet. For each SPT sampling event, the SPT split-spoon sampler was driven 24 inches while blows were recorded for each of the four 6-inch increments. The SPT N value for each sampling event was then calculated as the number of blows for the second and third sampling increments. The N values for six of the six sampling events were within the ASTM D4633 suggested range of 10 to 50. Including the instrumented section, drill rods, split spoon and adapter, the instrumented length ranged from 29.00 to 39.00 feet.

For the CME 75 (Rig 18, SN 404887), five sampling events were monitored in a single borehole (BH 1) between sampling depths of 37 to 49 feet. For each SPT sampling event, the SPT split-spoon sampler was driven 24 inches while blows were recorded for each of the four 6-inch increments. The SPT N value for each sampling event was then calculated as the number of blows for the second and third sampling increments. The SPT N value for each sampling event was then calculated as the number of blows for the second and third sampling increments. The N values for five of the six sampling events were within the ASTM D4633 suggested range of 10 to 50, while the other one event was below an N value of 10. Including the instrumented section, drill rods, split spoon and adapter, the instrumented length ranged from 41.00 to 51.00 feet.

For the CME 75 (Rig 5, SN 396967), five sampling events were monitored in a single borehole (BH 2) between sampling depths of 20 to 30 feet. For each SPT sampling event, the SPT split-spoon sampler was driven 24 inches while blows were recorded for each of the four 6-inch increments. The SPT N value for each sampling event was then calculated as the number of blows for the second and third sampling increments. The N values for five of the five sampling events were within the ASTM D4633 suggested range of 10 to 50. Including the instrumented section, drill rods, split spoon and adapter, the instrumented length ranged from 24.00 to 32.00 feet.

For the CME 75 (Rig 38, SN 375017), five sampling events were monitored in a single borehole between sampling depths of 30 to 40 feet. For each SPT sampling event, the SPT split-spoon sampler was driven 24 inches while blows were recorded for each of the four 6-inch increments. The SPT N value for each sampling event was then calculated as the number of blows for the second and third sampling increments. The N values for five of the five sampling events were within the ASTM D4633 suggested range of 10 to 50. Including the instrumented section, drill rods, split spoon and adapter, the instrumented length ranged from 34.00 to 42.00 feet.

### ***Energy Transfer Measurements***

Strain and acceleration measurements were made on the instrumented NWJ drill rod. The strain and acceleration signals were conditioned and converted to force and velocities by an 8G model Pile Driving Analyzer. The PDA interprets the measured dynamic data according to the Case Method equations. Force and velocity records were viewed graphically on the PDA screen during data acquisition to assess data quality and were then digitally stored.

The maximum energy transferred to the rod (EFV) was calculated by integrating both the force and velocity records over time as follows:

$$EFV = \int F(t)V(t)dt$$

Where:  $F(t)$  = the force at time  $t$   
 $V(t)$  = the velocity at time  $t$

The energy transfer ratio is computed by dividing the maximum transferred energy by the theoretical SPT hammer energy of 350 ft-lbs. (computed from the product of the hammer weight, assumed to be 140 lbs, and the fall height, assumed to be 2.5 ft). The SPT N values can then be corrected for a nominal 60% transfer efficiency,  $N_{60}$ , as follows:

$$N_{60} = (e_m / 60) N_m$$

Where:  $e_m$  = the measured energy transfer ratio (ETR)  
 $N_m$  = the measured SPT N value

### ***Conclusions***

Appendix B presents the average transferred energies and the energy transfer ratios for each sampling event calculated using the *EFV* equation. Average values of the hammer operating rate (BPM), maximum impact force (FMX), and maximum velocity (VMX) are also included along with the maximum, minimum, and standard deviation for each sampling event. The overall energy transfer ratio for all sampling events weighted by N-value is presented in Table 1 below for each calibrated drill rig.

Table 1. Summary of Average Energy Transfer and Energy Transfer Ratio

Drill Rig (Serial Number)	Samples Reported	Average Hammer Speed (blows/min)	Average Energy Transfer (ft-lbs)	Energy Transfer Ratio (%)
CME 75 <sup>(1)</sup> (Rig 30, SN: 410597)	6	51	340	97.2
CME 75 <sup>(1)</sup> (Rig 18, SN: 404887)	5	54	349	99.6
CME 75 <sup>(2)</sup> (Rig 18, SN: 404887)	6	54	348	99.5
CME 75 <sup>(1)</sup> (Rig 5, SN: 396967)	5	55	356	101.6
CME 75 <sup>(1)</sup> (Rig 38, SN: 375017)	5	51	351	100.3

Notes: (1) All data sets with N values within the ASTM recommended range of 10 to 50.

(2) Includes one data set with an N value lower than recommended minimum of 10.

We appreciate the opportunity to be of assistance to you. Please do not hesitate to contact us if you have any questions regarding this report, or if we may be of further service.

Sincerely,  
GRL Engineers, Inc.



Dennis K Kiptoo



Alex Ryberg  
Professional Engineer



<b>PROJECT</b> 145 Wolcott Street		<b>PROJECT NO.</b> 170562201	
<b>LOCATION</b> Brooklyn, New York		<b>ELEVATION AND DATUM</b> el. 8.8 (NAVD 88)	
<b>DRILLING AGENCY</b> Craig Geotechnical Drilling Co., Inc		<b>DATE STARTED</b> 7/27/2020	<b>DATE FINISHED</b> 7/27/2020
<b>DRILLING EQUIPMENT</b> CME 55		<b>FOREMAN</b> Nick Beehler	
<b>SIZE AND TYPE OF BIT</b> 3 7/8" Tricone Roller Bit		<b>INSPECTORS</b> Andrea Herrera	
<b>METHOD OF INSTALLATION</b> The boring was advanced to 62 feet below the existing ground surface using mud rotary drilling techniques. The hole was grouted to a depth of 25 feet below ground surface. The well was installed to 20 feet below the ground surface. The well is made of 10 feet screen and 10 feet riser. A flush-mount well cap was installed to seal the well.			
<b>METHOD OF WELL DEVELOPMENT</b> The bore hole was developed by bailing approximately three times the well volume and sealed with bentonite.			
<b>TYPE OF CASING</b> PVC	<b>DIAMETER</b> 2 inch	<b>TYPE OF BACKFILL MATERIAL</b> Soil Cuttings	
<b>TYPE OF SCREEN</b> PVC	<b>DIAMETER</b> 2 inch	<b>TYPE OF SEAL MATERIAL</b> Bentonite	
<b>BOREHOLE DIAMETER</b> 4 inch		<b>TYPE OF FILTER MATERIAL</b> Silica Sand	
<b>TOP OF CASING</b>	<b>ELEVATION (ft) <sup>(3)</sup></b> 8.8	<b>DEPTH (ft)</b> 0	
<b>TOP OF SEAL</b>	<b>ELEVATION (ft) <sup>(3)</sup></b> 3.8	<b>DEPTH (ft)</b> 5	
<b>TOP OF FILTER</b>	<b>ELEVATION (ft) <sup>(3)</sup></b> -0.2	<b>DEPTH (ft)</b> 9	
<b>TOP OF SCREEN</b>	<b>ELEVATION (ft) <sup>(3)</sup></b> -1.2	<b>DEPTH (ft)</b> 10	
<b>BOTTOM OF SCREEN</b>	<b>ELEVATION (ft) <sup>(3)</sup></b> -11.2	<b>DEPTH (ft)</b> 20	
<b>SCREEN LENGTH</b>		<b>LENGTH (ft)</b> 10	
<b>SLOT SIZE</b>	0.025 inch		
<b>GROUNDWATER ELEVATIONS</b>			
<b>ELEVATION</b>	<b>DATE</b>	<b>DEPTH TO WATER (ft) <sup>(3)</sup></b>	
1.0	7/29/2020	7.8	
1.1	7/30/2020	7.7	
1.1	7/30/2020	7.7	
1.0	7/31/2020	7.8	
1.0	8/3/2020	7.8	
<b>WELL DETAILS</b>		<b>SUMMARY SOIL CLASSIFICATION <sup>(1)</sup>, NOTES</b>	<b>DEPTH (FT) <sup>(2)</sup></b>
FILL			0.0
SAND			8.0
SILT			10.0
SAND			12.0
SAND			20.0
<b>Langan Engineering &amp; Environmental Services</b> 21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001			

<b>PROJECT</b> 145 Wolcott Street	<b>PROJECT NO.</b> 170562201	
<b>LOCATION</b> Brooklyn, New York	<b>ELEVATION AND DATUM</b> el. 13.3 (NAVD 88)	
<b>DRILLING AGENCY</b> Craig Geotechnical Drilling Co., Inc	<b>DATE STARTED</b> 7/30/2020	<b>DATE FINISHED</b> 7/31/2020
<b>DRILLING EQUIPMENT</b> CME 55	<b>FOREMAN</b> Nick Beehler	
<b>SIZE AND TYPE OF BIT</b> 3 7/8" Tricone Roller Bit	<b>INSPECTORS</b> Andrea Herrera	

**METHOD OF INSTALLATION**  
The boring was advanced to 102 feet below the existing ground surface using mud rotary drilling techniques. The hole was grouted to a depth of 25 feet below ground surface. The well was installed to 20 feet below the ground surface. The well is made of 10 feet screen and 10 feet riser. A flush-mount well cap was installed to seal the well.

**METHOD OF WELL DEVELOPMENT**  
The bore hole was developed by bailing approximately three times the well volume and sealed with bentonite.

<b>TYPE OF CASING</b> PVC	<b>DIAMETER</b> 2 inch	<b>TYPE OF BACKFILL MATERIAL</b> Soil Cuttings
<b>TYPE OF SCREEN</b> PVC	<b>DIAMETER</b> 2 inch	<b>TYPE OF SEAL MATERIAL</b> Bentonite
<b>BOREHOLE DIAMETER</b> 4 inch		<b>TYPE OF FILTER MATERIAL</b> Silica Sand

TOP OF CASING	ELEVATION (ft) <sup>(3)</sup>	DEPTH (ft)	WELL DETAILS	SUMMARY SOIL CLASSIFICATION <sup>(1)</sup> , NOTES	DEPTH (FT) <sup>(2)</sup>	
	13.3	0		<p>The diagram shows a vertical well casing with a flush-mounted seal at the top. Below the seal is a 2-inch PVC riser section filled with soil cuttings. At the bottom of the riser is a 2-inch PVC screen section. Below the screen is a layer of silica filter sand. The well is sealed with bentonite at the top and bottom. The diagram also shows the ground surface and the water table.</p>	ASPHALT & CONCRETE	0.0
TOP OF SEAL	ELEVATION (ft) <sup>(3)</sup> 8.3	DEPTH (ft) 5	Flush-Mounted Seal		FILL	2.0
TOP OF FILTER	ELEVATION (ft) <sup>(3)</sup> 4.3	DEPTH (ft) 9	Soil Cuttings			
TOP OF SCREEN	ELEVATION (ft) <sup>(3)</sup> 3.3	DEPTH (ft) 10	2" PVC Riser			
BOTTOM OF SCREEN	ELEVATION (ft) <sup>(3)</sup> -6.7	DEPTH (ft) 20	Bentonite Seal			
SCREEN LENGTH		LENGTH (ft) 10	Silica Filter Sand			
SLOT SIZE	0.025 inch		2" PVC Screen		SILTY SAND	10.0
<b>GROUNDWATER ELEVATIONS</b>						
ELEVATION	DATE	DEPTH TO WATER (ft) <sup>(3)</sup>				
0.6	7/31/2020	12.7				
1.5	7/31/2020	11.8				
0.8	8/3/2020	12.5				
0.7	8/3/2020	12.6				
					20.0	

<b>PROJECT</b> 145 Wolcott Street	<b>PROJECT NO.</b> 170562204	
<b>LOCATION</b> Brooklyn, New York	<b>ELEVATION AND DATUM</b> el. 11.7 (NAVD88)	
<b>DRILLING AGENCY</b> Craig Geotechnical Drilling Co., Inc	<b>DATE STARTED</b> 2/14/2024	<b>DATE FINISHED</b> 2/14/2024
<b>DRILLING EQUIPMENT</b> CME 75	<b>FOREMAN</b> Mike Gorski	
<b>SIZE AND TYPE OF BIT</b> 3 7/8" Tricone Roller Bit	<b>INSPECTOR</b> David McVeety	

**METHOD OF INSTALLATION**  
The boring was advanced to 52 feet below the existing ground surface using mud rotary drilling techniques. The boring was backfilled with cuttings to a depth of 20.5 feet below ground surface. The well was installed to 20 feet below the ground surface. The well is made of 10 feet screen and 10 feet riser. A flush-mount well cap was installed to seal the well.

**METHOD OF WELL DEVELOPMENT**  
The well was developed by pumping out water at a rate of about 3 gpm until the pumped water ran clear (approximately 15 minutes).

<b>TYPE OF CASING</b> PVC	<b>DIAMETER</b> 2 inch	<b>TYPE OF BACKFILL MATERIAL</b> Soil Cuttings
<b>TYPE OF SCREEN</b> PVC	<b>DIAMETER</b> 2 inch	<b>TYPE OF SEAL MATERIAL</b> Bentonite
<b>BOREHOLE DIAMETER</b> 4 inch	<b>TYPE OF FILTER MATERIAL</b> Silica Sand	

TOP OF CASING	ELEVATION (ft)	DEPTH (ft)	WELL DETAILS	SUMMARY SOIL CLASSIFICATION	DEPTH (FT)	
	11.4	0.3				
TOP OF SEAL	ELEVATION (ft)	DEPTH (ft)	<p>The diagram shows a vertical well casing with a diameter of 4 inches. At the top, there is a flush-mounted seal. Below the seal is a bentonite seal. The casing consists of a 2-inch PVC riser (10 feet long) and a 2-inch PVC screen (10 feet long). The screen is surrounded by silica filter sand. The well is installed in a borehole that is 4 inches in diameter. The casing is backfilled with soil cuttings. The well is installed to a depth of 20 feet below the ground surface.</p>	FILL	0.0	
	10.4	1.3				
TOP OF FILTER	ELEVATION (ft)	DEPTH (ft)				
	8.4	3.3				
TOP OF SCREEN	ELEVATION (ft)	DEPTH (ft)				
	1.4	10.3				
BOTTOM OF SCREEN	ELEVATION (ft)	DEPTH (ft)				
	-8.6	20.3				
SCREEN LENGTH	LENGTH (ft)					
	10					
SLOT SIZE	0.025 inch					
<b>GROUNDWATER ELEVATIONS</b>						
ELEVATION	DATE	DEPTH TO WATER (ft)				
1.4	2/14/2024	10.3				
ELEVATION	DATE	DEPTH TO WATER (ft)				
1.1	2/15/2024	10.6				
ELEVATION	DATE	DEPTH TO WATER (ft)				
0.9	2/16/2024	10.8				
ELEVATION	DATE	DEPTH TO WATER (ft)				
0.9	2/22/2024	10.8				
ELEVATION	DATE	DEPTH TO WATER (ft)				
1.0	2/26/2024	10.7				

<b>PROJECT</b> 145 Wolcott Street	<b>PROJECT NO.</b> 170562204	
<b>LOCATION</b> Brooklyn, New York	<b>ELEVATION AND DATUM</b> el. 10.7 (NAVD88)	
<b>DRILLING AGENCY</b> Craig Geotechnical Drilling Co., Inc	<b>DATE STARTED</b> 2/12/2024	<b>DATE FINISHED</b> 2/19/2024
<b>DRILLING EQUIPMENT</b> CME 75	<b>FOREMAN</b> Mike Gorski	
<b>SIZE AND TYPE OF BIT</b> 3 7/8" Tricone Roller Bit	<b>INSPECTORS</b> David McVeety	

**METHOD OF INSTALLATION**  
The boring was advanced to 52 feet below the existing ground surface using mud rotary drilling techniques. The boring was backfilled with cuttings to a depth of 20.5 feet below ground surface. The well was installed to 20 feet below the ground surface. The well is made of 10 feet screen and 10 feet riser. A flush-mount well cap was installed to seal the well.

**METHOD OF WELL DEVELOPMENT**  
The well was developed by manually bailing more than three times the well volume.

<b>TYPE OF CASING</b> PVC	<b>DIAMETER</b> 2 inch	<b>TYPE OF BACKFILL MATERIAL</b> Soil Cuttings
<b>TYPE OF SCREEN</b> PVC	<b>DIAMETER</b> 2 inch	<b>TYPE OF SEAL MATERIAL</b> Bentonite
<b>BOREHOLE DIAMETER</b> 4 inch	<b>TYPE OF FILTER MATERIAL</b> Silica Sand	

TOP OF CASING	ELEVATION (ft)	DEPTH (ft)	WELL DETAILS	SUMMARY SOIL CLASSIFICATION	DEPTH (FT)										
TOP OF SEAL	10.4	0.3				<p>The diagram shows a vertical cross-section of the well. From top to bottom: a Bentonite Seal (0.3 ft depth), a Flush-Mounted Seal (0.4 ft depth), a 2" PVC Riser (10.3 ft length), and a 2" PVC Screen (10 ft length). The screen is located between elevations 0.4 and -9.6. Below the screen is Silica Filter Sand, and below that is Clay and Silt. The well is surrounded by Fill soil.</p>	FILL	0.0							
TOP OF SEAL	9.4	1.3	<p>The diagram shows a vertical cross-section of the well. From top to bottom: a Bentonite Seal (0.3 ft depth), a Flush-Mounted Seal (0.4 ft depth), a 2" PVC Riser (10.3 ft length), and a 2" PVC Screen (10 ft length). The screen is located between elevations 0.4 and -9.6. Below the screen is Silica Filter Sand, and below that is Clay and Silt. The well is surrounded by Fill soil.</p>	FILL	9.0										
TOP OF FILTER	5.4	5.3			<p>The diagram shows a vertical cross-section of the well. From top to bottom: a Bentonite Seal (0.3 ft depth), a Flush-Mounted Seal (0.4 ft depth), a 2" PVC Riser (10.3 ft length), and a 2" PVC Screen (10 ft length). The screen is located between elevations 0.4 and -9.6. Below the screen is Silica Filter Sand, and below that is Clay and Silt. The well is surrounded by Fill soil.</p>			SAND	16.0						
TOP OF SCREEN	0.4	10.3							<p>The diagram shows a vertical cross-section of the well. From top to bottom: a Bentonite Seal (0.3 ft depth), a Flush-Mounted Seal (0.4 ft depth), a 2" PVC Riser (10.3 ft length), and a 2" PVC Screen (10 ft length). The screen is located between elevations 0.4 and -9.6. Below the screen is Silica Filter Sand, and below that is Clay and Silt. The well is surrounded by Fill soil.</p>	CLAY AND SILT					
BOTTOM OF SCREEN	-9.6	20.3									<p>The diagram shows a vertical cross-section of the well. From top to bottom: a Bentonite Seal (0.3 ft depth), a Flush-Mounted Seal (0.4 ft depth), a 2" PVC Riser (10.3 ft length), and a 2" PVC Screen (10 ft length). The screen is located between elevations 0.4 and -9.6. Below the screen is Silica Filter Sand, and below that is Clay and Silt. The well is surrounded by Fill soil.</p>	CLAY AND SILT			
SCREEN LENGTH		10											<p>The diagram shows a vertical cross-section of the well. From top to bottom: a Bentonite Seal (0.3 ft depth), a Flush-Mounted Seal (0.4 ft depth), a 2" PVC Riser (10.3 ft length), and a 2" PVC Screen (10 ft length). The screen is located between elevations 0.4 and -9.6. Below the screen is Silica Filter Sand, and below that is Clay and Silt. The well is surrounded by Fill soil.</p>	CLAY AND SILT	
SLOT SIZE	0.025 inch														<p>The diagram shows a vertical cross-section of the well. From top to bottom: a Bentonite Seal (0.3 ft depth), a Flush-Mounted Seal (0.4 ft depth), a 2" PVC Riser (10.3 ft length), and a 2" PVC Screen (10 ft length). The screen is located between elevations 0.4 and -9.6. Below the screen is Silica Filter Sand, and below that is Clay and Silt. The well is surrounded by Fill soil.</p>
<b>GROUNDWATER ELEVATIONS</b>			<p>The diagram shows a vertical cross-section of the well. From top to bottom: a Bentonite Seal (0.3 ft depth), a Flush-Mounted Seal (0.4 ft depth), a 2" PVC Riser (10.3 ft length), and a 2" PVC Screen (10 ft length). The screen is located between elevations 0.4 and -9.6. Below the screen is Silica Filter Sand, and below that is Clay and Silt. The well is surrounded by Fill soil.</p>	CLAY AND SILT											
ELEVATION	DATE	DEPTH TO WATER (ft)			<p>The diagram shows a vertical cross-section of the well. From top to bottom: a Bentonite Seal (0.3 ft depth), a Flush-Mounted Seal (0.4 ft depth), a 2" PVC Riser (10.3 ft length), and a 2" PVC Screen (10 ft length). The screen is located between elevations 0.4 and -9.6. Below the screen is Silica Filter Sand, and below that is Clay and Silt. The well is surrounded by Fill soil.</p>	CLAY AND SILT									
1.9	2/19/2024	8.8					<p>The diagram shows a vertical cross-section of the well. From top to bottom: a Bentonite Seal (0.3 ft depth), a Flush-Mounted Seal (0.4 ft depth), a 2" PVC Riser (10.3 ft length), and a 2" PVC Screen (10 ft length). The screen is located between elevations 0.4 and -9.6. Below the screen is Silica Filter Sand, and below that is Clay and Silt. The well is surrounded by Fill soil.</p>	CLAY AND SILT							
2.2	2/21/2024	8.5							<p>The diagram shows a vertical cross-section of the well. From top to bottom: a Bentonite Seal (0.3 ft depth), a Flush-Mounted Seal (0.4 ft depth), a 2" PVC Riser (10.3 ft length), and a 2" PVC Screen (10 ft length). The screen is located between elevations 0.4 and -9.6. Below the screen is Silica Filter Sand, and below that is Clay and Silt. The well is surrounded by Fill soil.</p>	CLAY AND SILT					
2.4	2/22/2024	8.3									<p>The diagram shows a vertical cross-section of the well. From top to bottom: a Bentonite Seal (0.3 ft depth), a Flush-Mounted Seal (0.4 ft depth), a 2" PVC Riser (10.3 ft length), and a 2" PVC Screen (10 ft length). The screen is located between elevations 0.4 and -9.6. Below the screen is Silica Filter Sand, and below that is Clay and Silt. The well is surrounded by Fill soil.</p>	CLAY AND SILT			
ELEVATION	DATE	DEPTH TO WATER (ft)	<p>The diagram shows a vertical cross-section of the well. From top to bottom: a Bentonite Seal (0.3 ft depth), a Flush-Mounted Seal (0.4 ft depth), a 2" PVC Riser (10.3 ft length), and a 2" PVC Screen (10 ft length). The screen is located between elevations 0.4 and -9.6. Below the screen is Silica Filter Sand, and below that is Clay and Silt. The well is surrounded by Fill soil.</p>	CLAY AND SILT											
2.1	2/26/2024	8.6													

<b>PROJECT</b> 145 Wolcott Street	<b>PROJECT NO.</b> 170562204	
<b>LOCATION</b> Brooklyn, New York	<b>ELEVATION AND DATUM</b> el. 10.2 (NAVD88)	
<b>DRILLING AGENCY</b> Craig Geotechnical Drilling Co., Inc	<b>DATE STARTED</b> 1/31/2024	<b>DATE FINISHED</b> 2/7/2024
<b>DRILLING EQUIPMENT</b> CME 75	<b>FOREMAN</b> Mike Gorski	
<b>SIZE AND TYPE OF BIT</b> 3 7/8" Tricone Roller Bit	<b>INSPECTORS</b> David McVeety	

**METHOD OF INSTALLATION**  
The boring was advanced to 52 feet below the existing ground surface using mud rotary drilling techniques. The boring was backfilled with cuttings to a depth of 20.5 feet below ground surface. The well was installed to 20 feet below the ground surface. The well is made of 10 feet screen and 10 feet riser. A flush-mount well cap was installed to seal the well.

**METHOD OF WELL DEVELOPMENT**  
The well was developed by pumping out water at a rate of about 3 gpm until the pumped water ran clear (approximately 15 minutes).

<b>TYPE OF CASING</b> PVC	<b>DIAMETER</b> 2 inch	<b>TYPE OF BACKFILL MATERIAL</b> Soil Cuttings
<b>TYPE OF SCREEN</b> PVC	<b>DIAMETER</b> 2 inch	<b>TYPE OF SEAL MATERIAL</b> Bentonite
<b>BOREHOLE DIAMETER</b> 4 inch	<b>TYPE OF FILTER MATERIAL</b> Silica Sand	

TOP OF CASING	ELEVATION (ft)	DEPTH (ft)	WELL DETAILS	SUMMARY SOIL CLASSIFICATION	DEPTH (FT)
TOP OF SEAL	9.9	0.3			
TOP OF SEAL	8.9	1.3			
TOP OF FILTER	4.9	5.3			
TOP OF SCREEN	-0.1	10.3			
BOTTOM OF SCREEN	-10.1	20.3			
SCREEN LENGTH		10			
SLOT SIZE	0.025 inch				
GROUNDWATER ELEVATIONS			<p>SAND</p>	5.0	
ELEVATION	DATE	DEPTH TO WATER (ft) <sup>(3)</sup>			
1.4	2/7/2024	8.8			
1.4	2/8/2024	8.8			
1.2	2/16/2024	9.0			
1.1	2/21/2024	9.1			
1.1	2/26/2024	9.1			



# APPENDIX B

(2024 SCPT RESULTS)

**PRESENTATION OF SITE INVESTIGATION RESULTS**

**145 Wolcott Street  
Brooklyn NY**

*Prepared for:*  
**Langan**



*Prepared by:*

**Craig Geotechnical Drilling Co., Inc.  
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**Tel: 609-625-4862  
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## Introduction

The enclosed report presents the results of piezocone penetration testing (CPTu or CPT) program carried out at 145 Wolcott St, Brooklyn NY. The site investigation was conducted by Craig Geotechnical Drilling Co., Inc. under contract to Langan.

The CPT program was performed to evaluate the subsurface soil conditions. CPT sounding locations were selected and numbered under the supervision of Langan personnel.

## Project Information

Project	
Client:	Langan
Project:	145 Wolcott St, Brooklyn NY
Job Number:	235276
Investigation Date:	2/6/24 – 2/7/24

Rig Description	Deployment System	Test Type
CPT Truck Rig	20 Ton Truck (Twin Cylinders)	CPT & SCPT

Cone Penetration Test (CPT)	
Depth Reference	Ground Surface at the time of the investigation.
Seismic Shear Wave Velocity	

## Limitations

This report has been prepared for the exclusive use of Langan for the project titles “145 Wolcott St, Brooklyn NY”. The report’s contents may not be relied upon by any other party without the express written permission of Craig Geotechnical Drilling Co., Inc.. CGD has provided site investigation services, prepared the factual data reporting, and provided geotechnical parameter calculations consistent with current best practices. No other warranty, expressed or implied, is made.

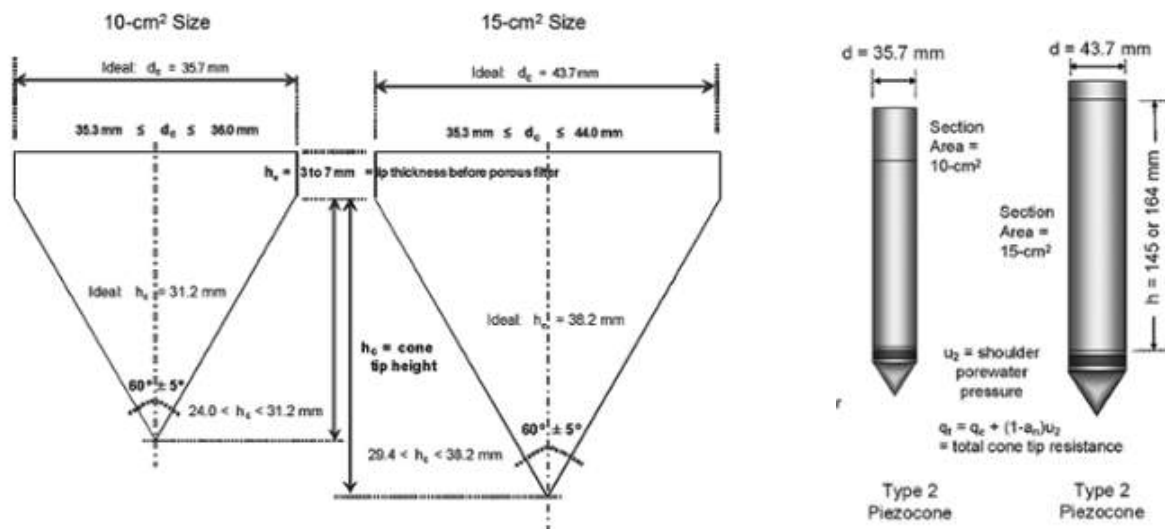
The information presented in the report document and the accompanying data set pertain to the specific project, site conditions and objectives described to Craig Geotechnical Drilling by the client. In order to properly understand the factual data, assumptions and calculations, reference must be made to the documents provided and their accompanying data sets, in their entirety.

## CPT Cones



Cone Penetration tests (CPTu) are conducted using an integrated electronic piezocone penetrometer and data acquisition system manufactured by Vertek of Randolph, VT 05060.

CPT cones are available in multiple sizes, but the 10 cm<sup>2</sup> cone and 15 cm<sup>2</sup> cone are the industry standard. Penetrometers are made of high strength steel and designed to resist abrasion by soil. The **15 cm<sup>2</sup> cone** was used on this project.



### Minimum and Maximum Cone Measurements

Cone Size (Cross-Sectional Area)	10 cm <sup>2</sup>			15 cm <sup>2</sup>		
	Min	Ideal	Max	Min	Ideal	Max
<b>Measurement</b>						
Cone Diameter ( $d_c$ )	35.3 mm	35.7 mm	36.0 mm	35.3 mm	43.7 mm	44.0 mm
Cone Tip Height ( $h_c$ )	24.0 mm	31.2 mm	31.2 mm	29.4 mm	38.2 mm	38.2 mm
Cone Tip Angle	55°	60°	65°	55°	60°	65°
Lip Thickness Before Porous Filter ( $h_e$ )	3 mm	N/A	7 mm	3 mm	N/A	7 mm
Friction Sleeve Diameter	35.7 mm	35.7 mm	36.05 mm	43.7 mm	43.7 mm	44.05 mm
Friction Sleeve Surface Area	147 cm <sup>2</sup>	150 cm <sup>2</sup>	153 cm <sup>2</sup>	220.5 cm <sup>2</sup>	225 cm <sup>2</sup>	229.5 cm <sup>2</sup>



### Cone Penetration Tests

Prior to the start of a CPTu sounding a suitable cone is selected, the cone and data acquisition system are powered on, the pore pressure system is saturated with silicone oil and the baseline readings are recorded with the cone hanging freely in a vertical position. The CPTu is conducted at a steady rate of 2 cm/s, within acceptable tolerances. Typically, one-meter length rods with an outer diameter of 15cm are added to advance the cone to the sounding termination depth. After cone retraction final baselines are recorded.

### Dissipation Tests

As a CPT cone is pushed into saturated subsurface soil, it creates a localized increase in pore pressure (denoted excess pore pressure,  $u_i$ ) as groundwater is pushed out of the way of the cone. In a pore pressure dissipation test, the downward movement of the cone is paused and the time it takes for the pore pressure to stabilize is measured. This stable pore pressure is called equilibrium pore pressure,  $u_o$ . This information allows the user to identify important hydrogeologic features:

The water table (or phreatic surface) depth is defined as the distance below the soil surface at which pore pressure is equal to atmospheric pressure. This can be roughly visualized as the level below which subsurface materials are fully saturated with groundwater.

Especially in fine-grained soils, estimating the water table can be more complex than simply detecting moisture, since surface tension draws groundwater upwards, creating negative pore pressures. This effect is called capillary rise.

Very low or negative pressures can be difficult to measure precisely with the piezocone, which is primarily designed to measure high pressures below the water table. In this case, the water table depth can be calculated by the following formula:

$$d_{water} = d_{cone} - h_w$$

$d_{water}$  = water table depth

$d_{cone}$  = depth of piezocone

$h_w$  = water head

The **water head**,  $h_w$ , is the height of the water above the cone, which can be calculated based on the pore pressure and the unit weight of water:

$$h_w = u/\gamma_w + z$$

$h_w$  = water head

$u_o$  = equilibrium pore pressure

$\gamma_w$  = unit weight of water

$z$  = distance, if any, between pressure sensor location and depth reference point on the piezocone



The rate of dissipation indicates the permeability or hydraulic conductivity of the soil – that is, the tendency of the soil to allow or resist the flow of groundwater.

A rapidly dissipating pore pressure indicates the presence of an aquifer (a porous region where groundwater tends to flow), while a slowly dissipating pore pressure indicates an aquitard (a compacted region that resists the flow of groundwater).

### Seismic CPTs

Seismic CPT or SCPT is a method of calculating the *small strain shear modulus* of the soil by measuring shear wave velocity through the soil. The small strain modulus is an important quantity for determining the *dynamic response* of soil during earthquakes, explosive detonations, vibrations from machinery, and during wave loading for offshore structures. The wave speeds and moduli derived from seismic CPT measurements aid in the determination of *soil liquefaction potential* and improve the interpretation of surface seismic surveys by *providing wave speed profiles as a function of depth*.

**SCPT Cone:** The SCPT cone is a CPT or CPTU cone that is equipped with one or more geophone sensors. These sensors measure the magnitude and arrival time of seismic shear and compression waves.

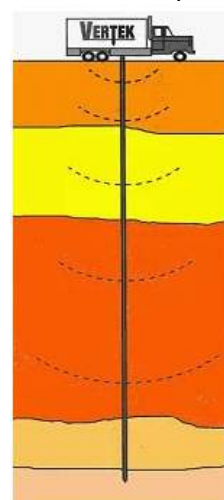
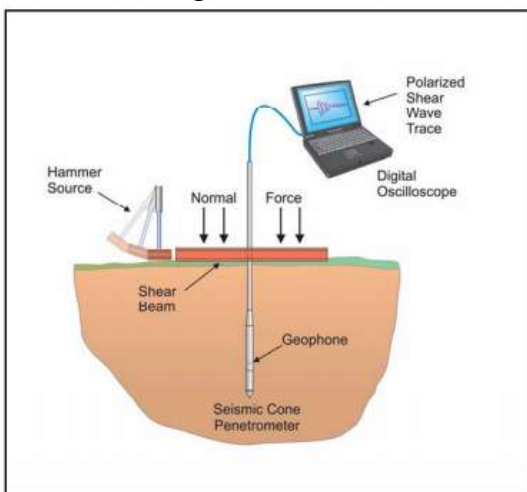
**Wave Generator:** Seismic shear waves are generated at the soil surface.

This method uses an electronic wave generator attached to the CPT rig and increases repeatability and reduces physical strain and testing time for the field team.

The CPT test must be paused briefly at the desired intervals to perform the wave generation and data collection.

**Data Acquisition System:** As seismic waves are registered by the geophone sensors, data is transferred from the cone to the soil surface by wires that run through the push rods. The SCPT data acquisition system logs this data and analyzes it to determine the speed of the waves based on their arrival time and the distance between the wave generator and the sensors.

Calculation of the interval velocities are performed by visually picking a common feature (e.g. the first characteristic peak, trough, or crossover) on all of the recorded wave sets and taking the difference in ray path divided by the time difference between subsequent features. Ray path is defined as the straight-line distance from the seismic source to the geophone, accounting for beam offset, source depth and geophone offset from the cone tip.



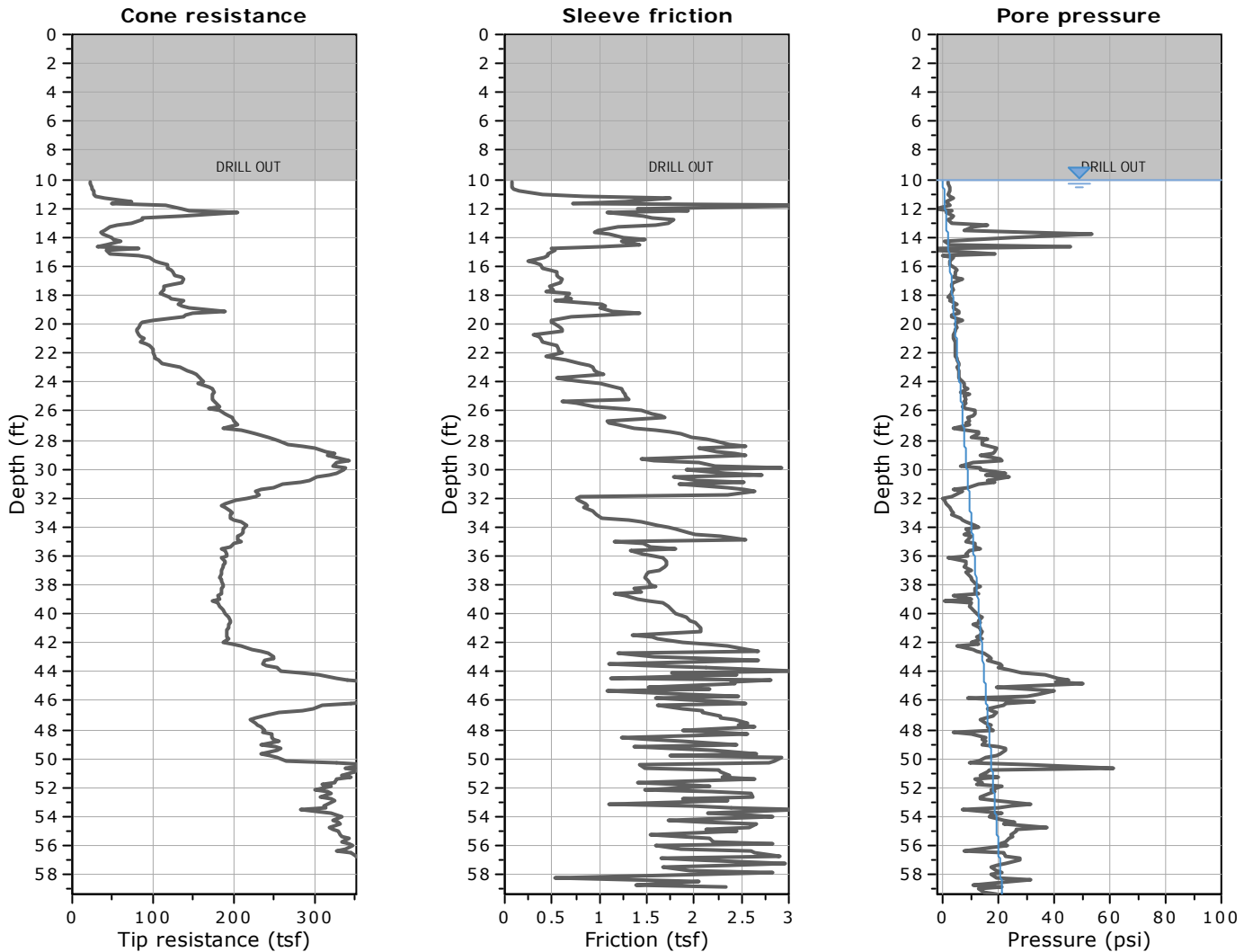
## Cone Penetration Test Summary and Cone Penetration Test Plots



Sounding ID	Depth (ft)	Seismic Tests	Pre-Drill Depth (ft)
CPT-1	59.35	17	10
CPT-2a	58.04	17	10
CPT-3	55.87	16	10
CPT-4	51.77	15	10
CPT-5	78.74	20	10
CPT-6	70.67	20	10
CPT-7	11.68		10
CPT-7a	35.01	8	10

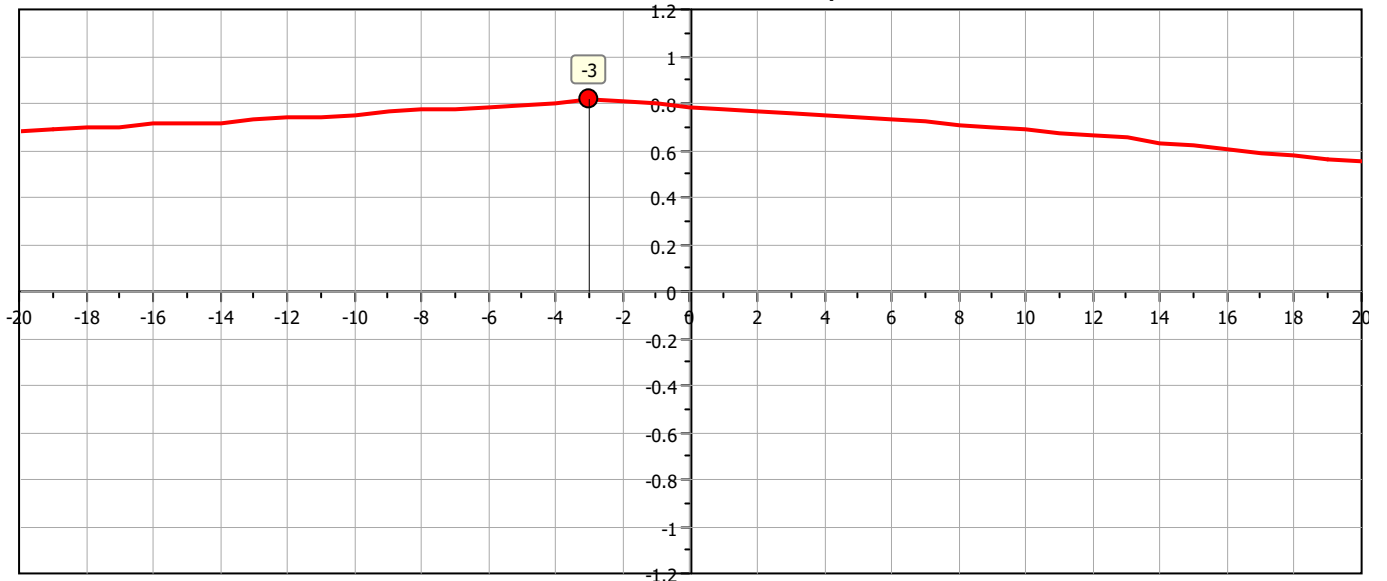






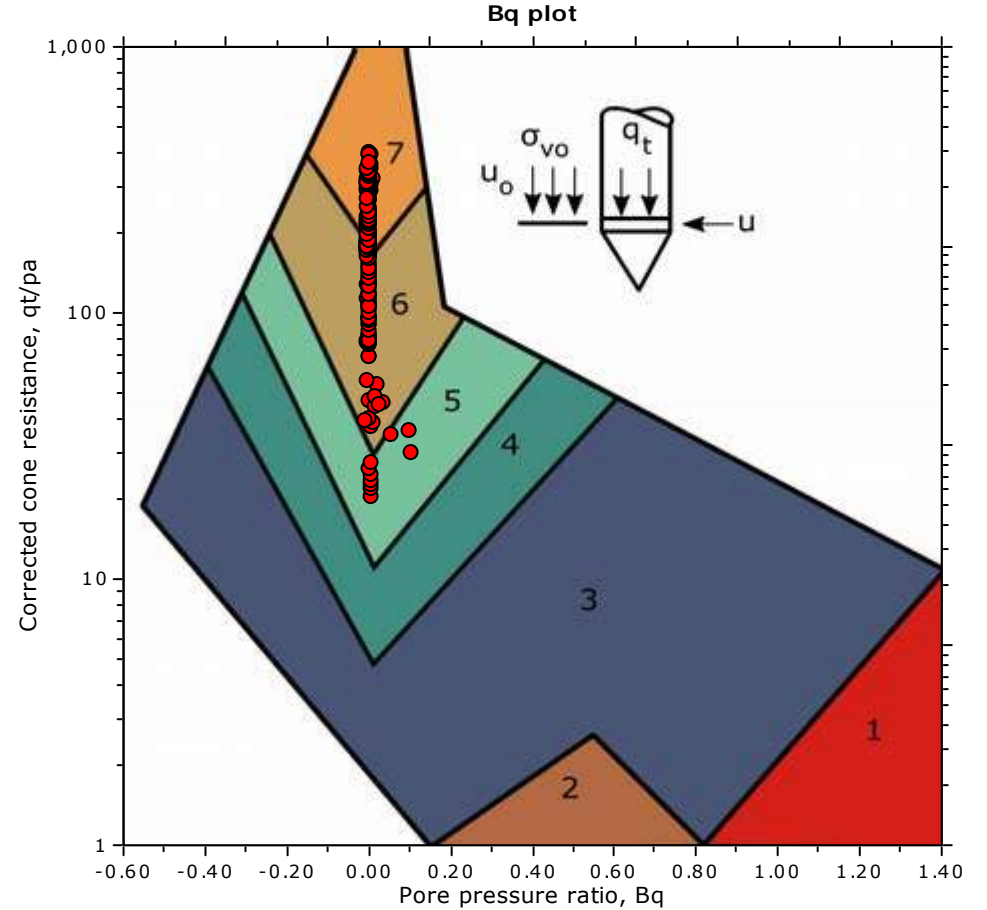
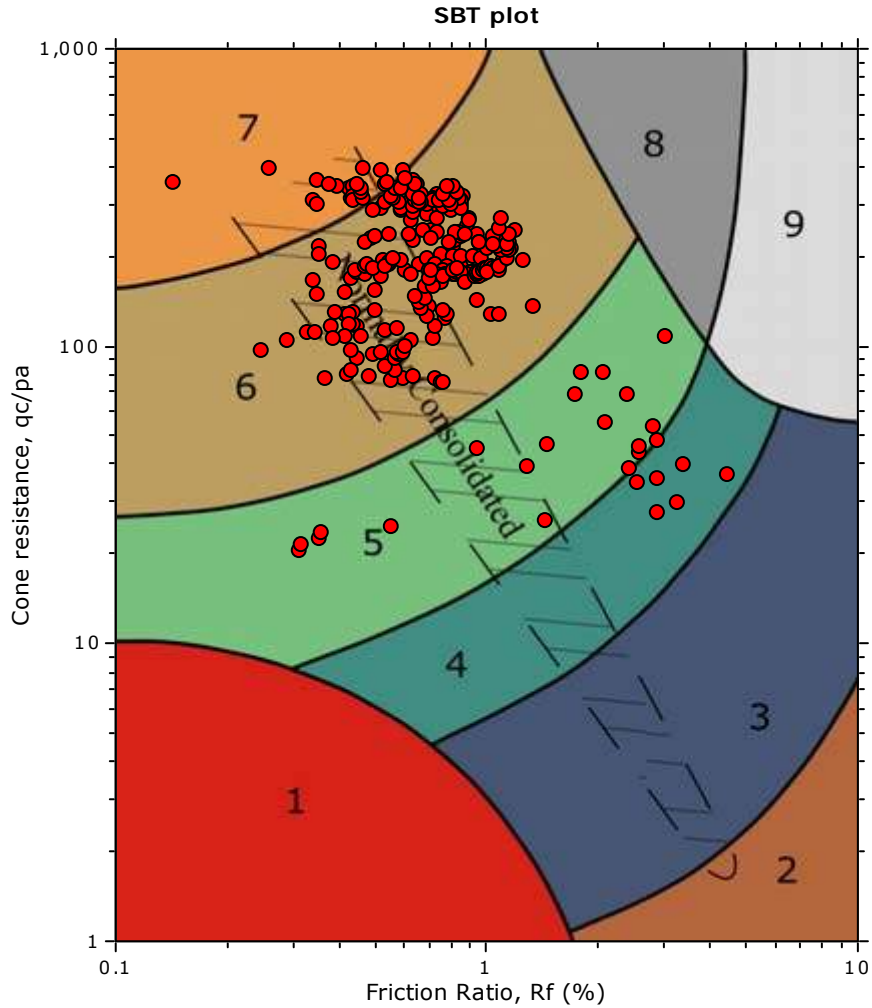
The plot below presents the cross correlation coefficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two successive CPT measurements).

Cross correlation between qc & fs





**SBT - Bq plots**

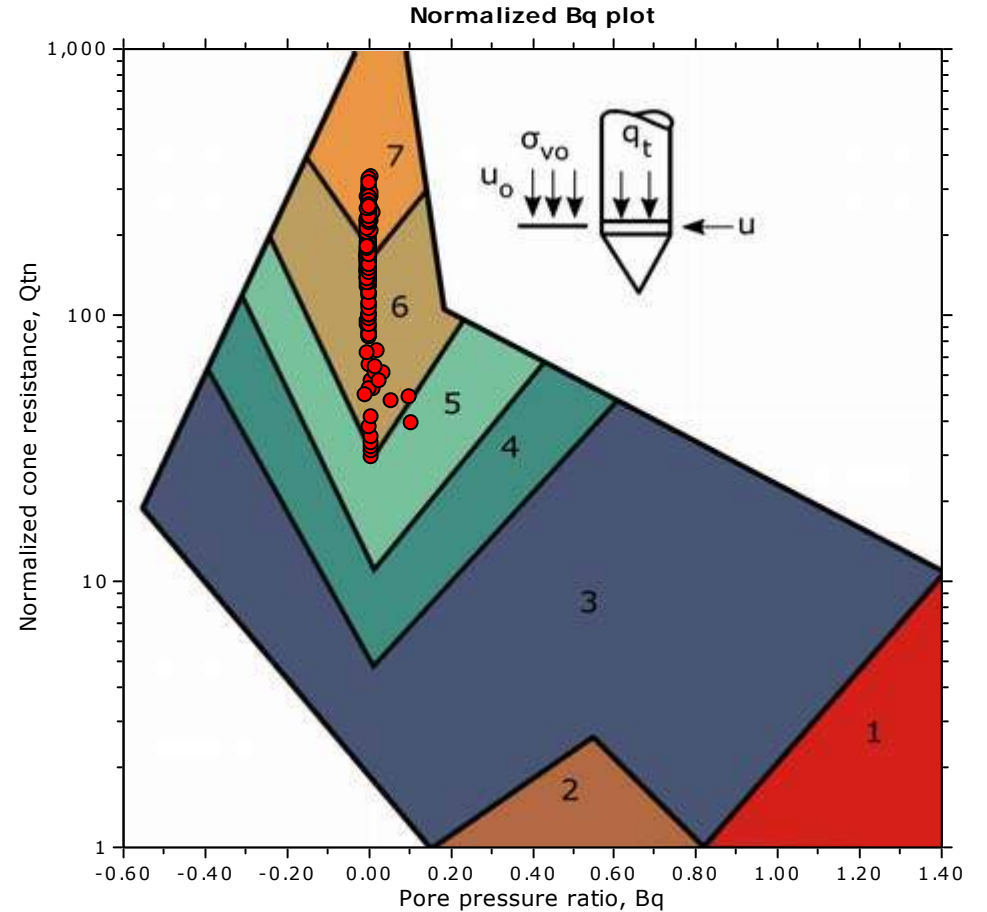
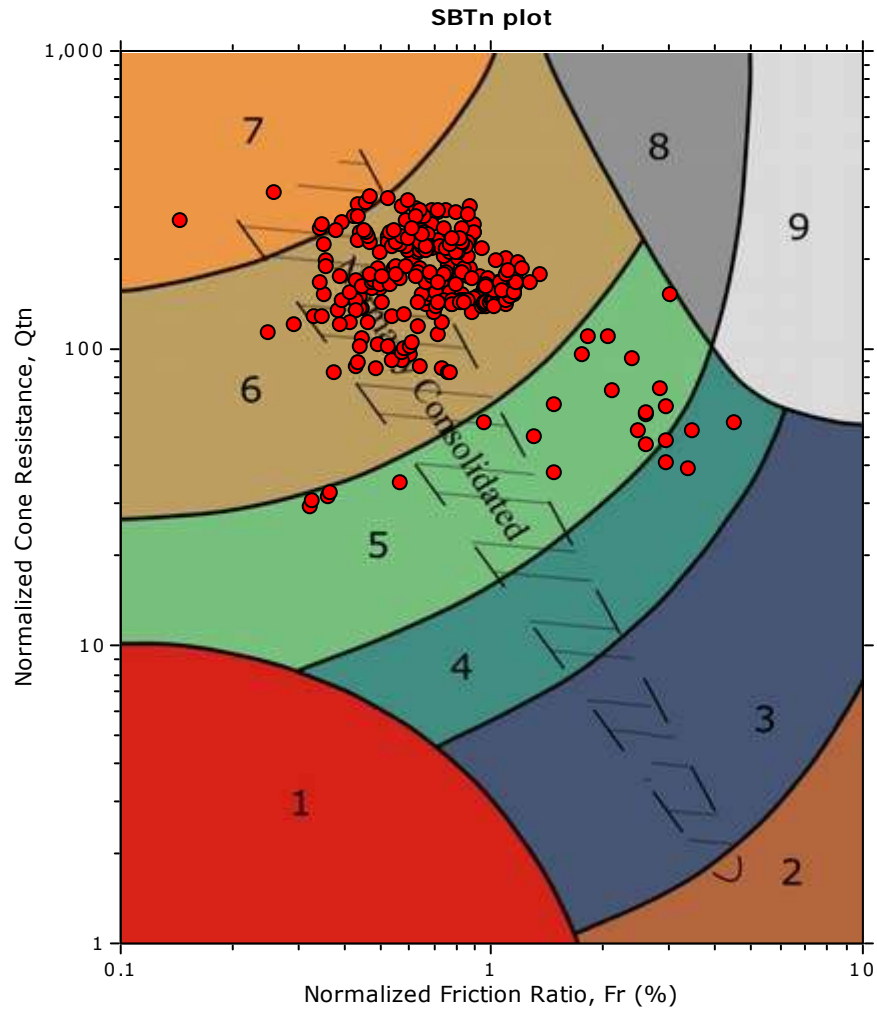


**SBT legend**

- |                           |                              |                                   |
|---------------------------|------------------------------|-----------------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty clay | 7. Gravelly sand to sand          |
| 2. Organic material       | 5. Silty sand to sandy silt  | 8. Very stiff sand to clayey sand |
| 3. Clay to silty clay     | 6. Clean sand to silty sand  | 9. Very stiff fine grained        |



**SBT - Bq plots (normalized)**

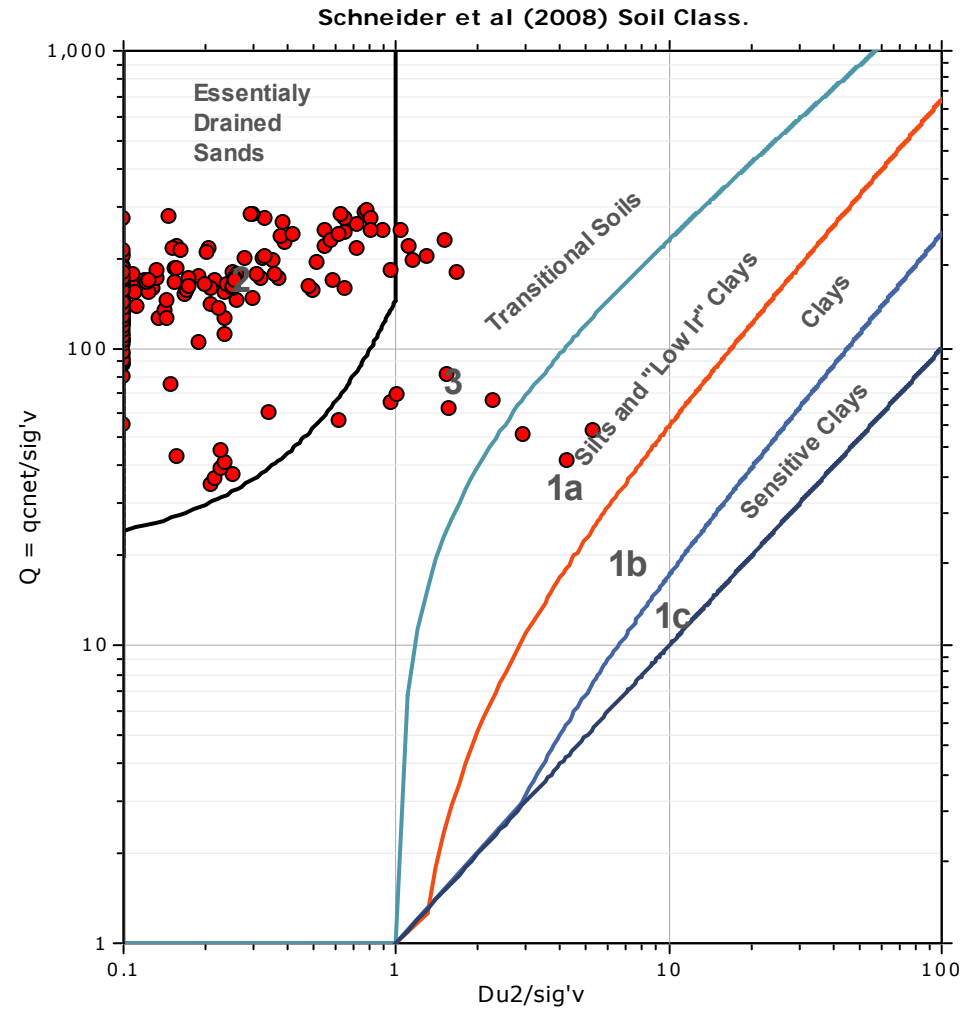
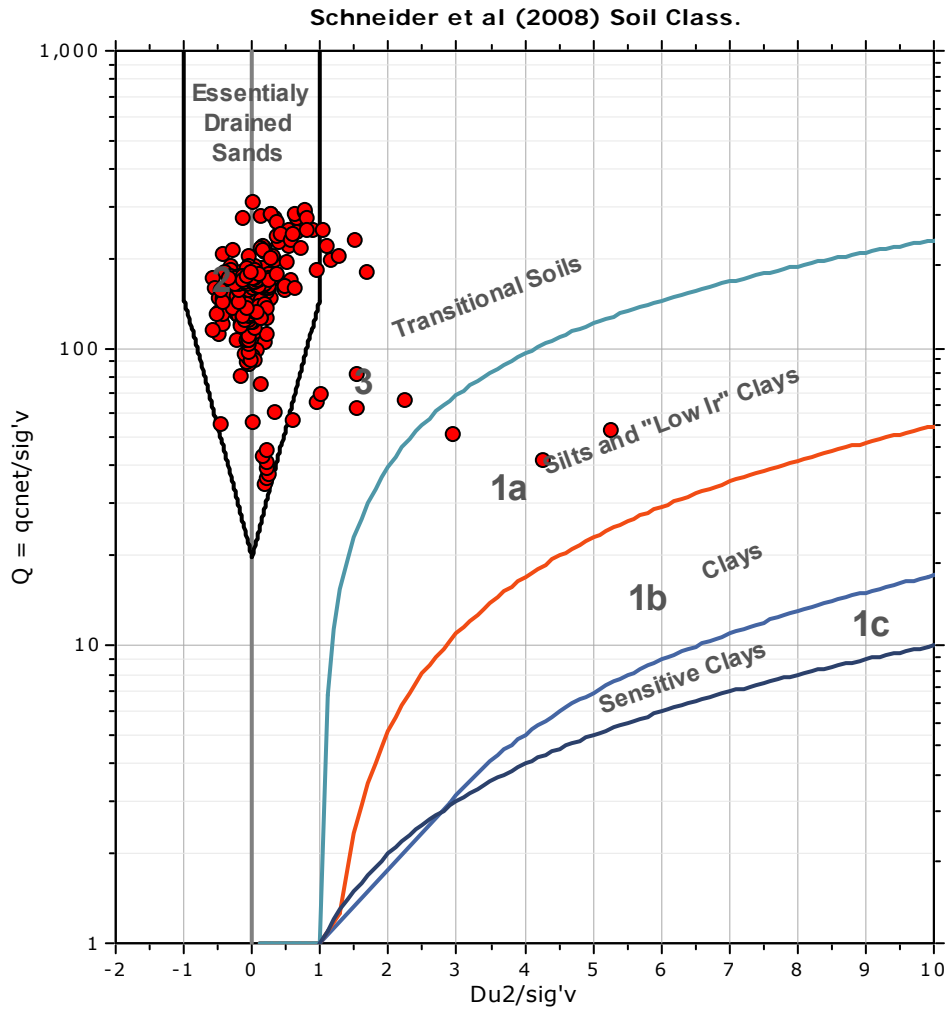


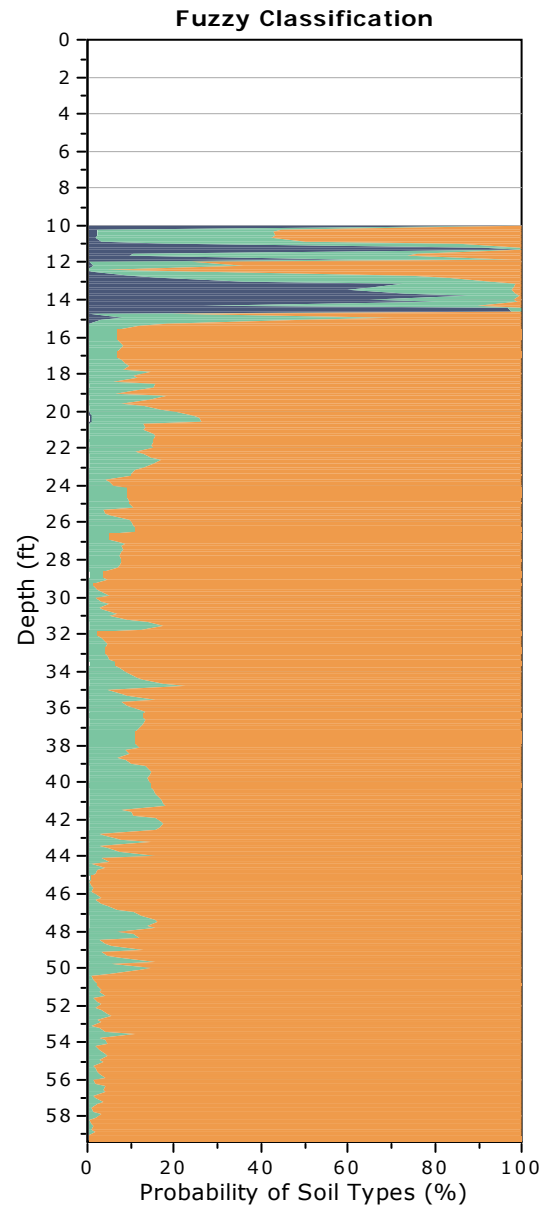
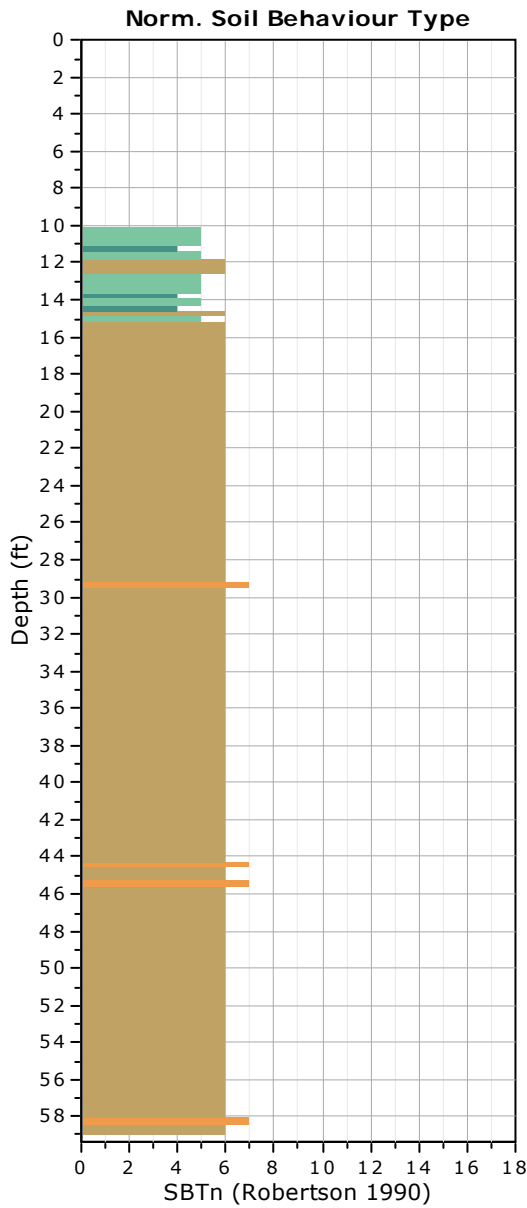
**SBTn legend**

- |                           |                              |                                   |
|---------------------------|------------------------------|-----------------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty clay | 7. Gravelly sand to sand          |
| 2. Organic material       | 5. Silty sand to sandy silt  | 8. Very stiff sand to clayey sand |
| 3. Clay to silty clay     | 6. Clean sand to silty sand  | 9. Very stiff fine grained        |



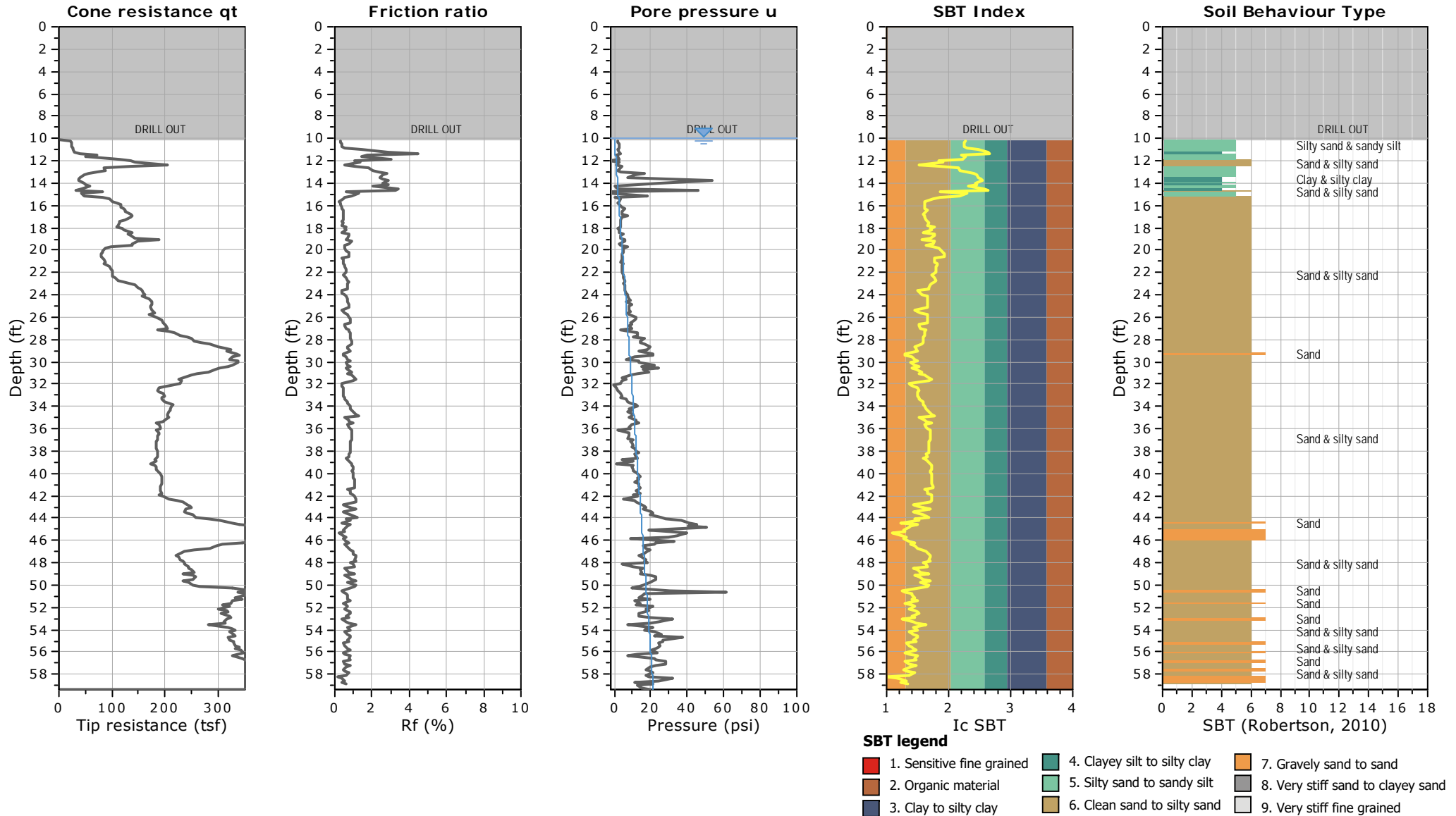
### Bq plots (Schneider)

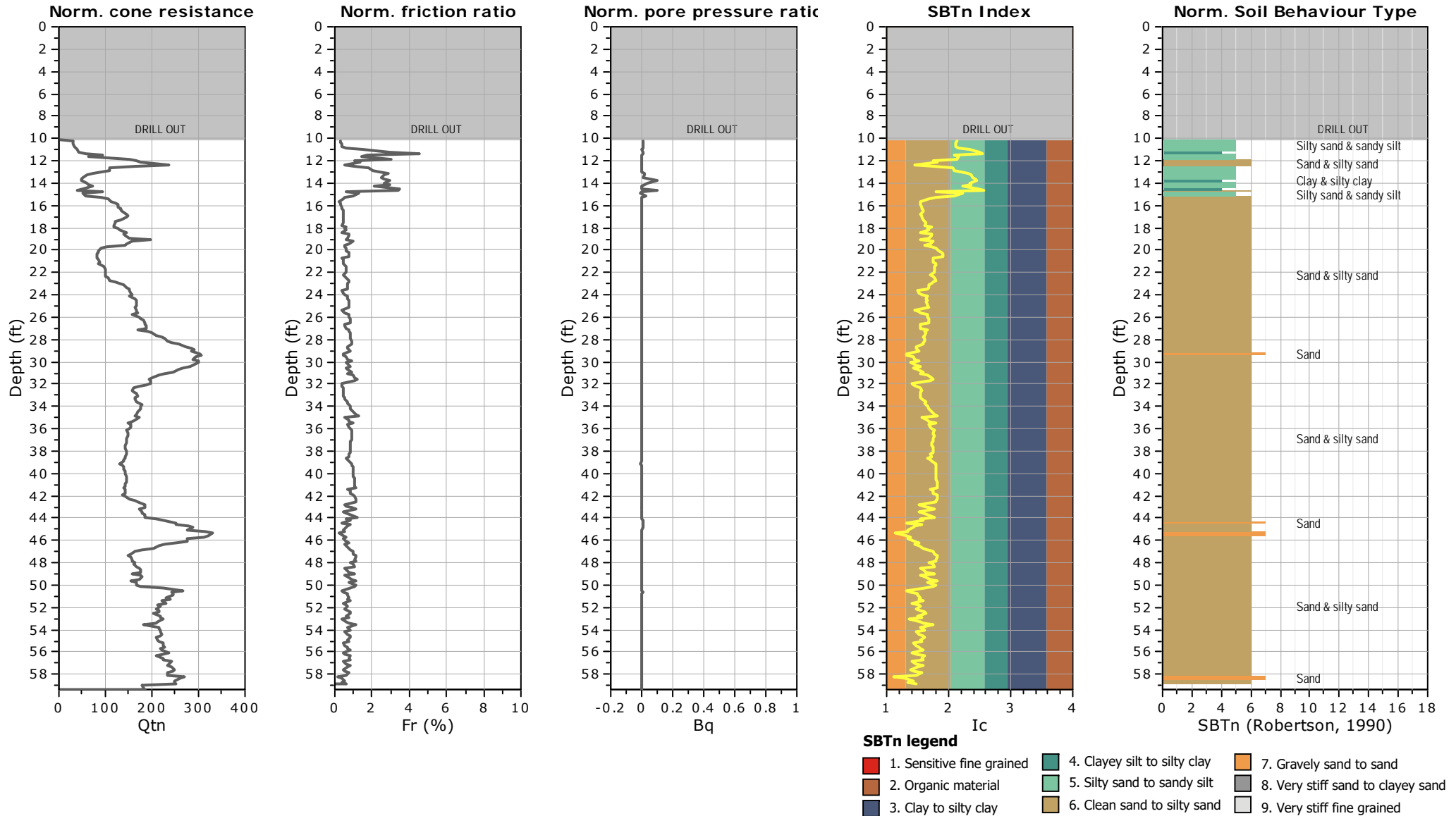


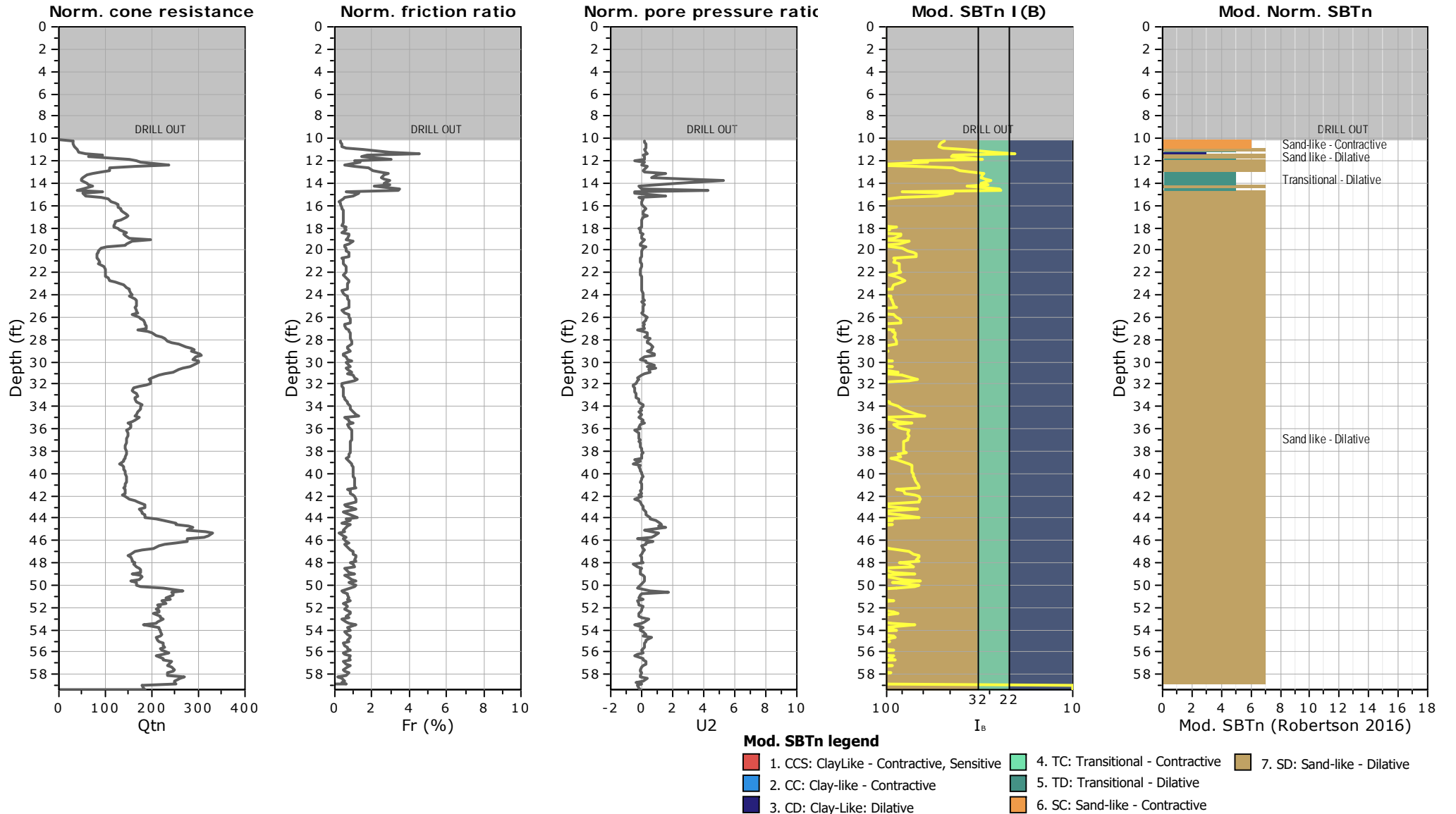


**Fuzzy classification legend**

- Highly probable clayey soil
- Highly probable mixture soil
- Highly probable sandy soil



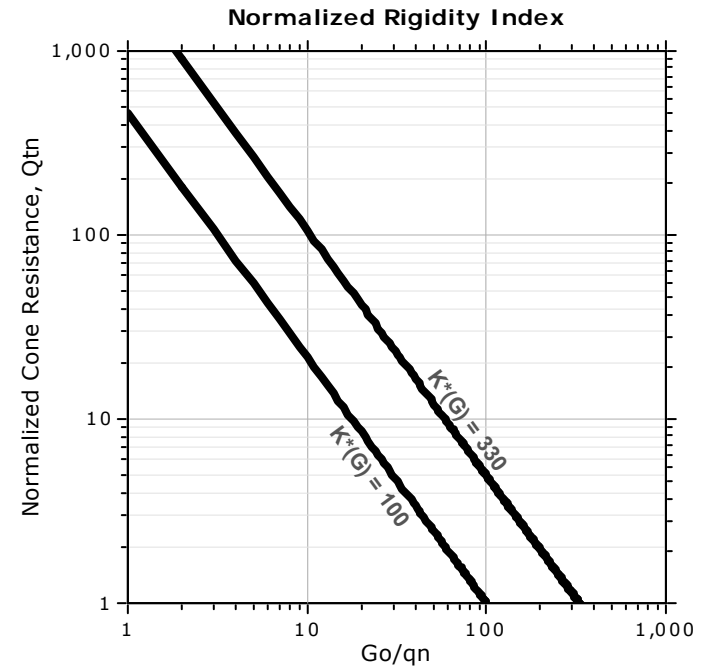
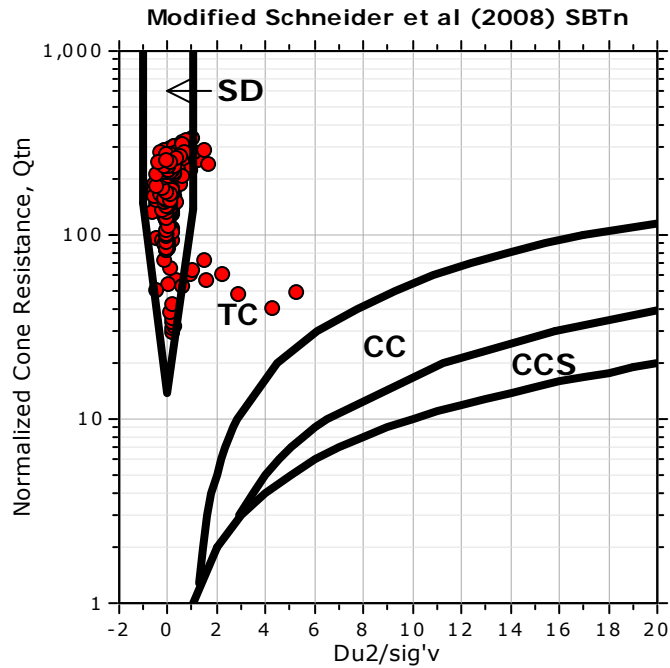
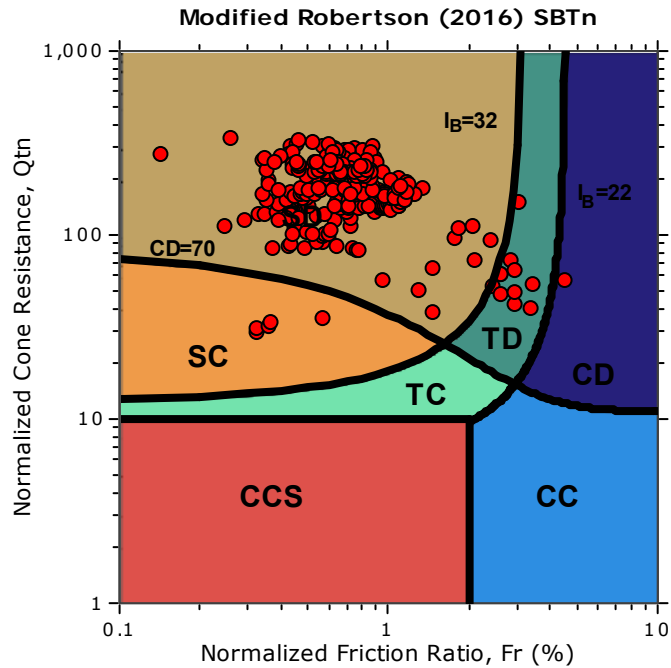






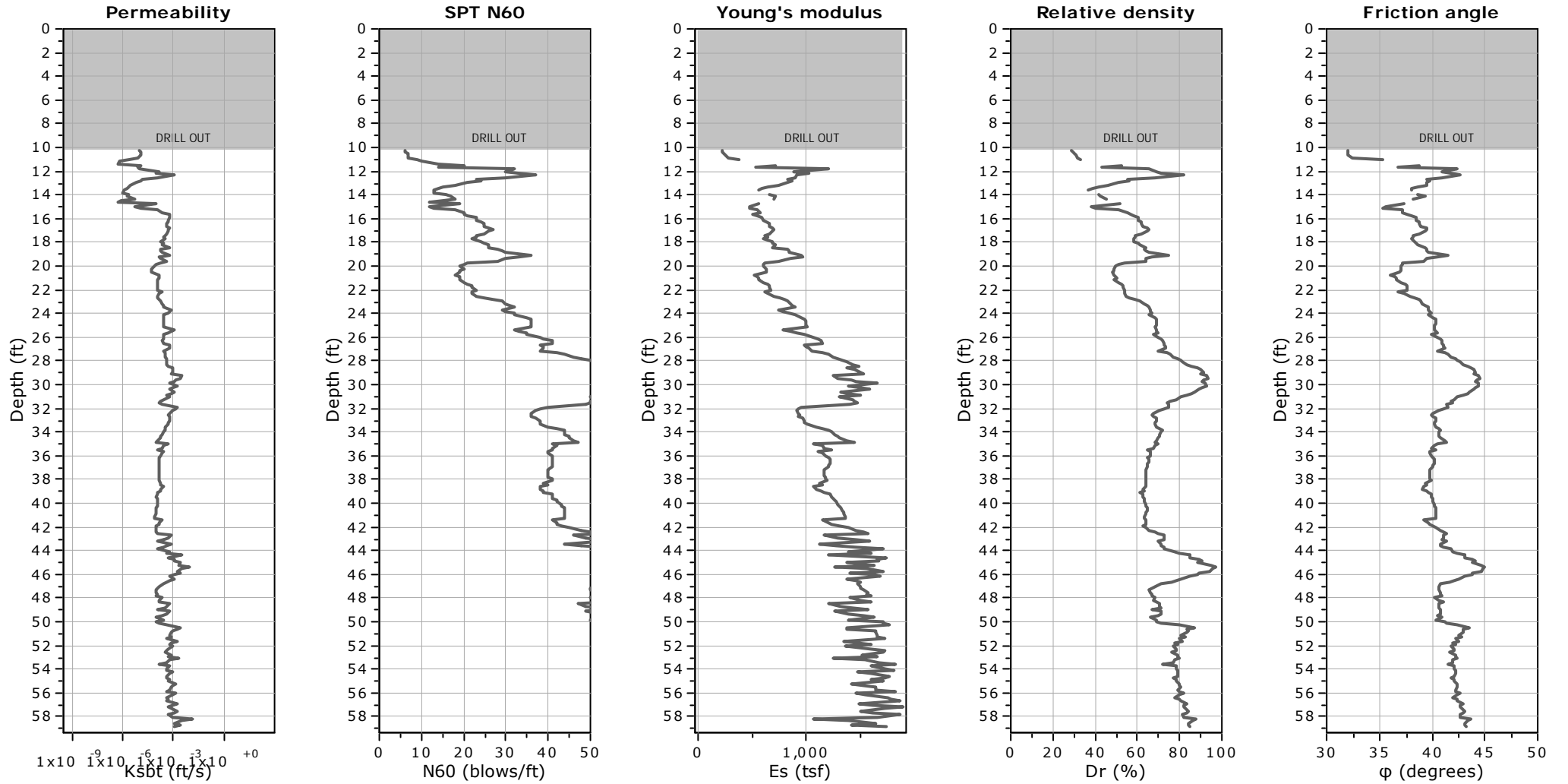


**Updated SBTn plots**



- CCS: Clay-like - Contractive - Sensitive
- CC: Clay-like - Contractive
- CD: Clay-like - Dilative
- TC: Transitional - Contractive
- TD: Transitional - Dilative
- SC: Sand-like - Contractive
- SD: Sand-like - Dilative

$K^*(G) > 330$ : Soils with significant microstructure (e.g. age/cementation)



**Calculation parameters**

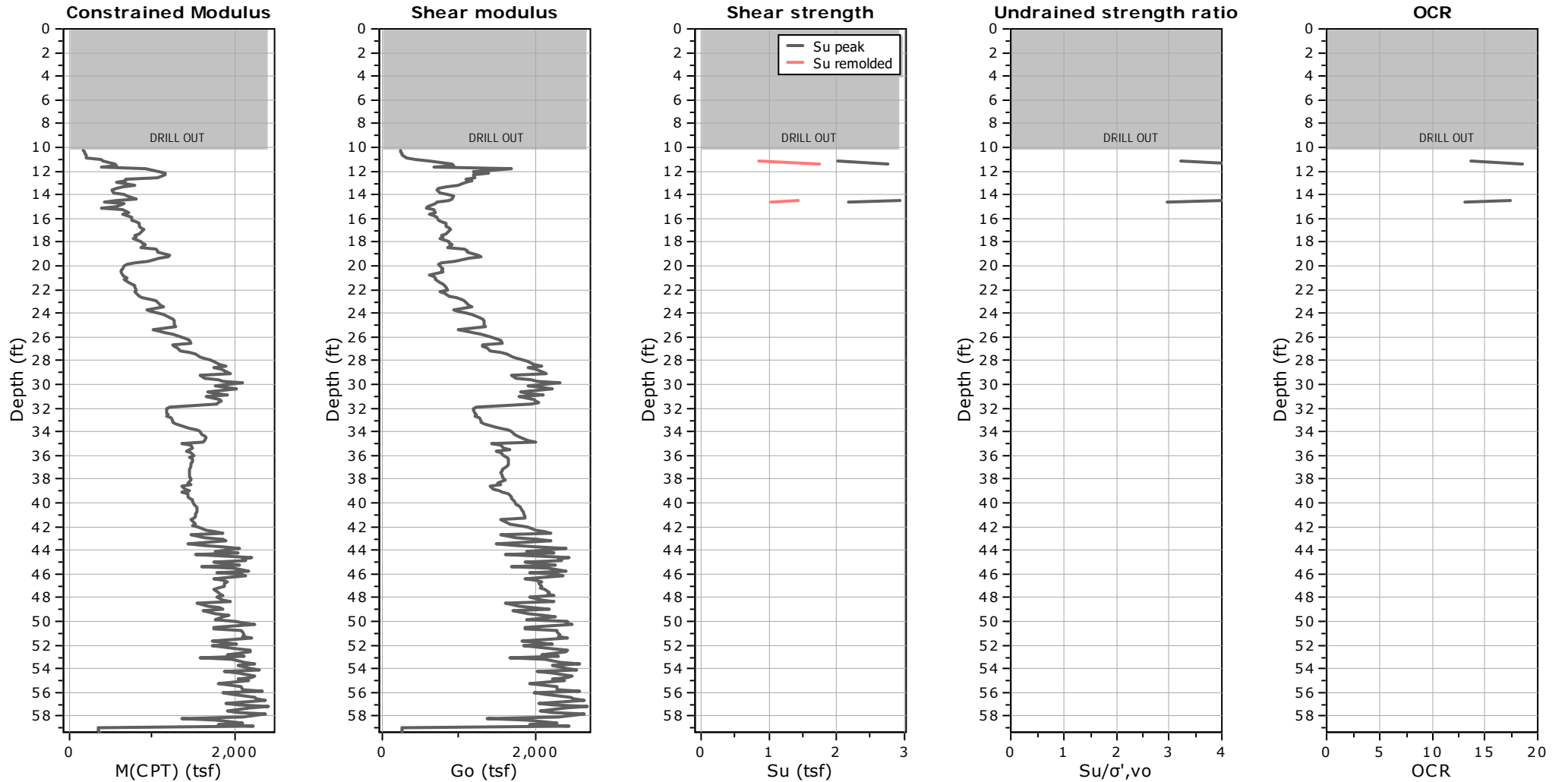
Permeability: Based on  $SBT_n$

SPT  $N_{60}$ : Based on  $I_c$  and  $q_t$

Young's modulus: Based on variable alpha using  $I_c$  (Robertson, 2009)

Relative density constant,  $C_{Dr}$ : 350.0

Phi: Based on Kulhawy & Mayne (1990)



**Calculation parameters**

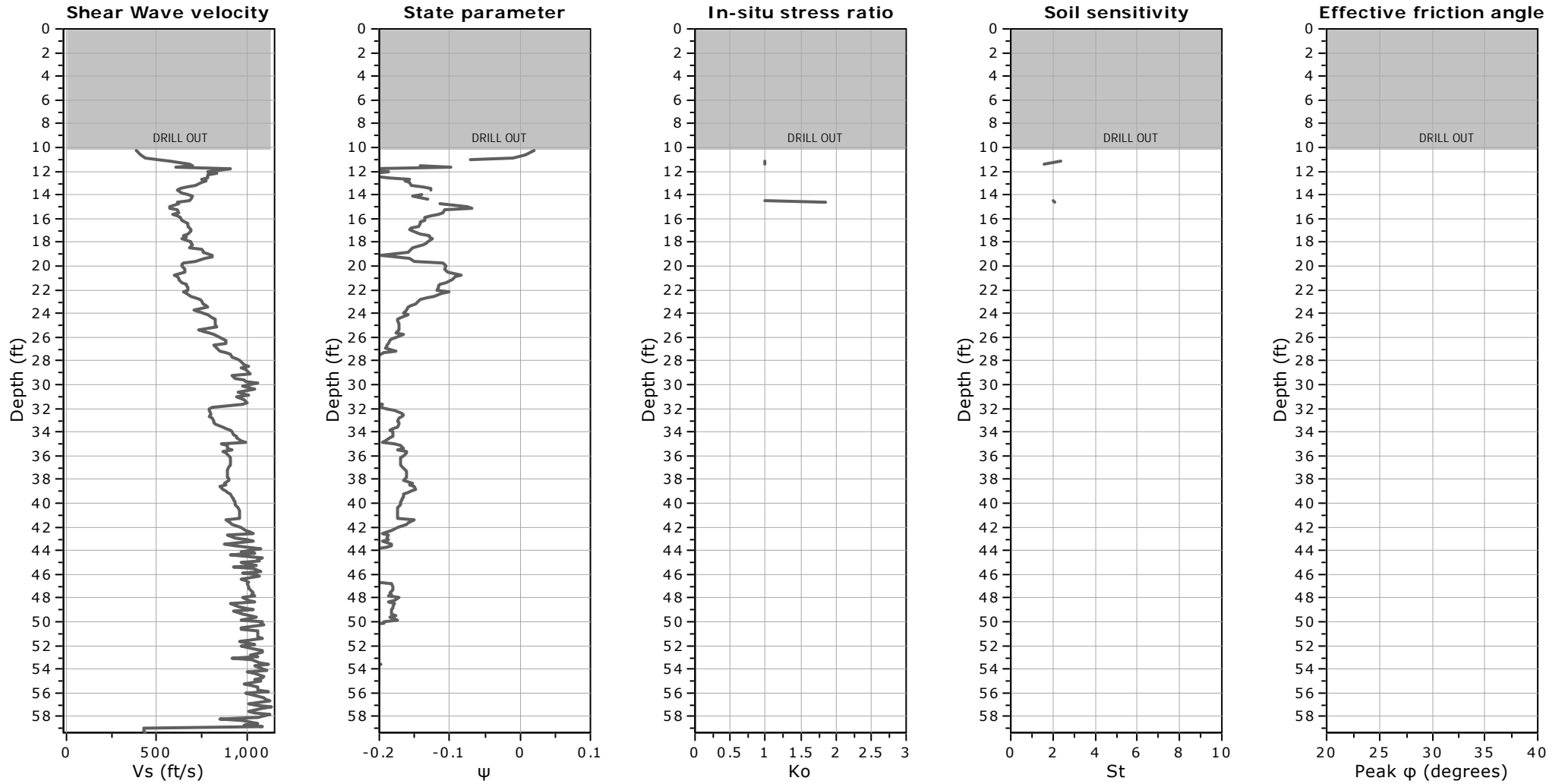
Constrained modulus: Based on variable  $\alpha$  using  $I_c$  and  $Q_{tn}$  (Robertson, 2009)

Go: Based on variable  $\alpha$  using  $I_c$  (Robertson, 2009)

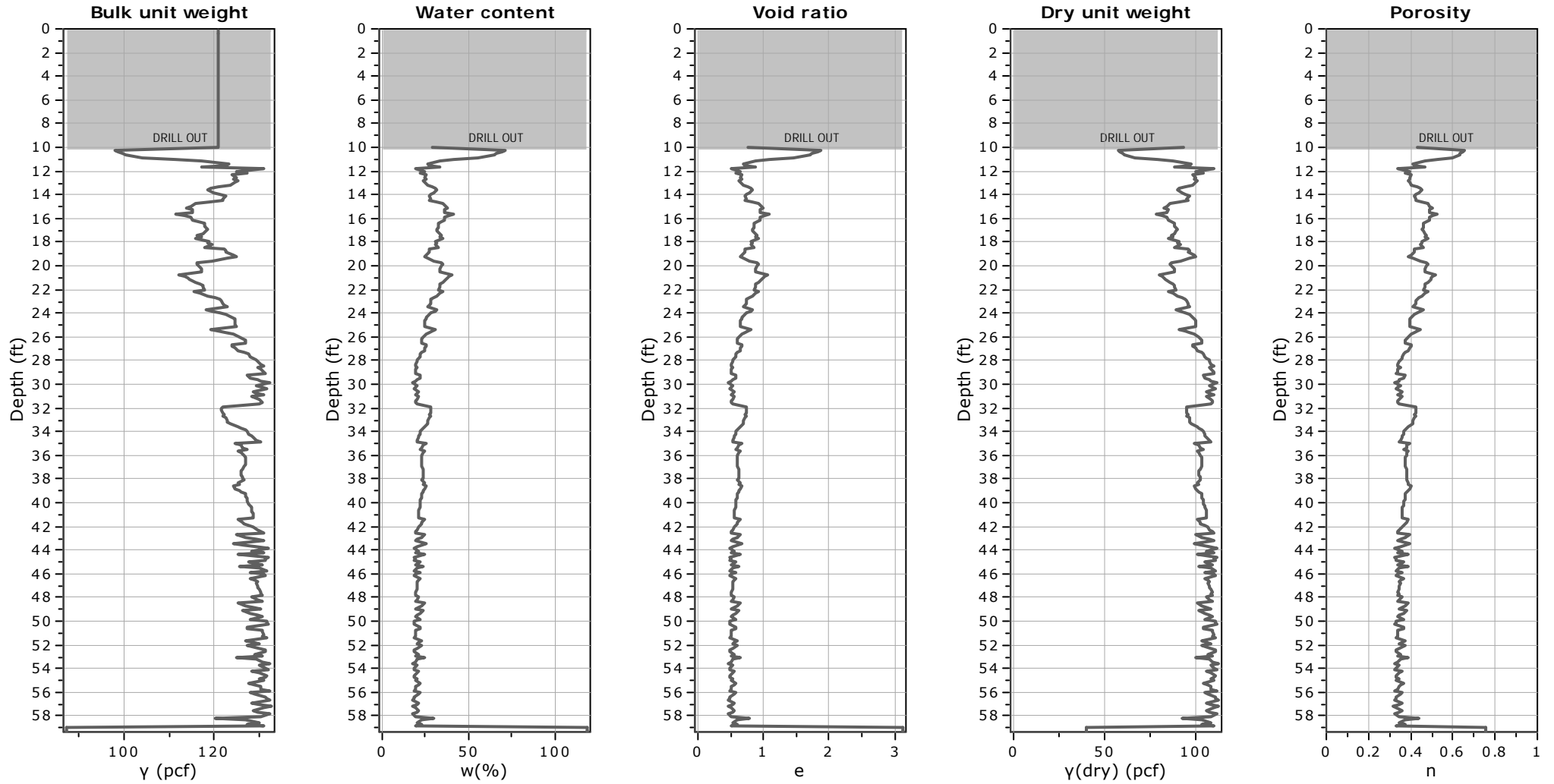
Undrained shear strength cone factor for clays,  $N_{kt}$ : 14

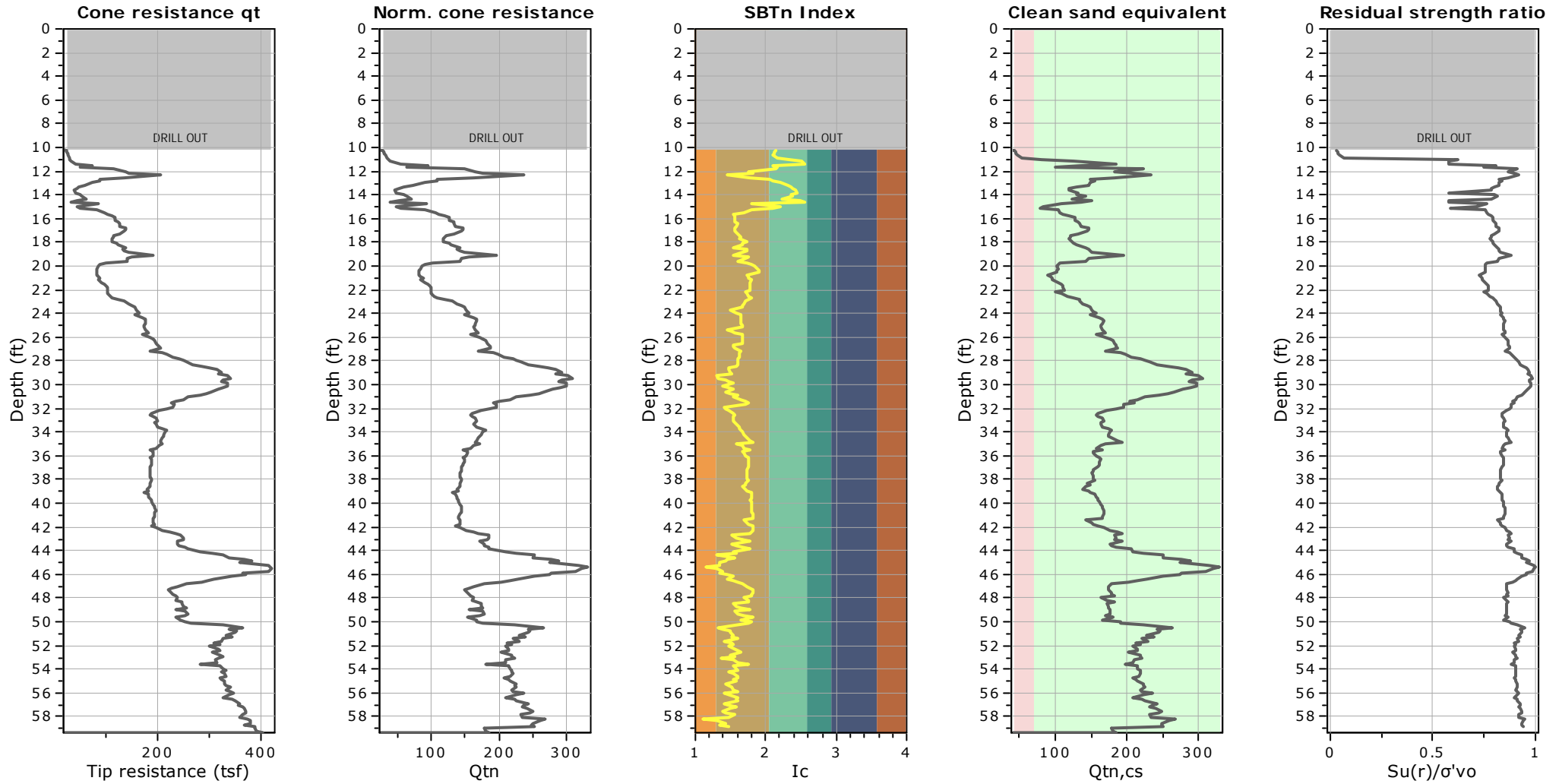
OCR factor for clays,  $N_{kt}$ : 0.33

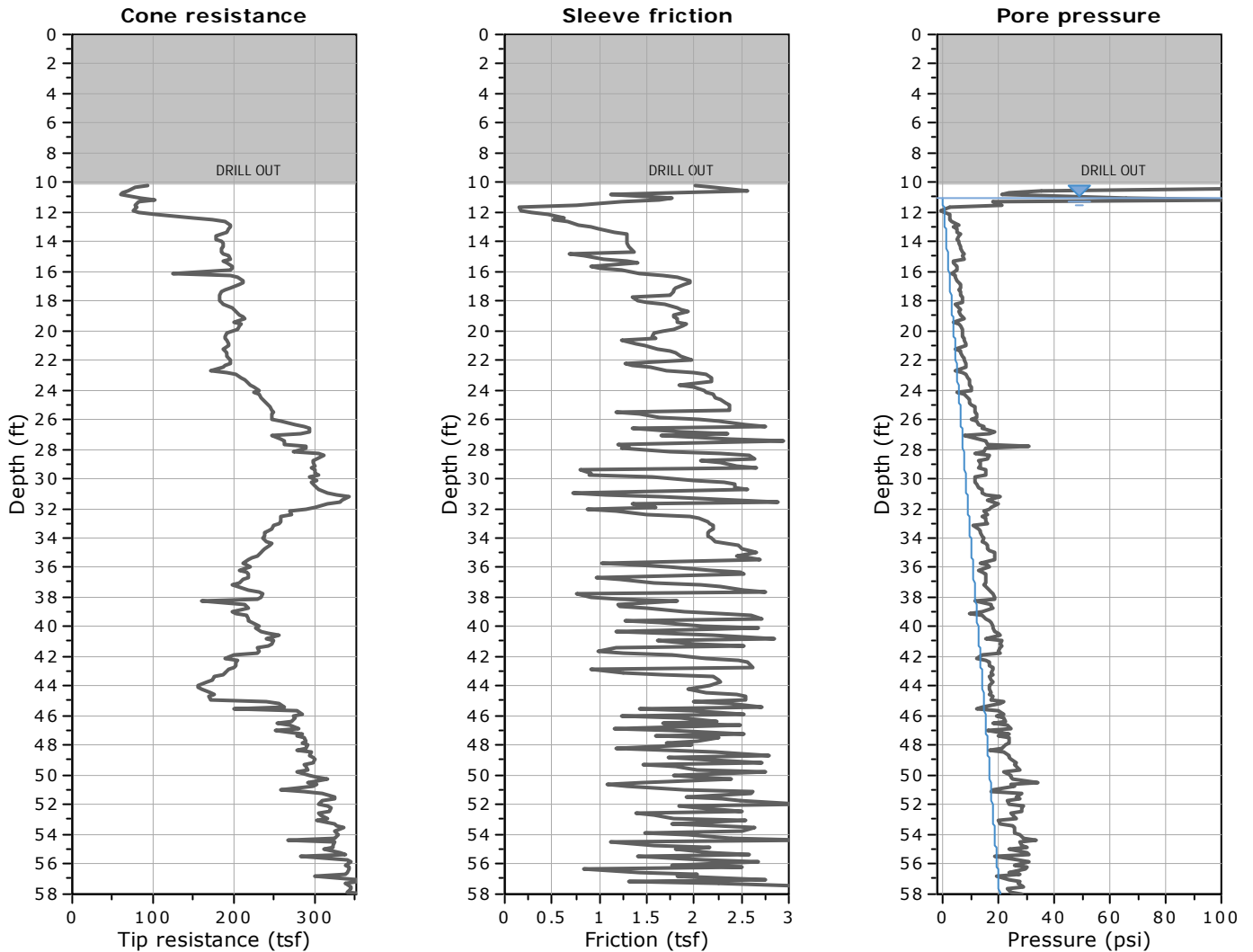
● Flat Dilatometer Test data



**Calculation parameters**  
Soil Sensitivity factor,  $N_s$ : 7.00

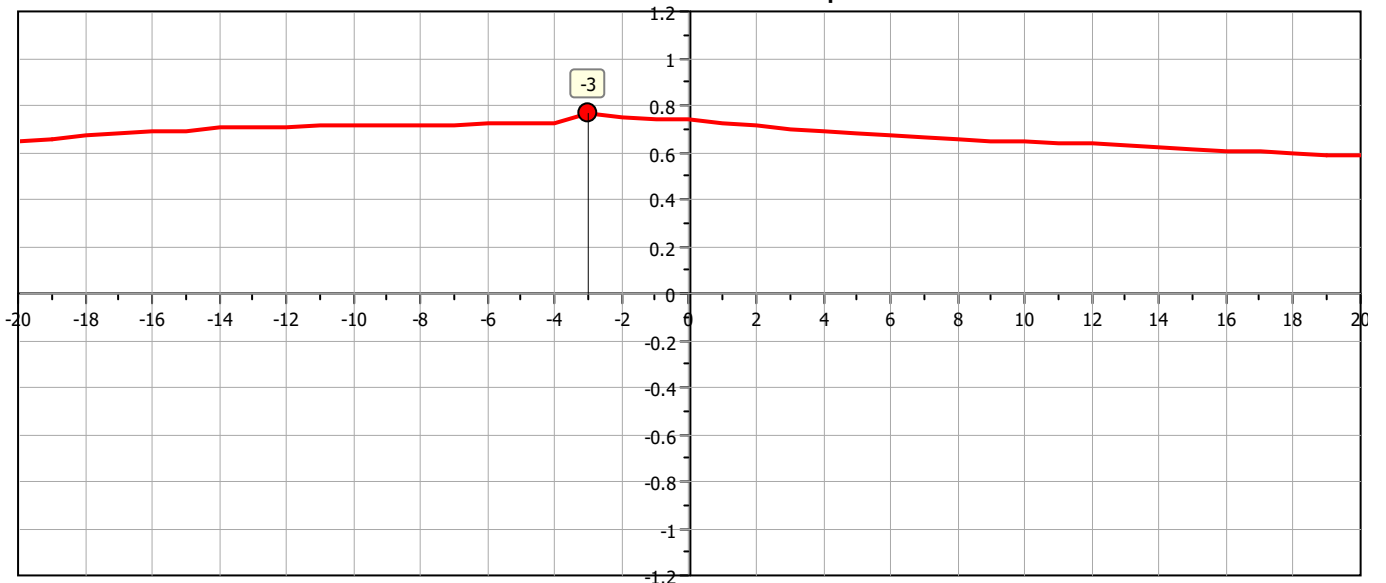






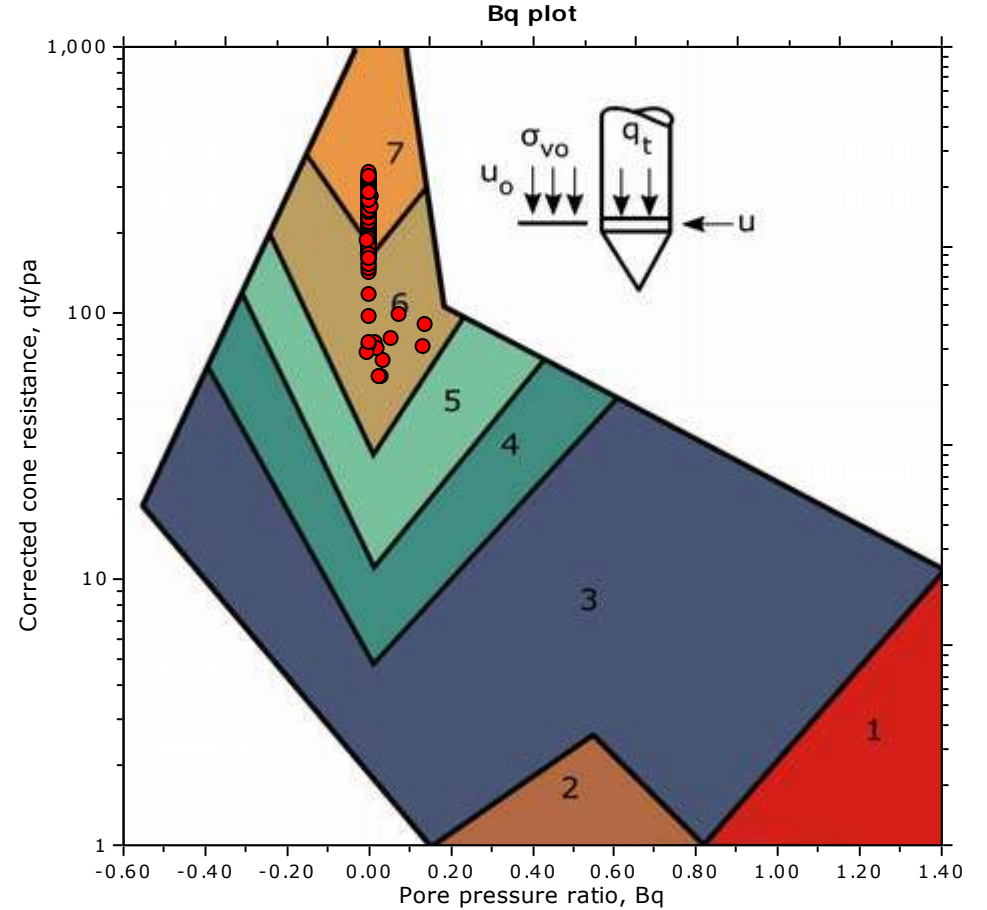
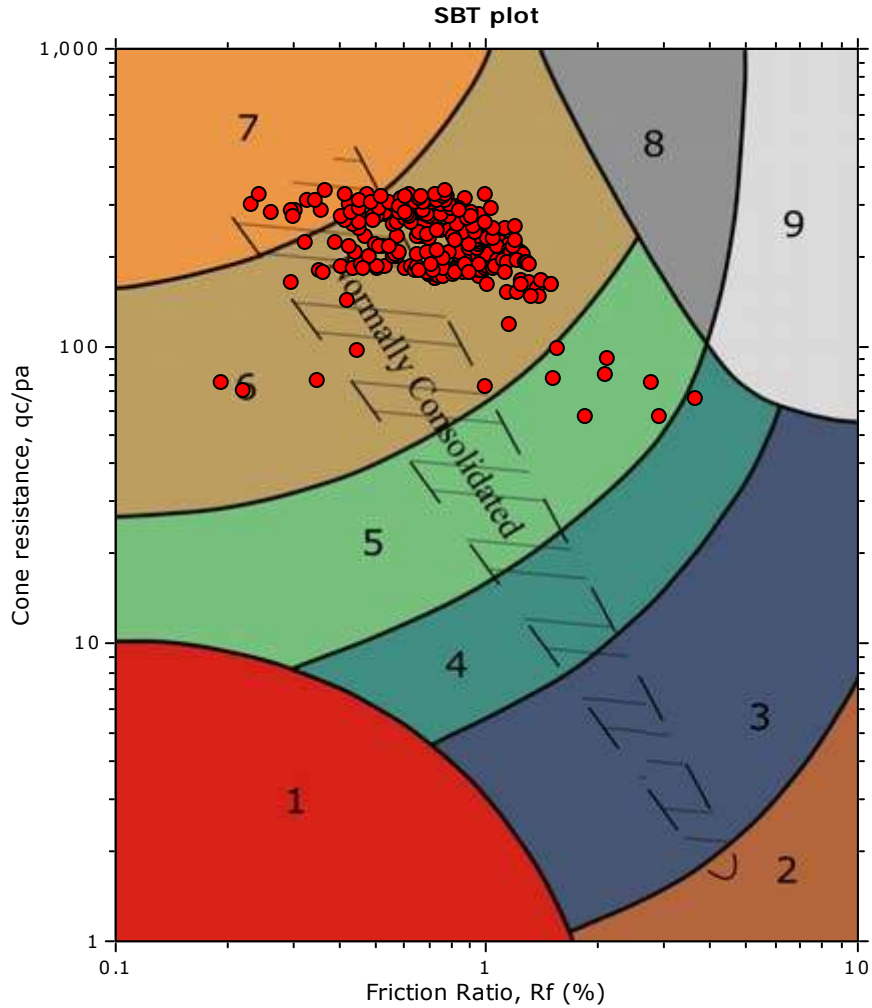
The plot below presents the cross correlation coefficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two successive CPT measurements).

Cross correlation between qc & fs





**SBT - Bq plots**



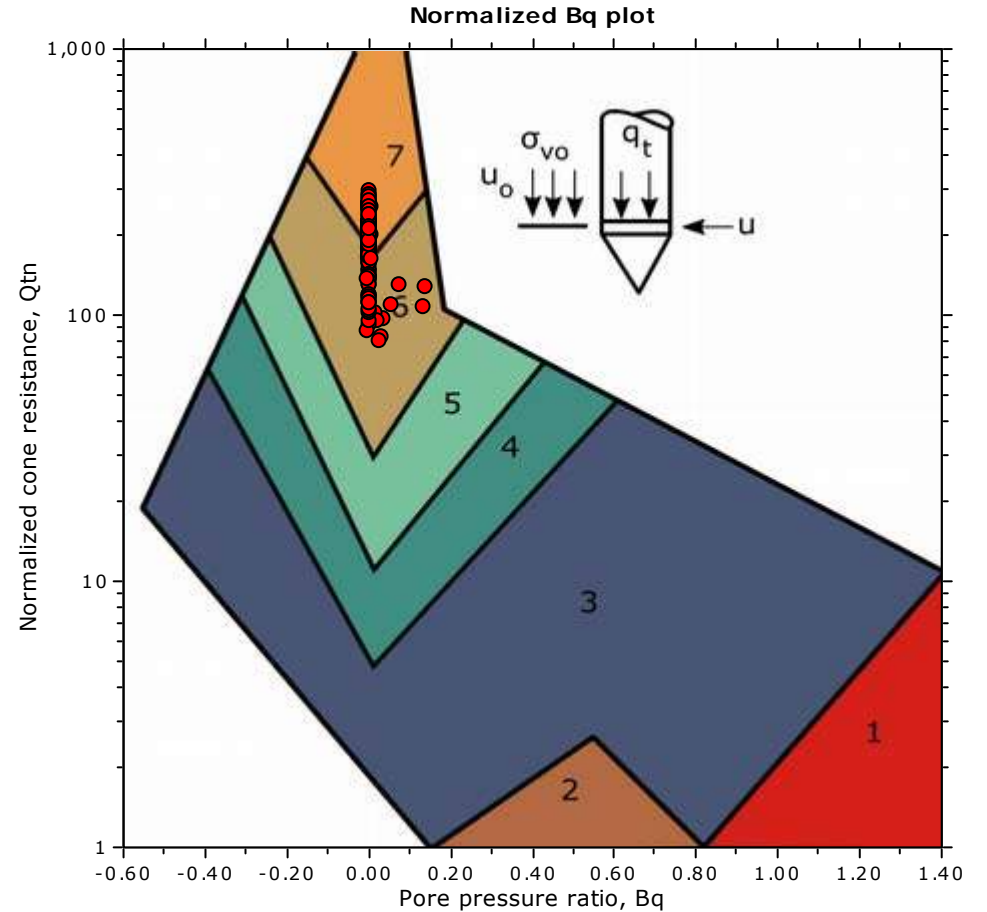
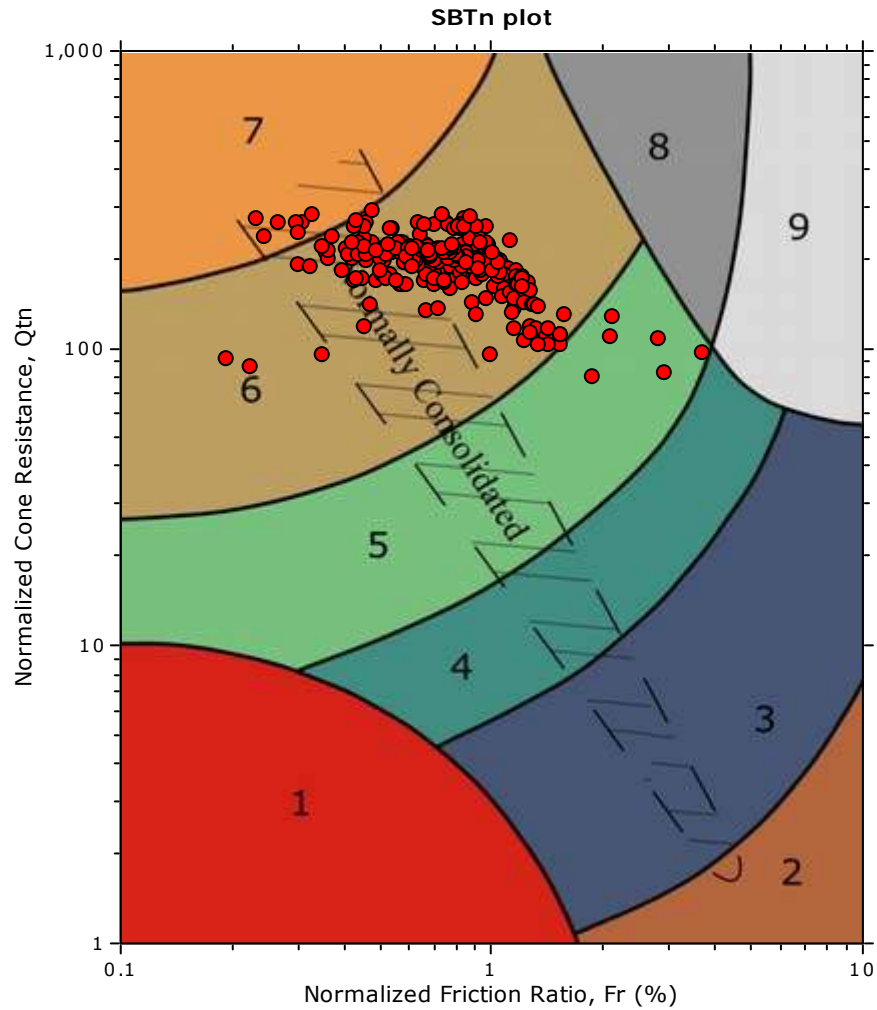
**SBT legend**

- |                           |                              |                                   |
|---------------------------|------------------------------|-----------------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty clay | 7. Gravelly sand to sand          |
| 2. Organic material       | 5. Silty sand to sandy silt  | 8. Very stiff sand to clayey sand |
| 3. Clay to silty clay     | 6. Clean sand to silty sand  | 9. Very stiff fine grained        |





**SBT - Bq plots (normalized)**

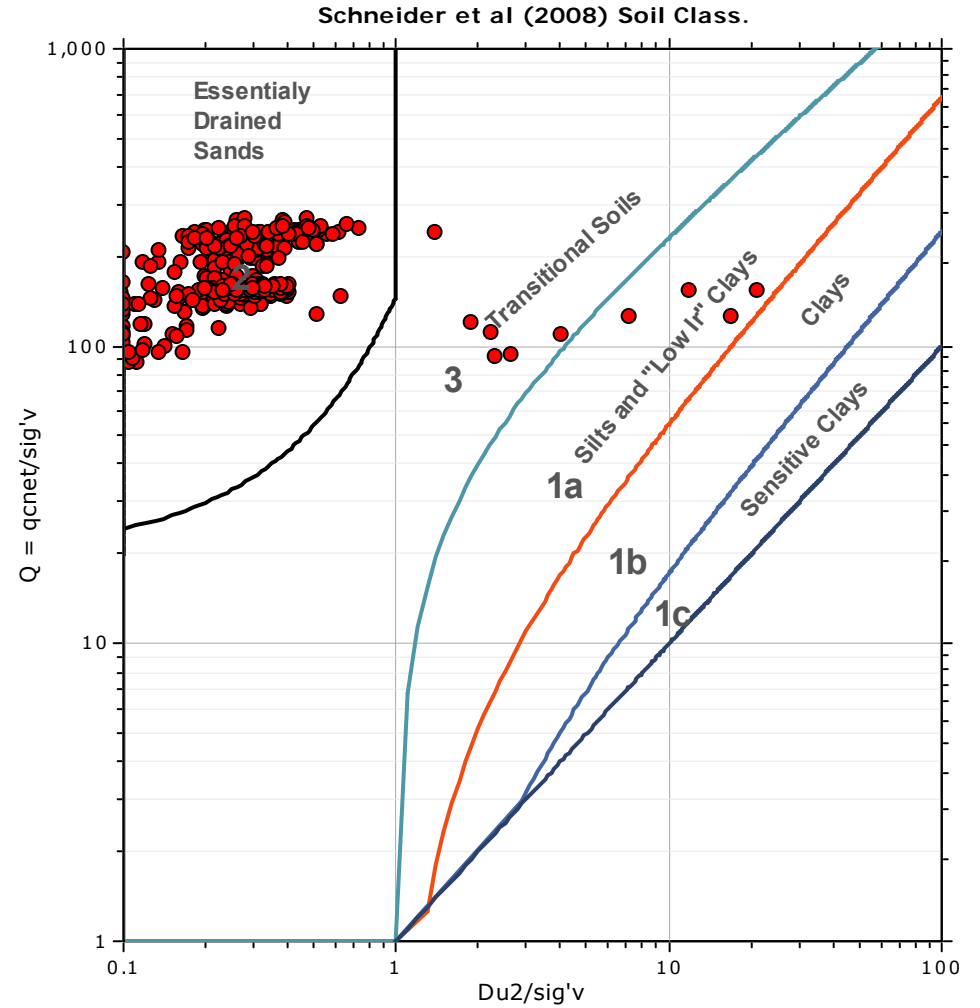
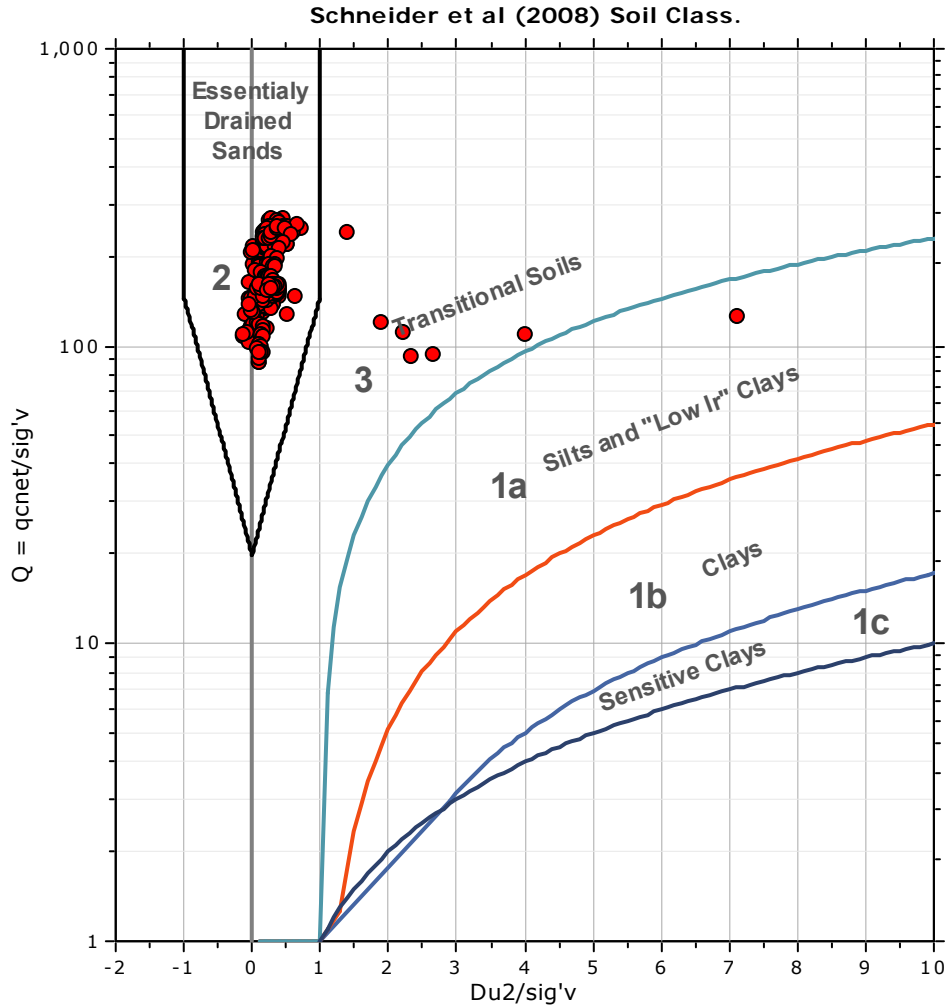


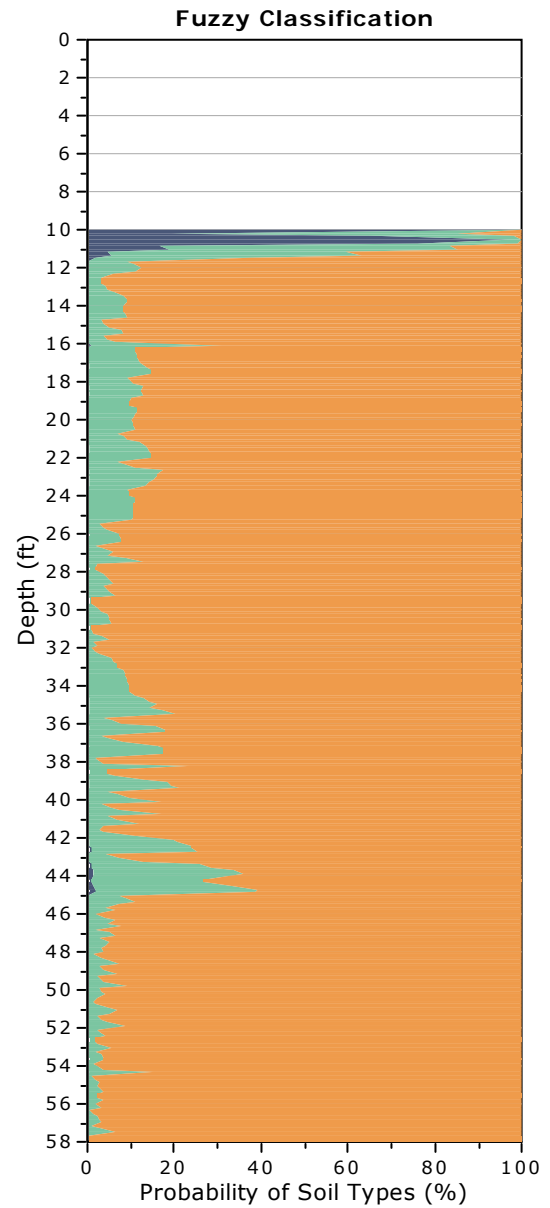
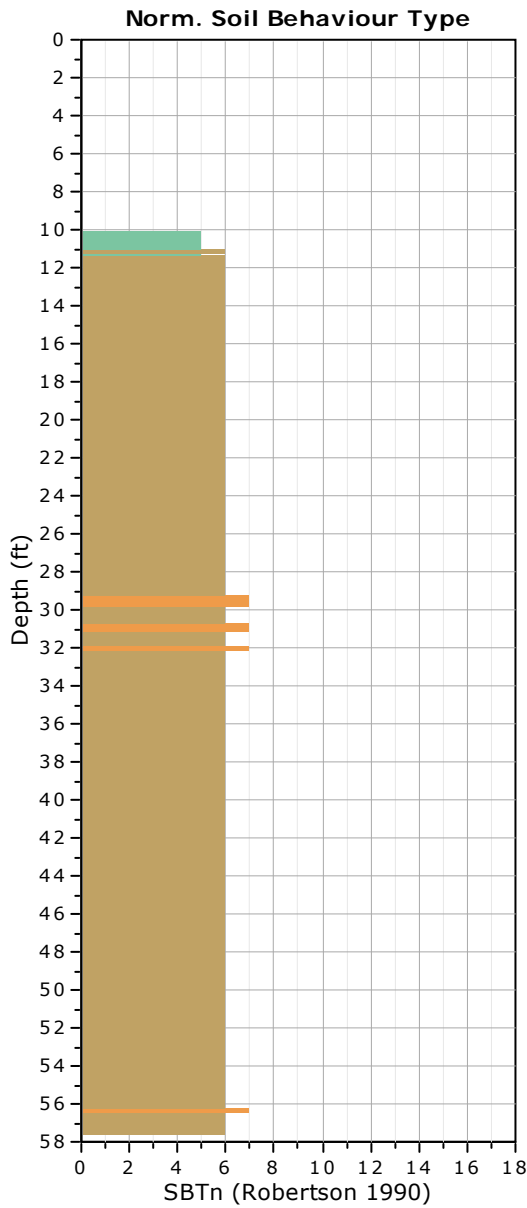
**SBTn legend**

- |                           |                              |                                   |
|---------------------------|------------------------------|-----------------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty clay | 7. Gravelly sand to sand          |
| 2. Organic material       | 5. Silty sand to sandy silt  | 8. Very stiff sand to clayey sand |
| 3. Clay to silty clay     | 6. Clean sand to silty sand  | 9. Very stiff fine grained        |



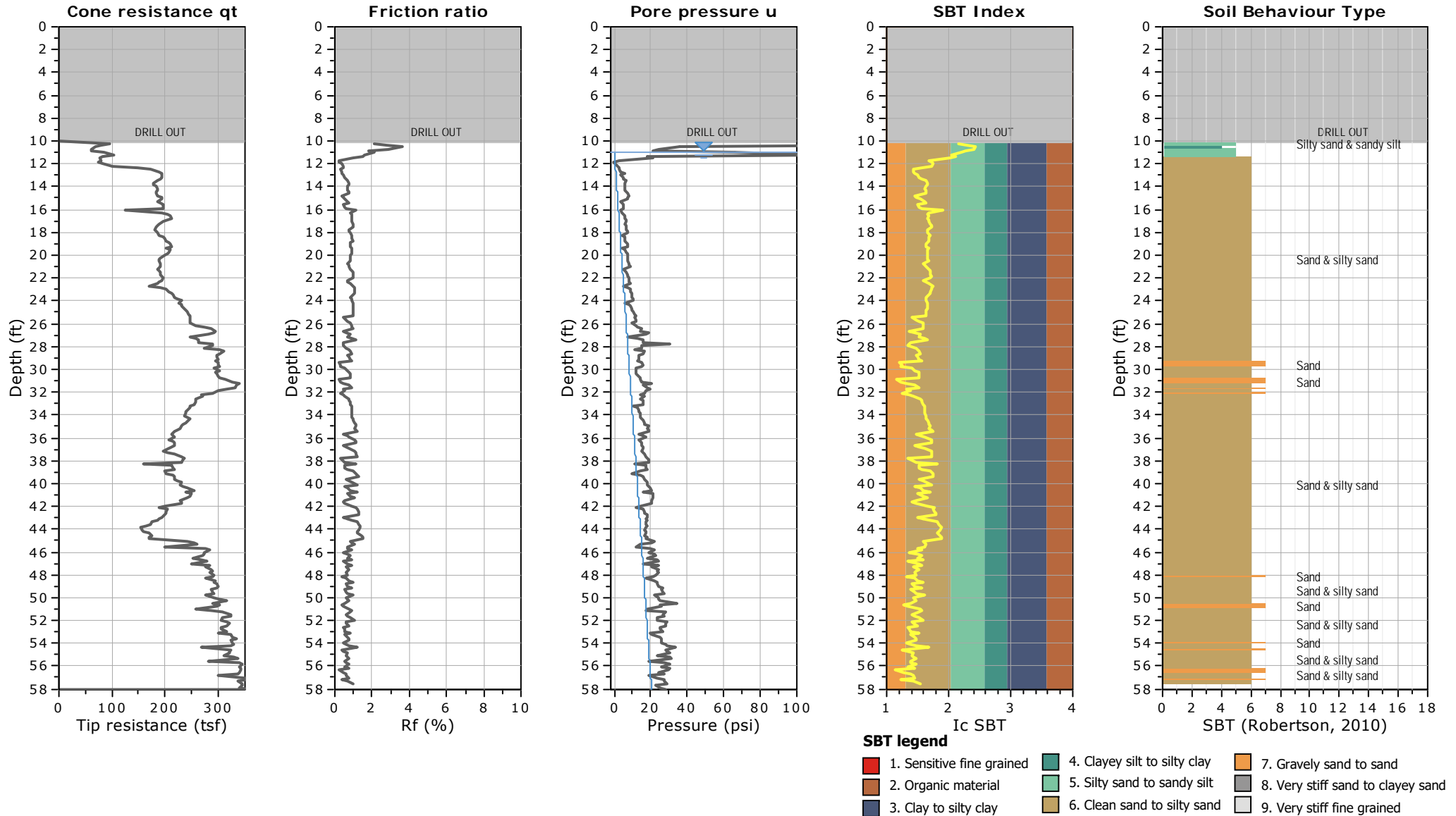
### Bq plots (Schneider)

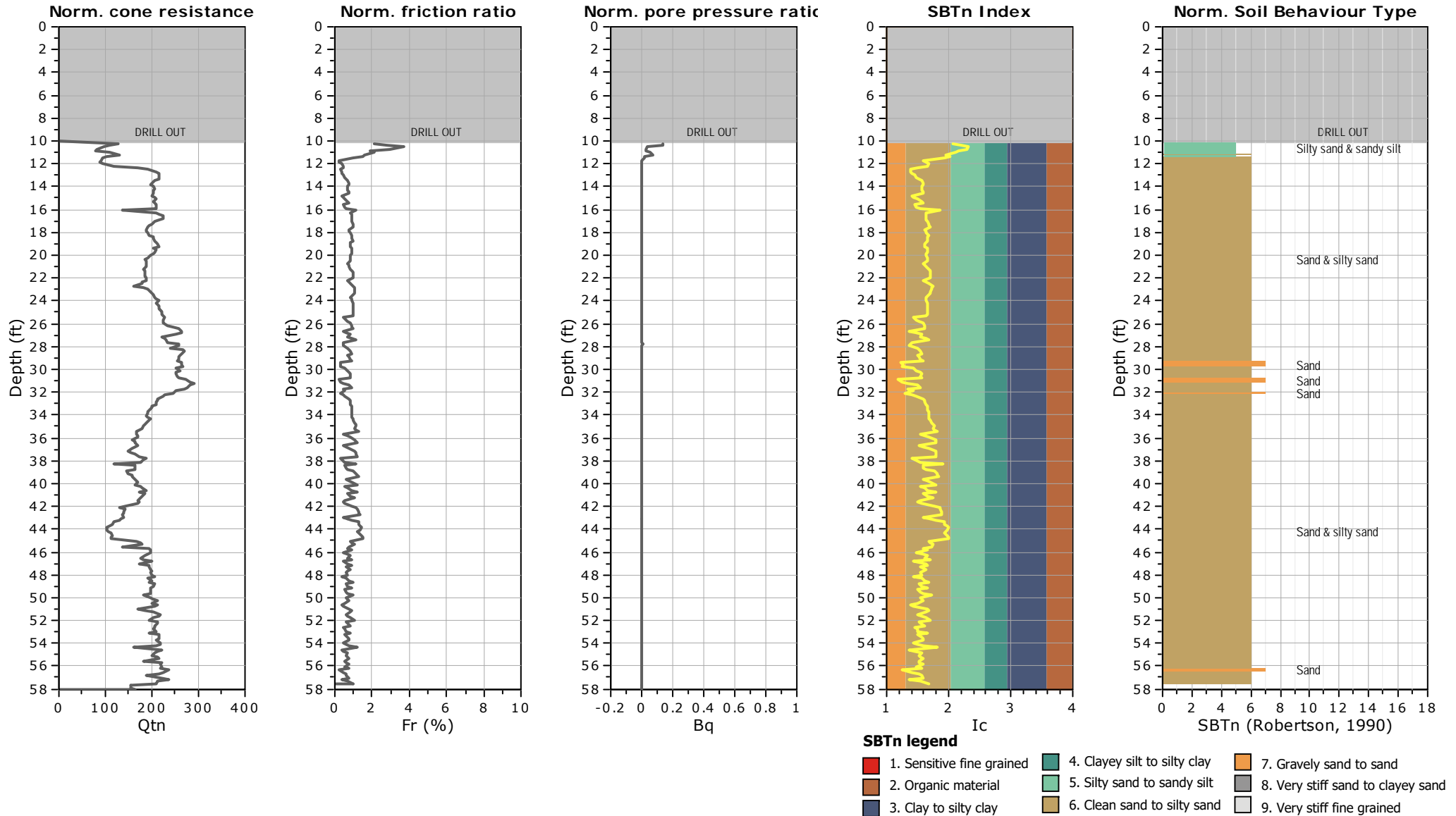


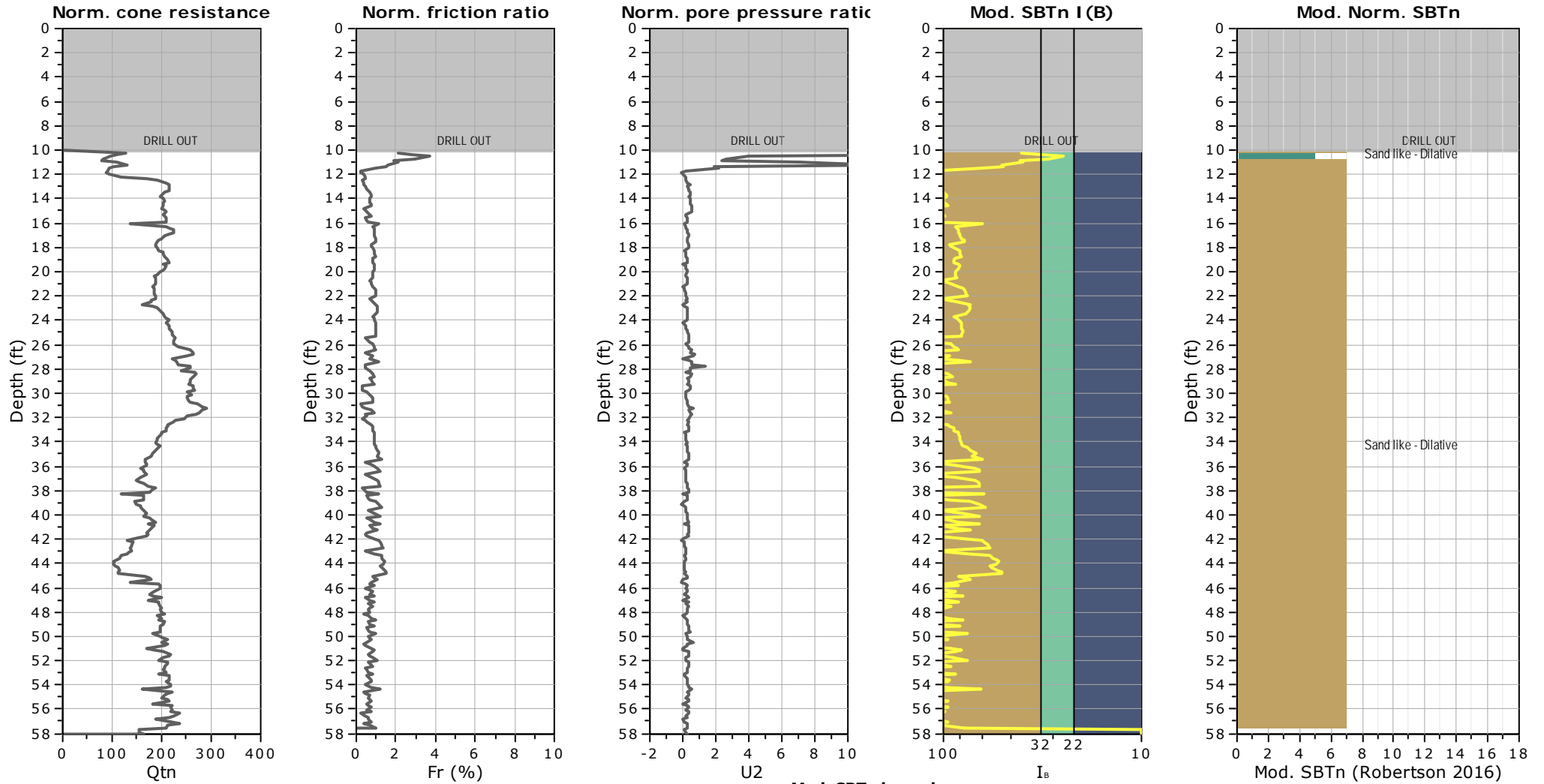


**Fuzzy classification legend**

- Highly probable clayey soil
- Highly probable mixture soil
- Highly probable sandy soil



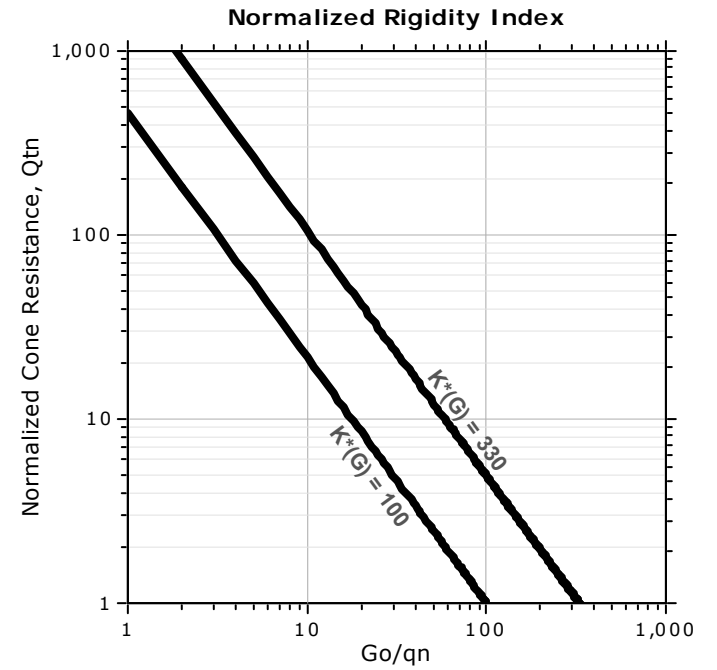
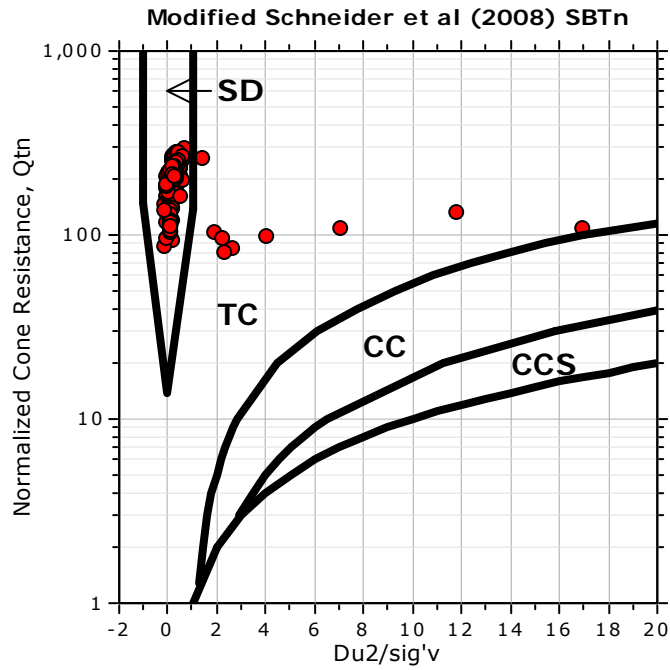
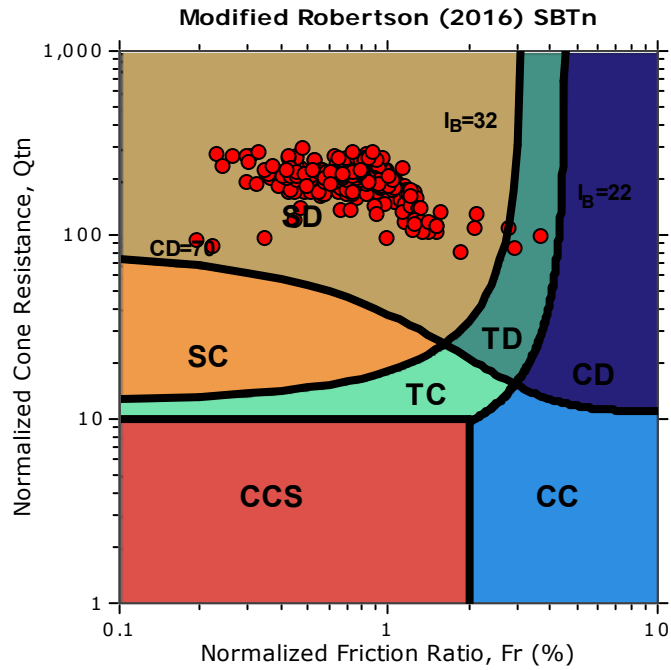




- Mod. SBTn legend**
- 1. CCS: ClayLike - Contractive, Sensitive
  - 2. CC: Clay-like - Contractive
  - 3. CD: Clay-Like: Dilative
  - 4. TC: Transitional - Contractive
  - 5. TD: Transitional - Dilative
  - 6. SC: Sand-like - Contractive
  - 7. SD: Sand-like - Dilative

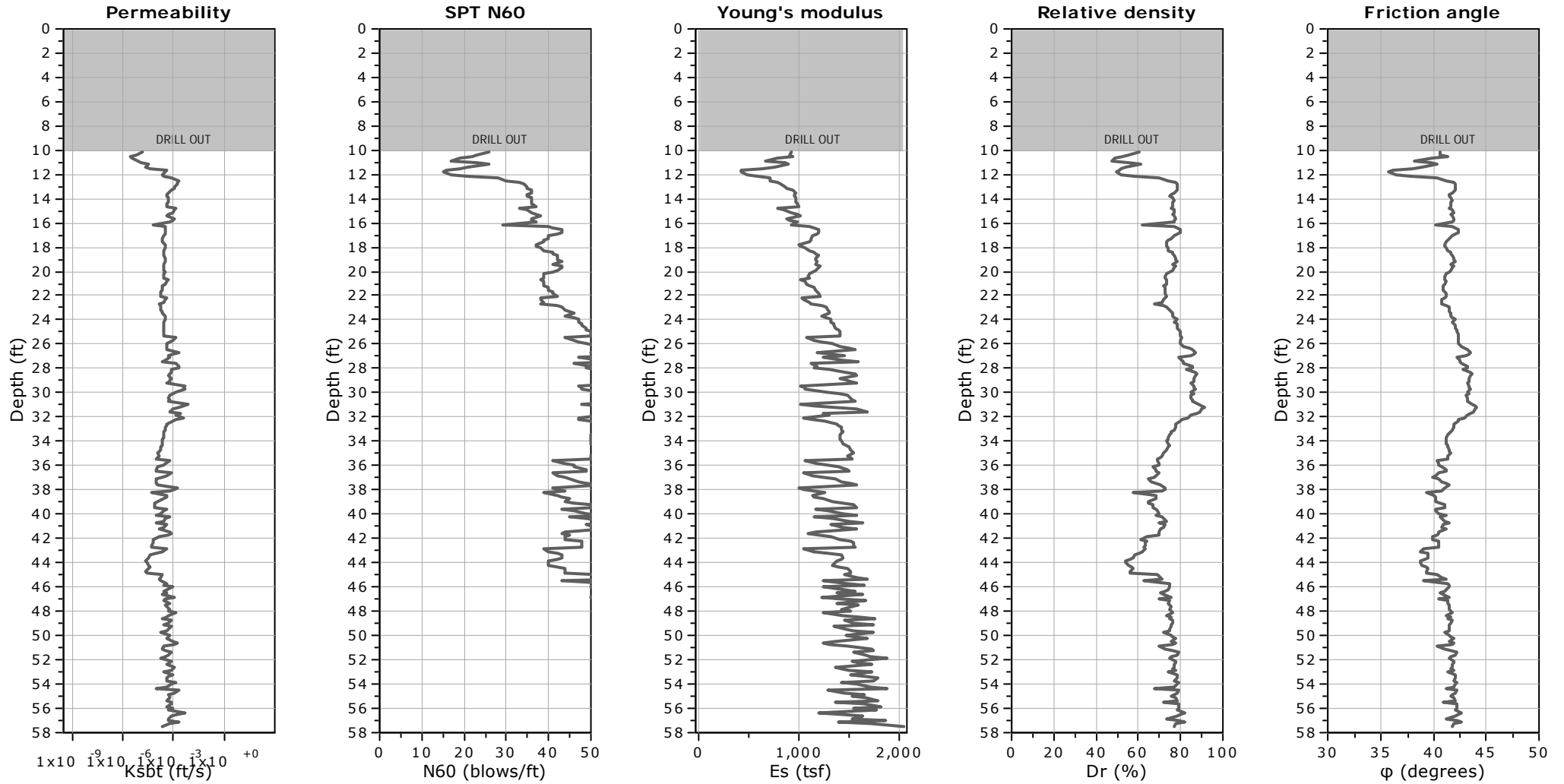


**Updated SBTn plots**



- CCS: Clay-like - Contractive - Sensitive
- CC: Clay-like - Contractive
- CD: Clay-like - Dilative
- TC: Transitional - Contractive
- TD: Transitional - Dilative
- SC: Sand-like - Contractive
- SD: Sand-like - Dilative

$K^*(G) > 330$ : Soils with significant microstructure (e.g. age/cementation)



**Calculation parameters**

Permeability: Based on SBT<sub>n</sub>

SPT N<sub>60</sub>: Based on I<sub>c</sub> and q<sub>t</sub>

Young's modulus: Based on variable alpha using I<sub>c</sub> (Robertson, 2009)

Relative density constant, C<sub>Dr</sub>: 350.0

Phi: Based on Kulhawy & Mayne (1990)





**Craig Geotechnical Drilling**

5230 Atlantic Ave

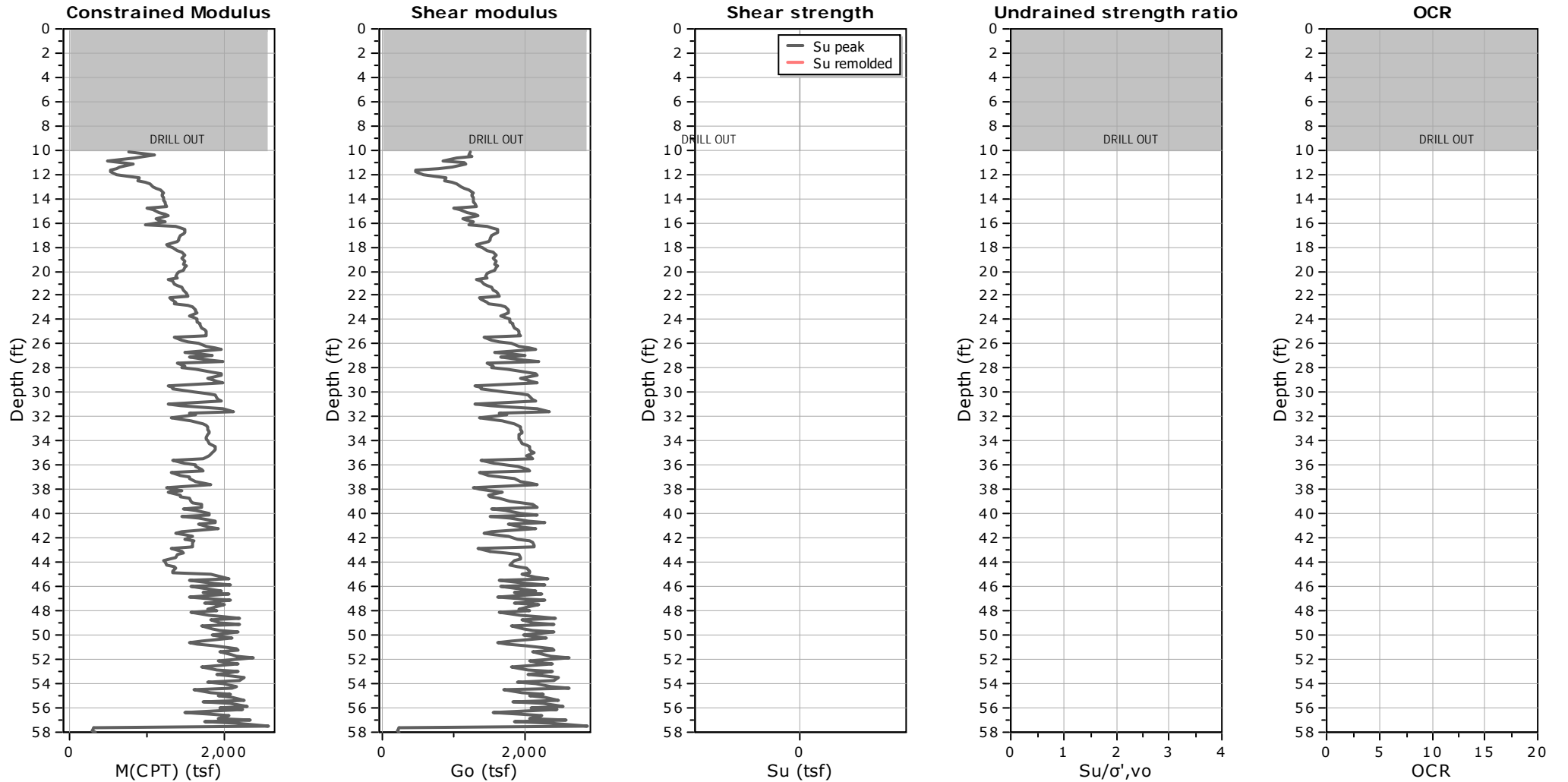
Mays Landing, NJ

**Project: Langan**

**Location: 145 Wolcott St, Brooklyn NY**

**CPT-2a**

Total depth: 58.04 ft



**Calculation parameters**

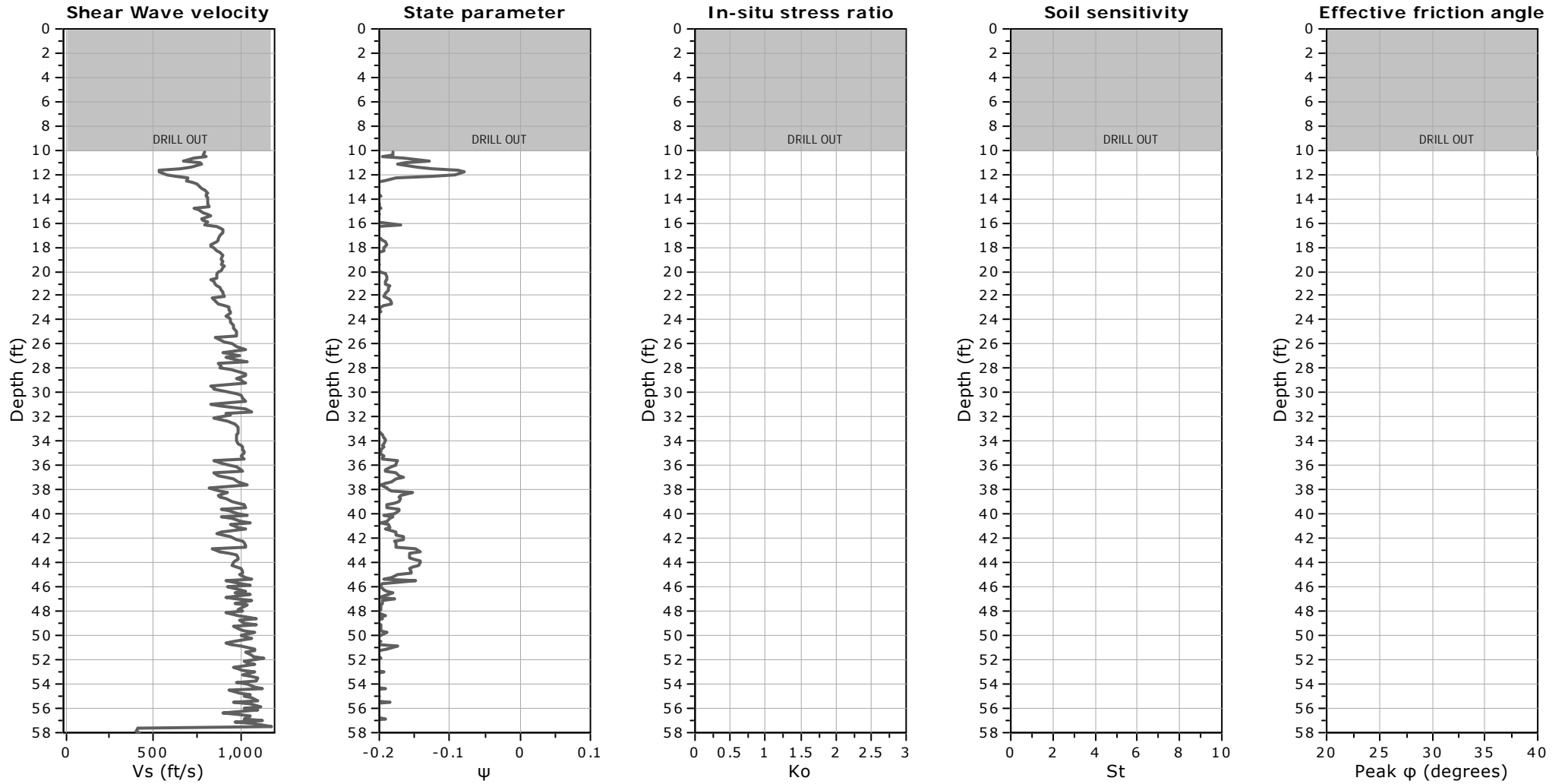
Constrained modulus: Based on variable  $\alpha$  using  $I_c$  and  $Q_{tn}$  (Robertson, 2009)

Go: Based on variable  $\alpha$  using  $I_c$  (Robertson, 2009)

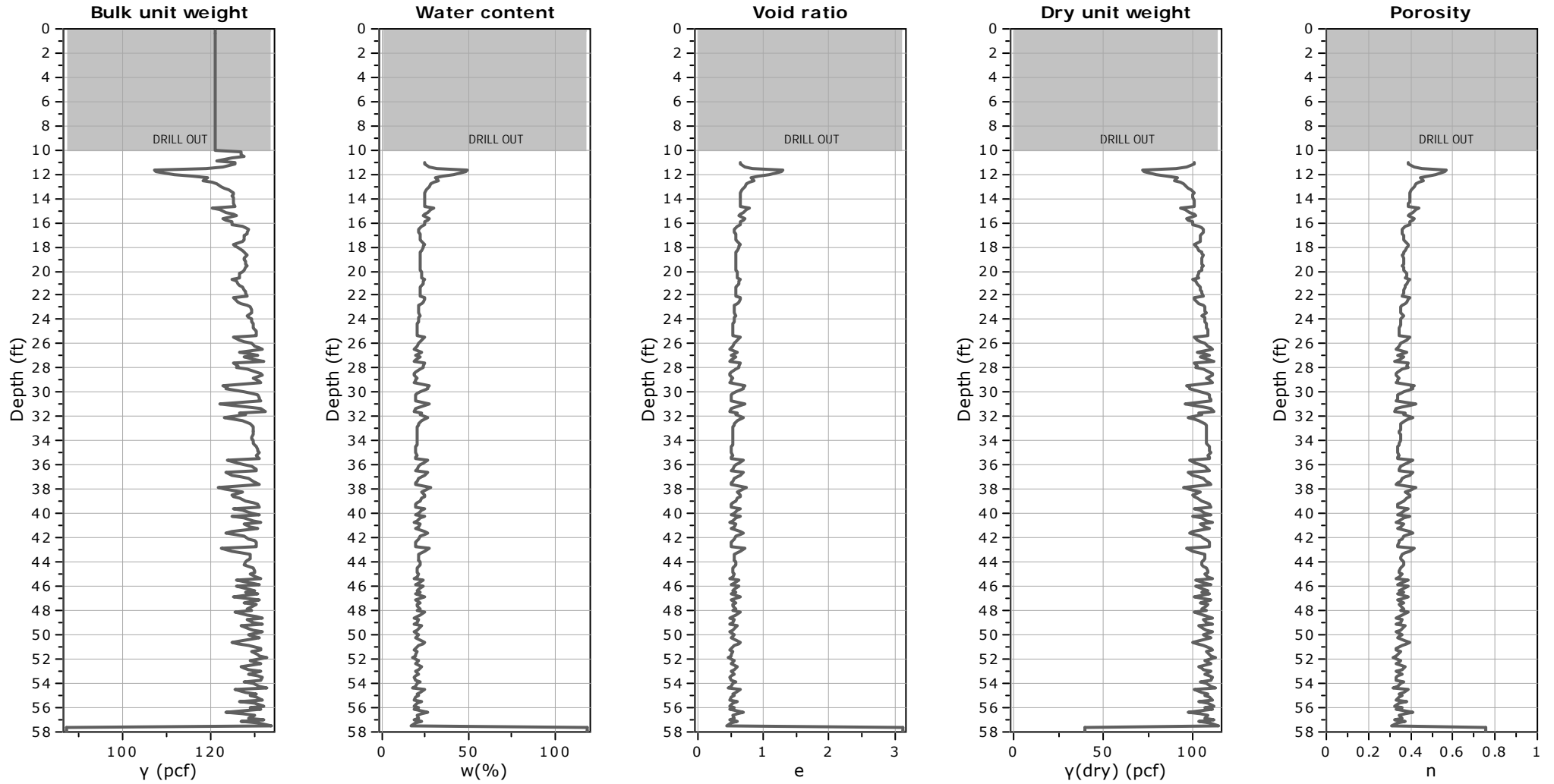
Undrained shear strength cone factor for clays,  $N_{kt}$ : 14

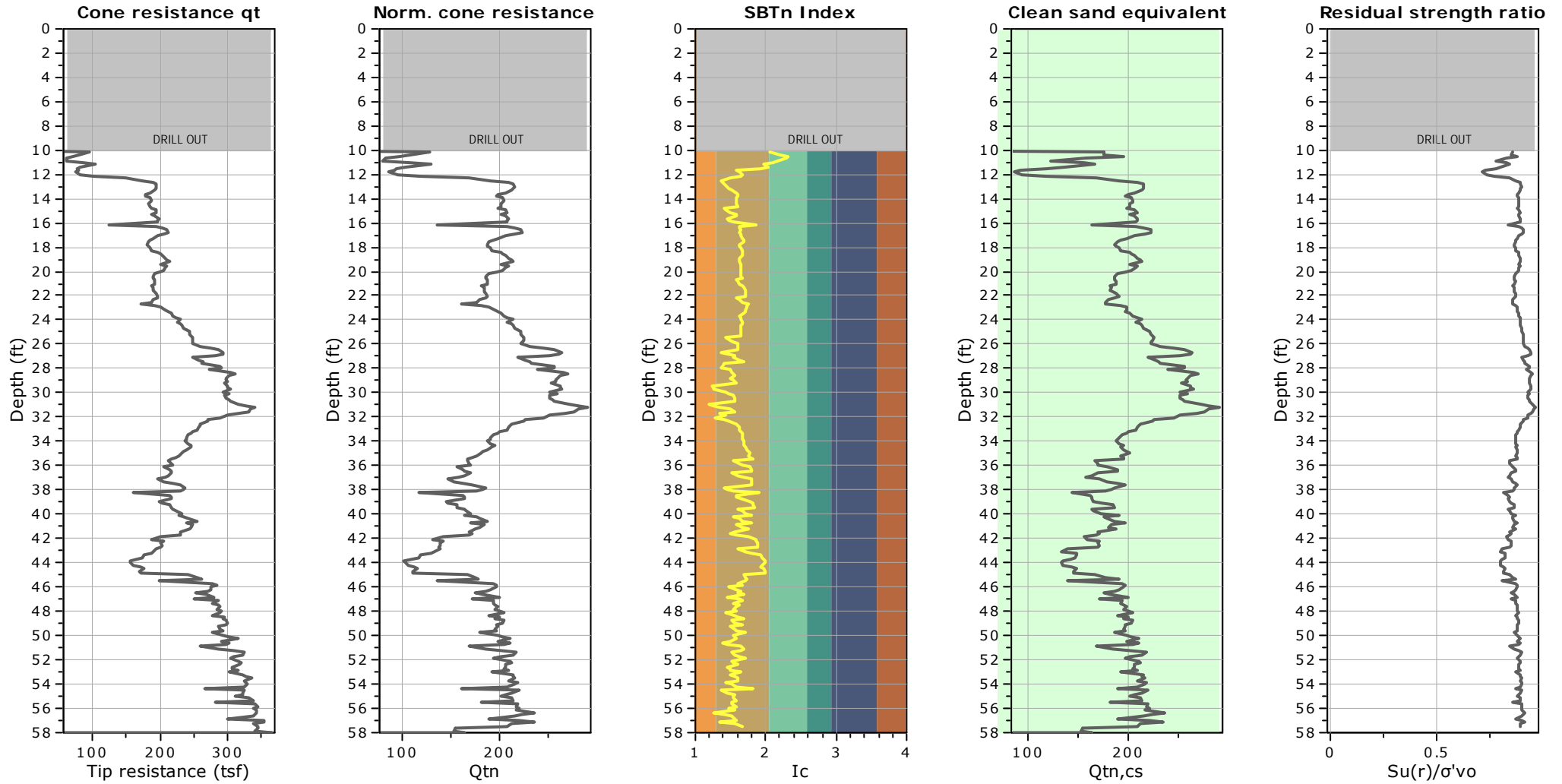
OCR factor for clays,  $N_{kt}$ : 0.33

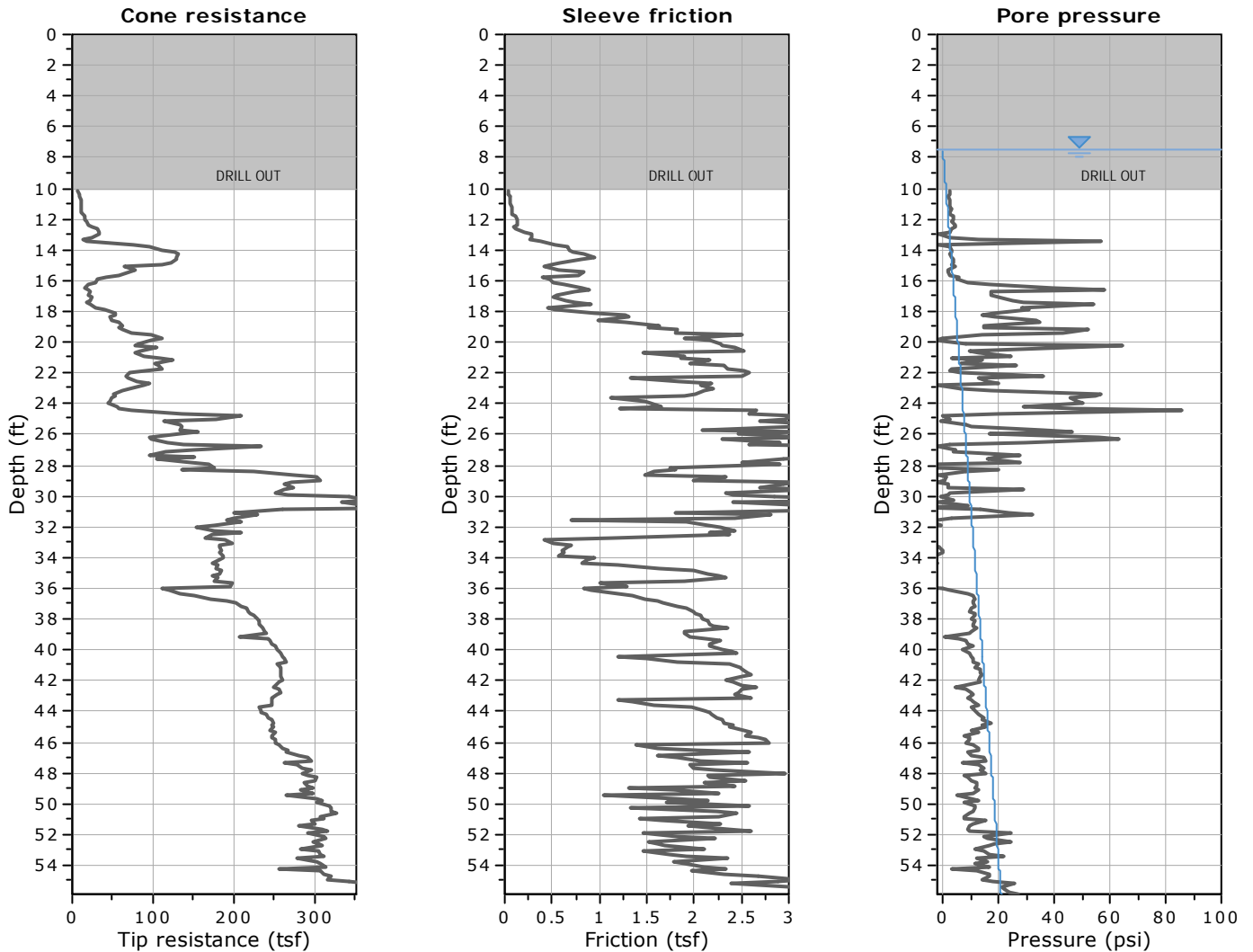
● Flat Dilatometer Test data



**Calculation parameters**  
Soil Sensitivity factor,  $N_s$ : 7.00

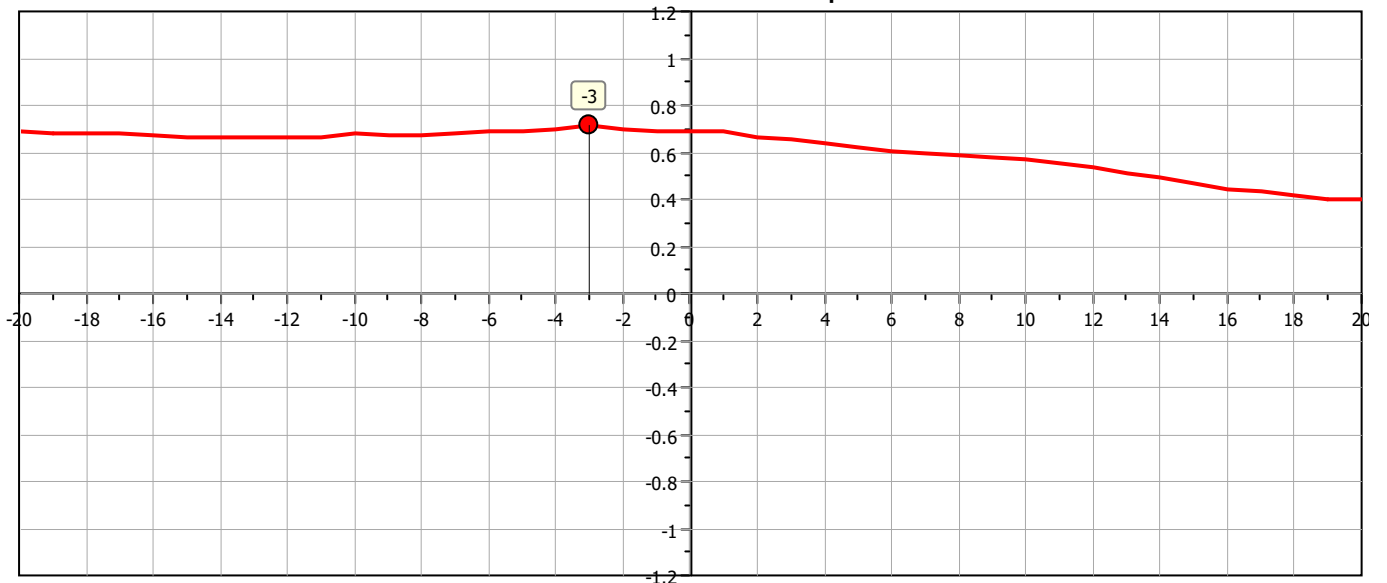






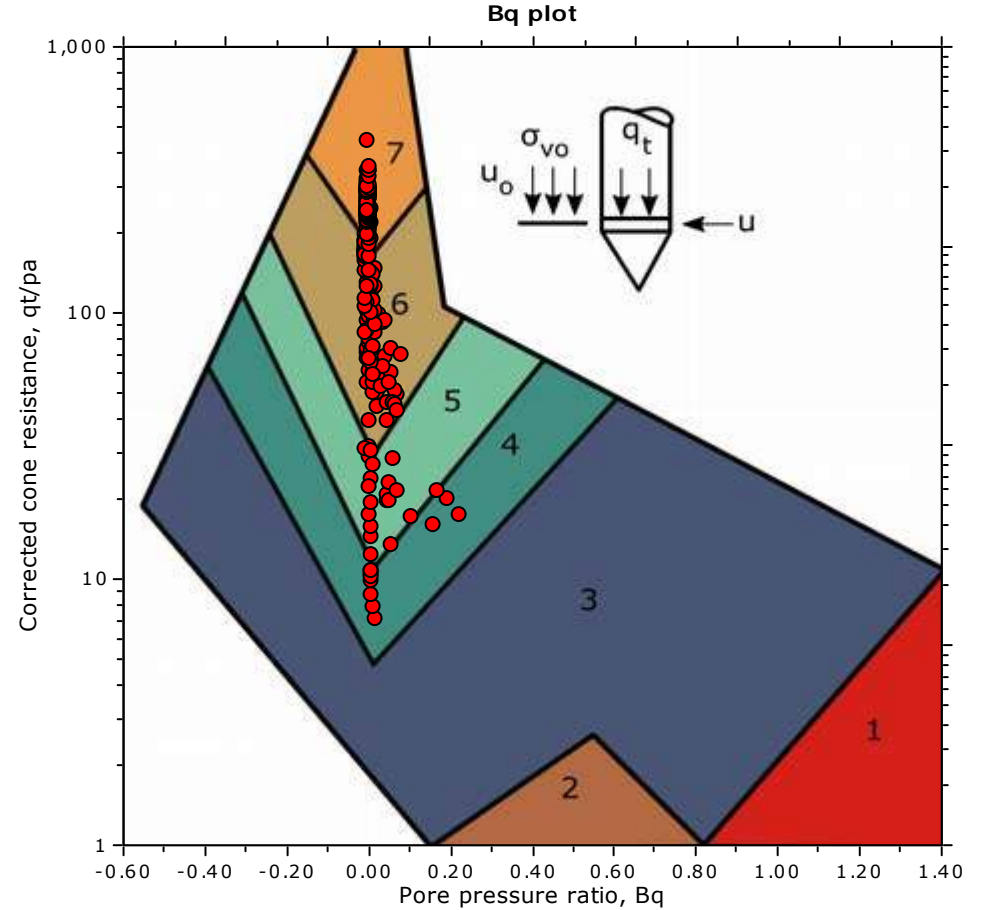
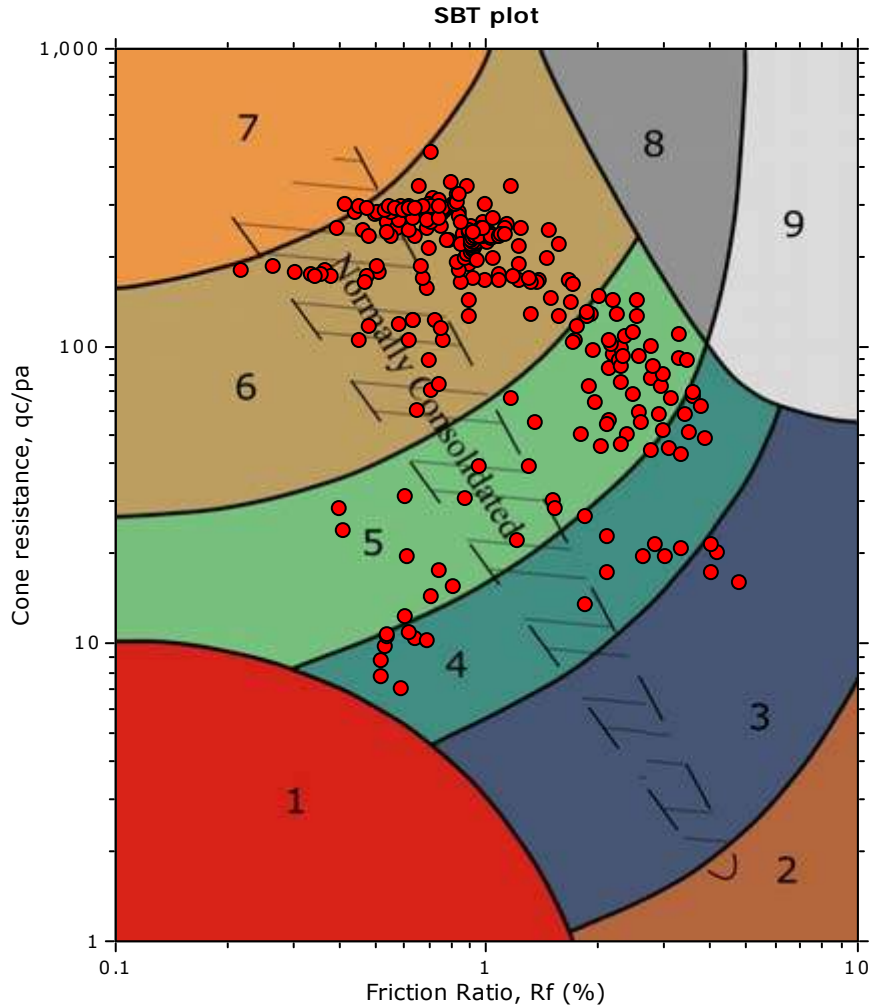
The plot below presents the cross correlation coefficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two successive CPT measurements).

Cross correlation between qc & fs





**SBT - Bq plots**

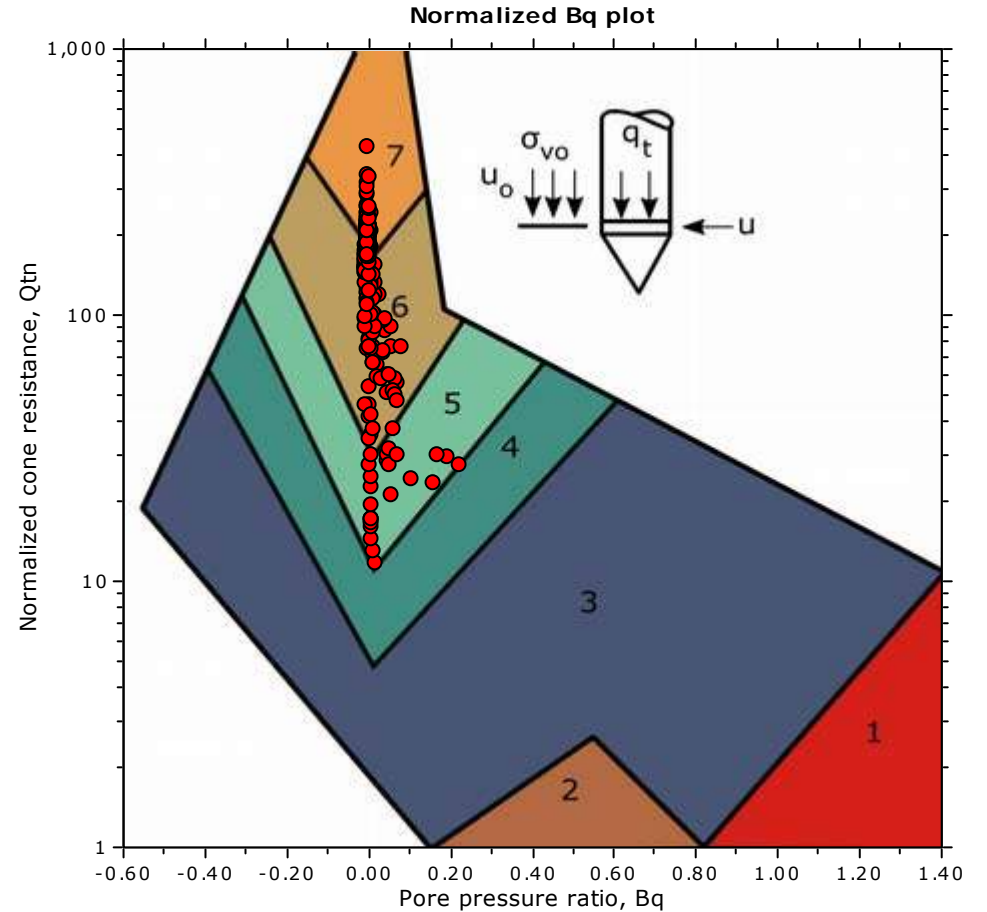
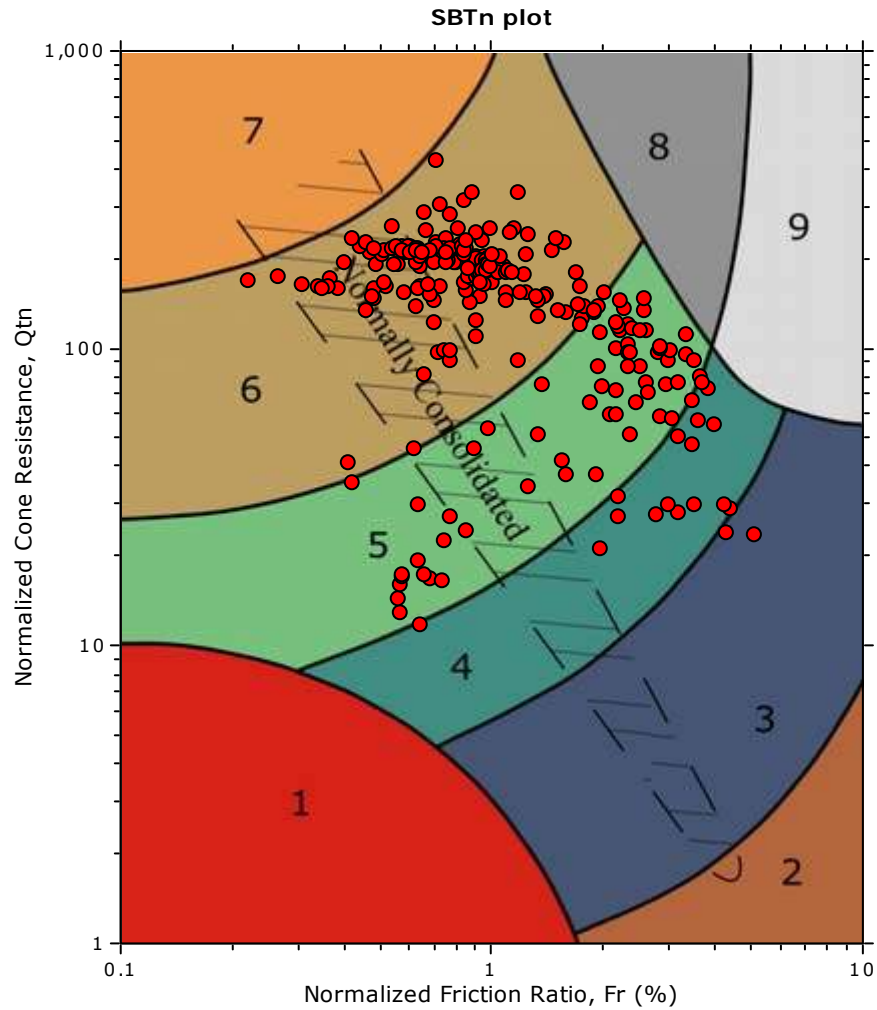


**SBT legend**

- |                           |                              |                                   |
|---------------------------|------------------------------|-----------------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty clay | 7. Gravelly sand to sand          |
| 2. Organic material       | 5. Silty sand to sandy silt  | 8. Very stiff sand to clayey sand |
| 3. Clay to silty clay     | 6. Clean sand to silty sand  | 9. Very stiff fine grained        |



**SBT - Bq plots (normalized)**

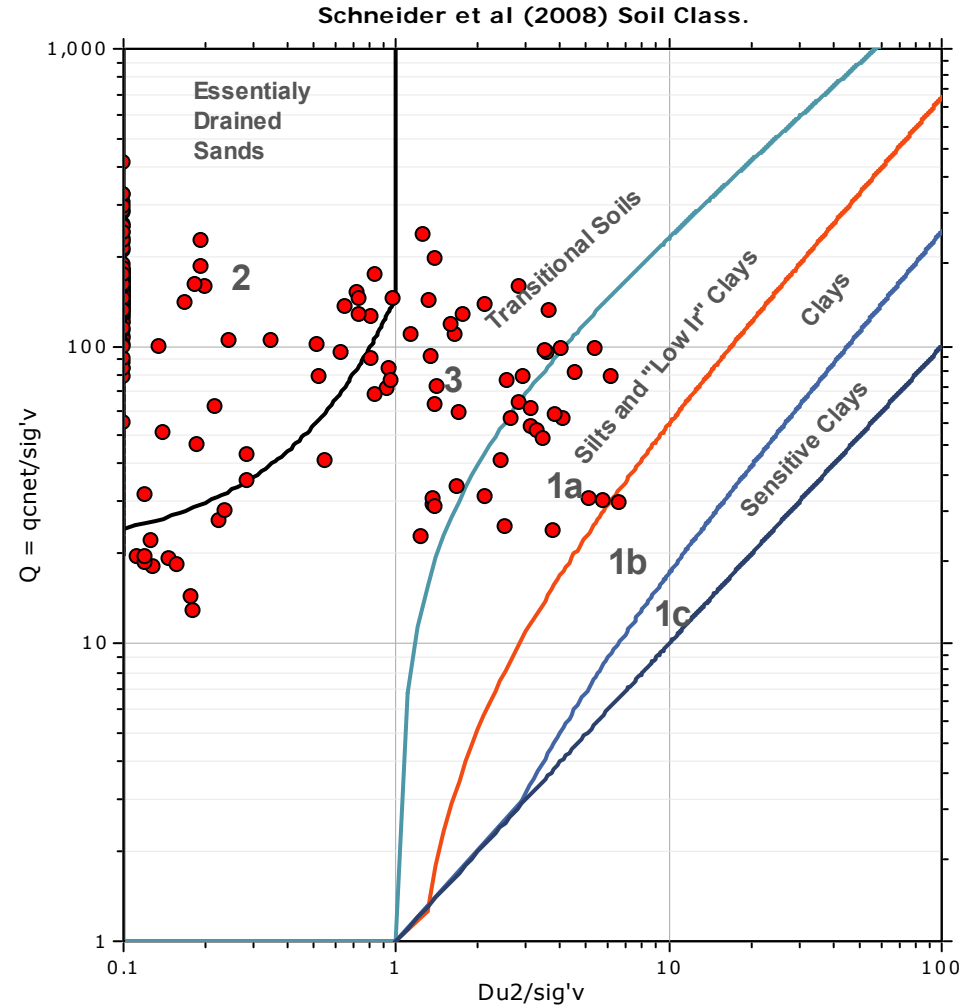
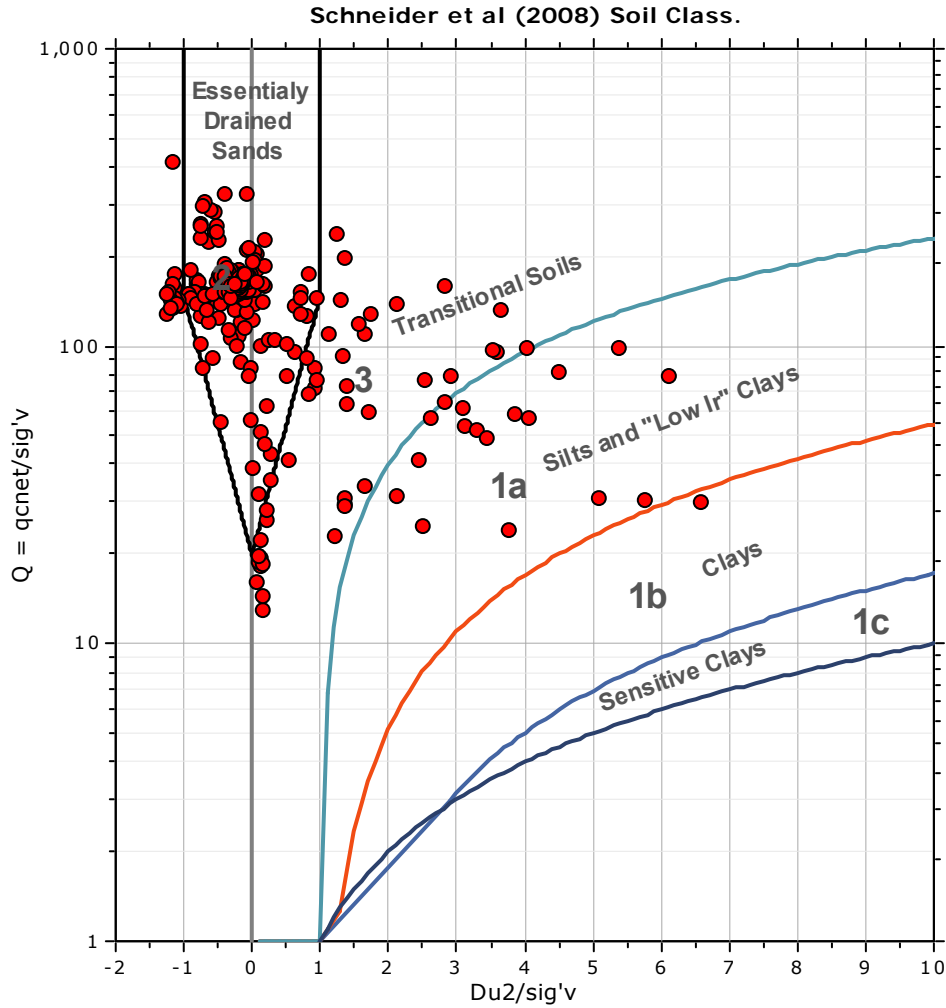


**SBTn legend**

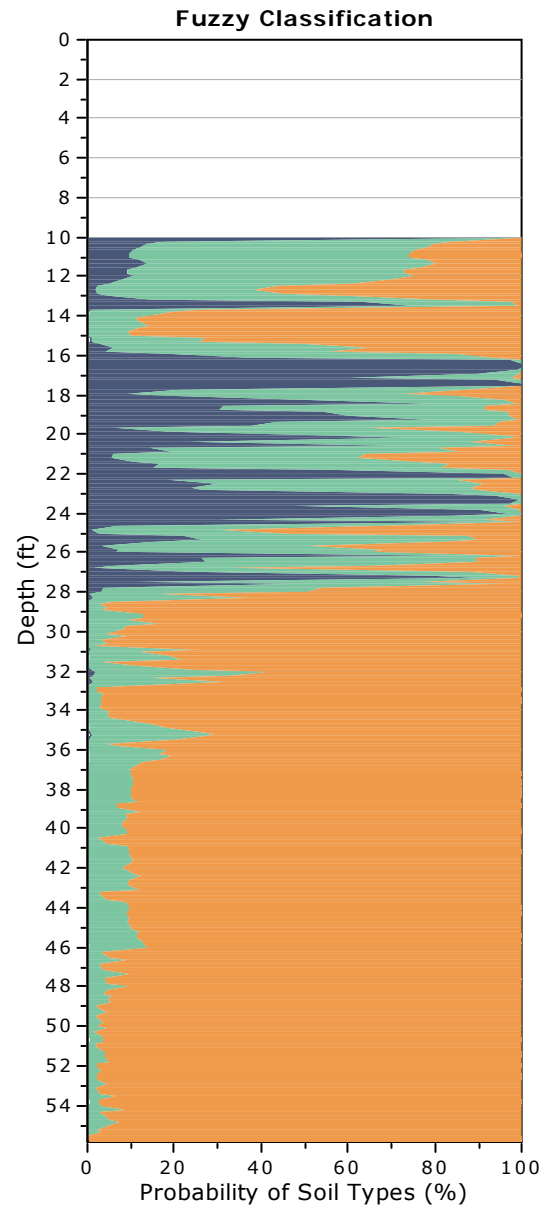
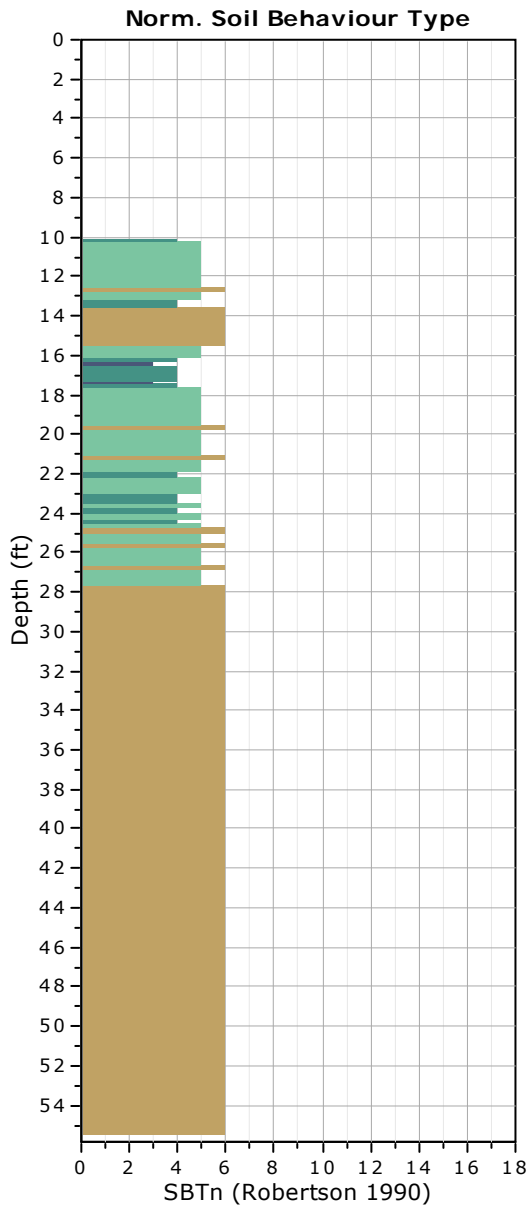
- |                                                              |                                                                       |                                                                       |
|--------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| <span style="color: red;">■</span> 1. Sensitive fine grained | <span style="color: teal;">■</span> 4. Clayey silt to silty clay      | <span style="color: orange;">■</span> 7. Gravelly sand to sand        |
| <span style="color: brown;">■</span> 2. Organic material     | <span style="color: lightgreen;">■</span> 5. Silty sand to sandy silt | <span style="color: grey;">■</span> 8. Very stiff sand to clayey sand |
| <span style="color: blue;">■</span> 3. Clay to silty clay    | <span style="color: tan;">■</span> 6. Clean sand to silty sand        | <span style="color: lightgrey;">■</span> 9. Very stiff fine grained   |



### Bq plots (Schneider)

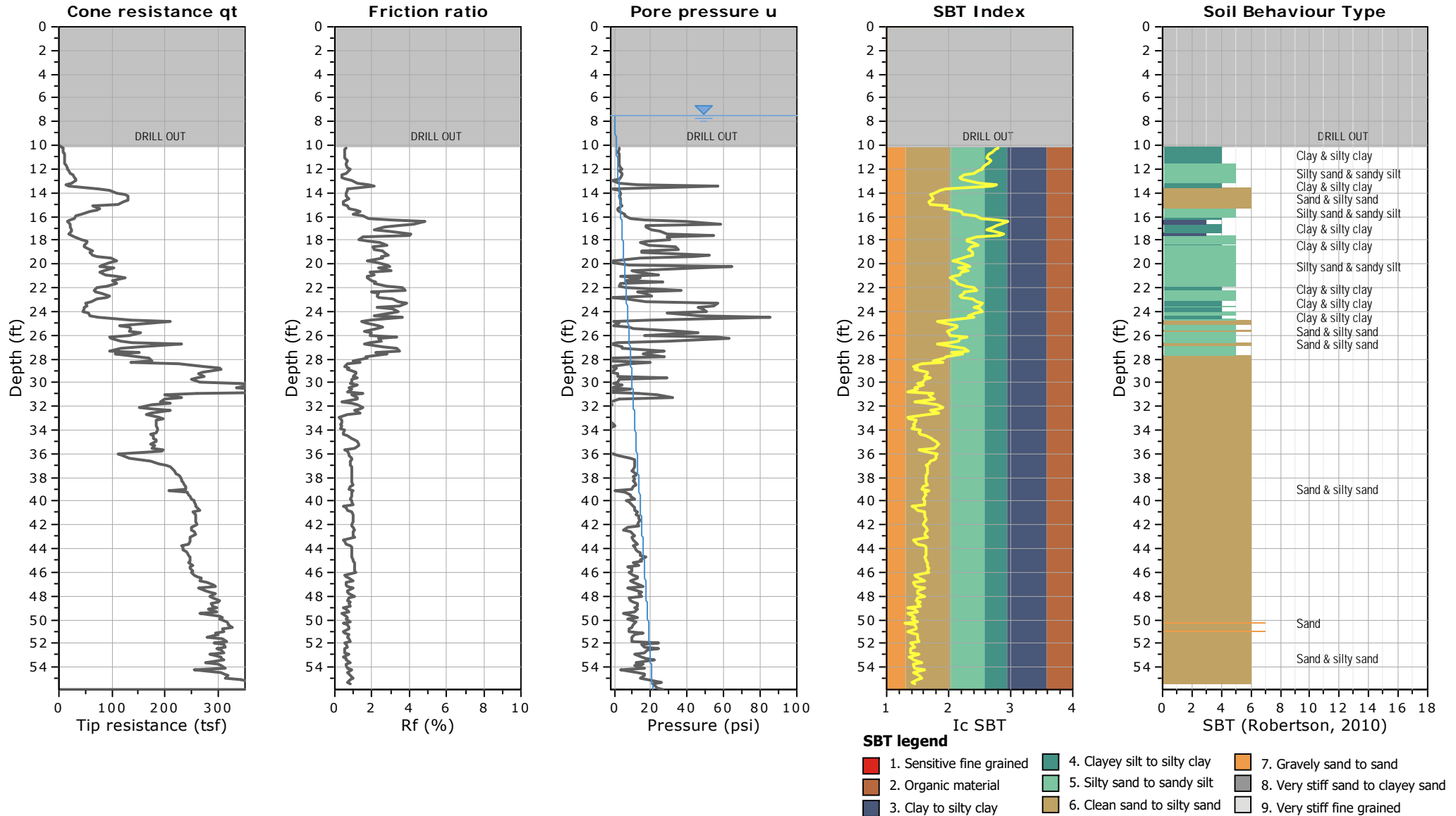


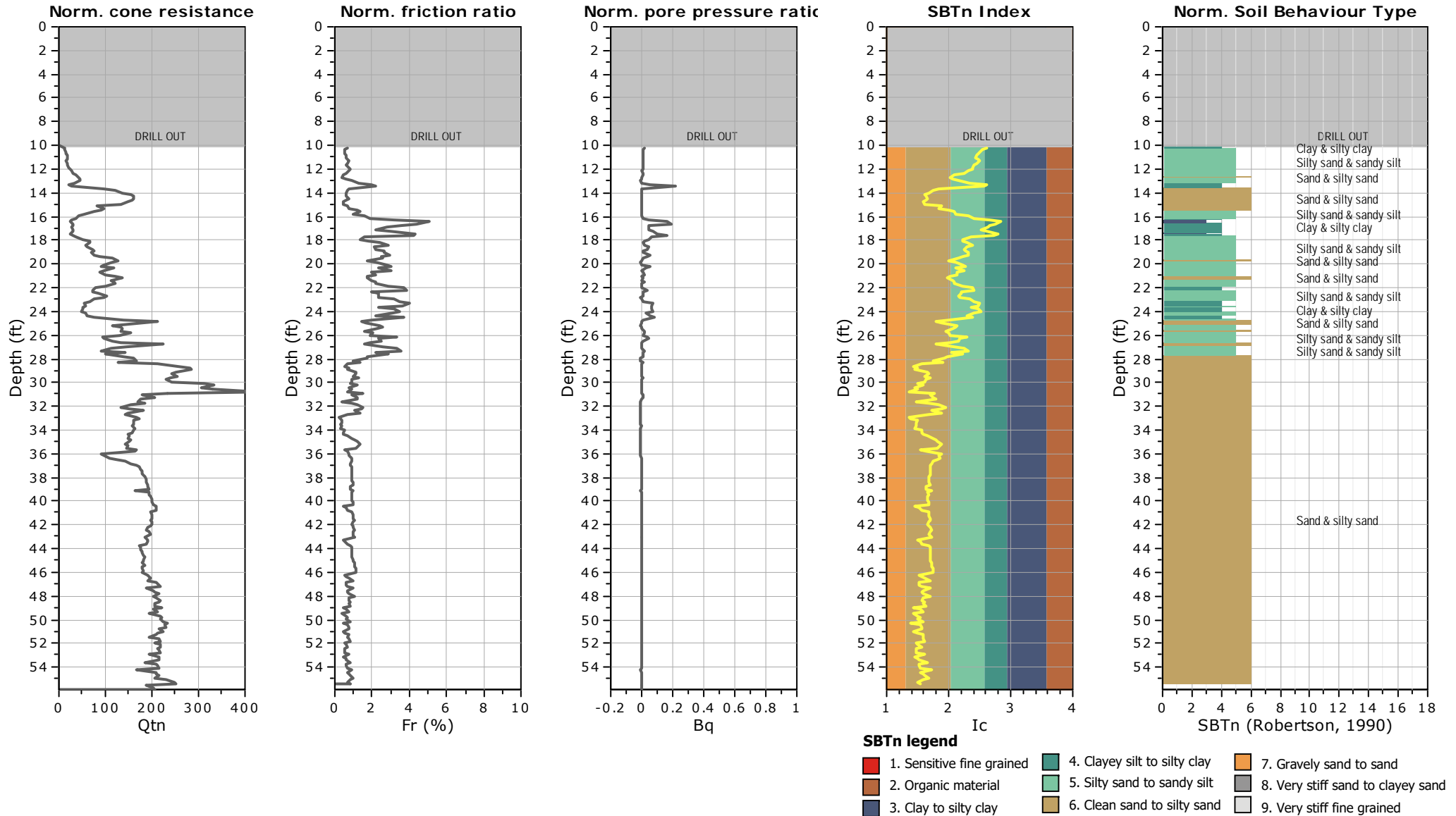


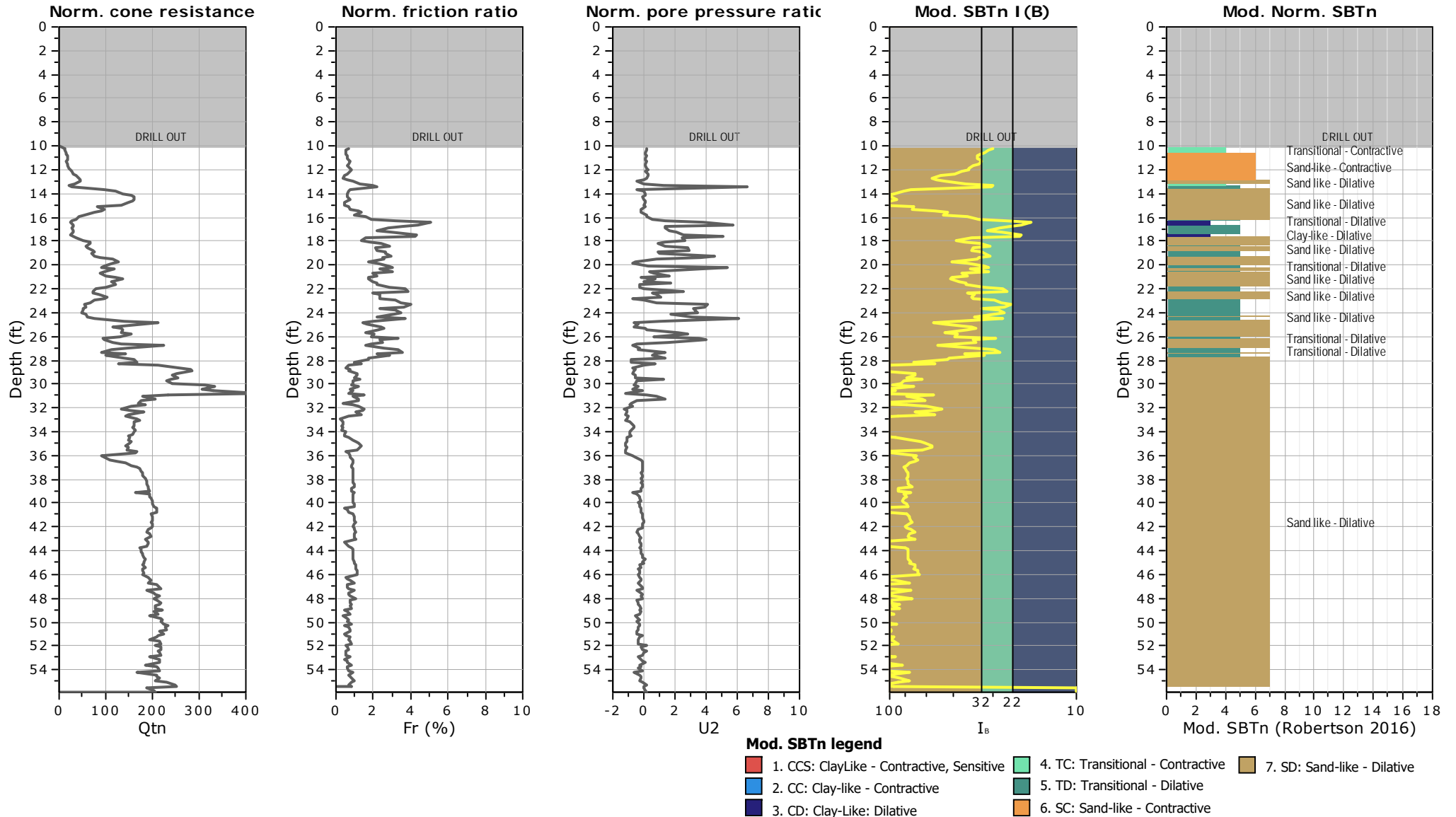


**Fuzzy classification legend**

- Highly probable clayey soil
- Highly probable mixture soil
- Highly probable sandy soil

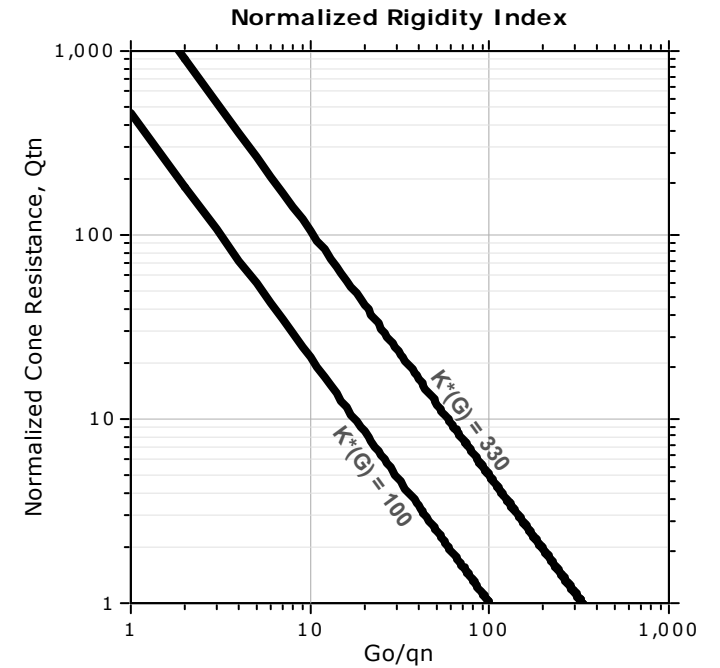
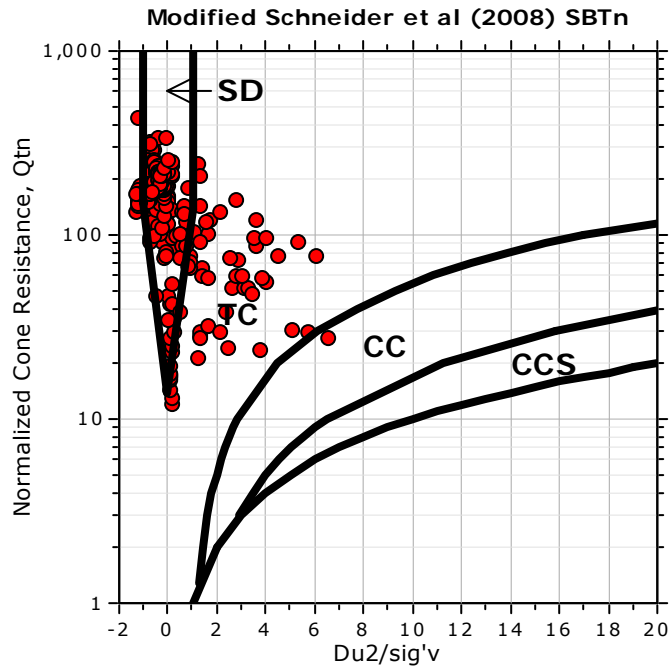
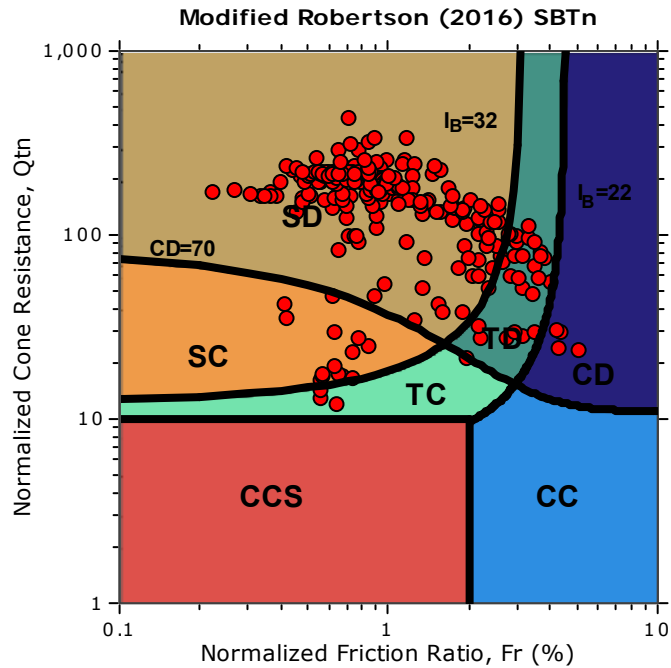






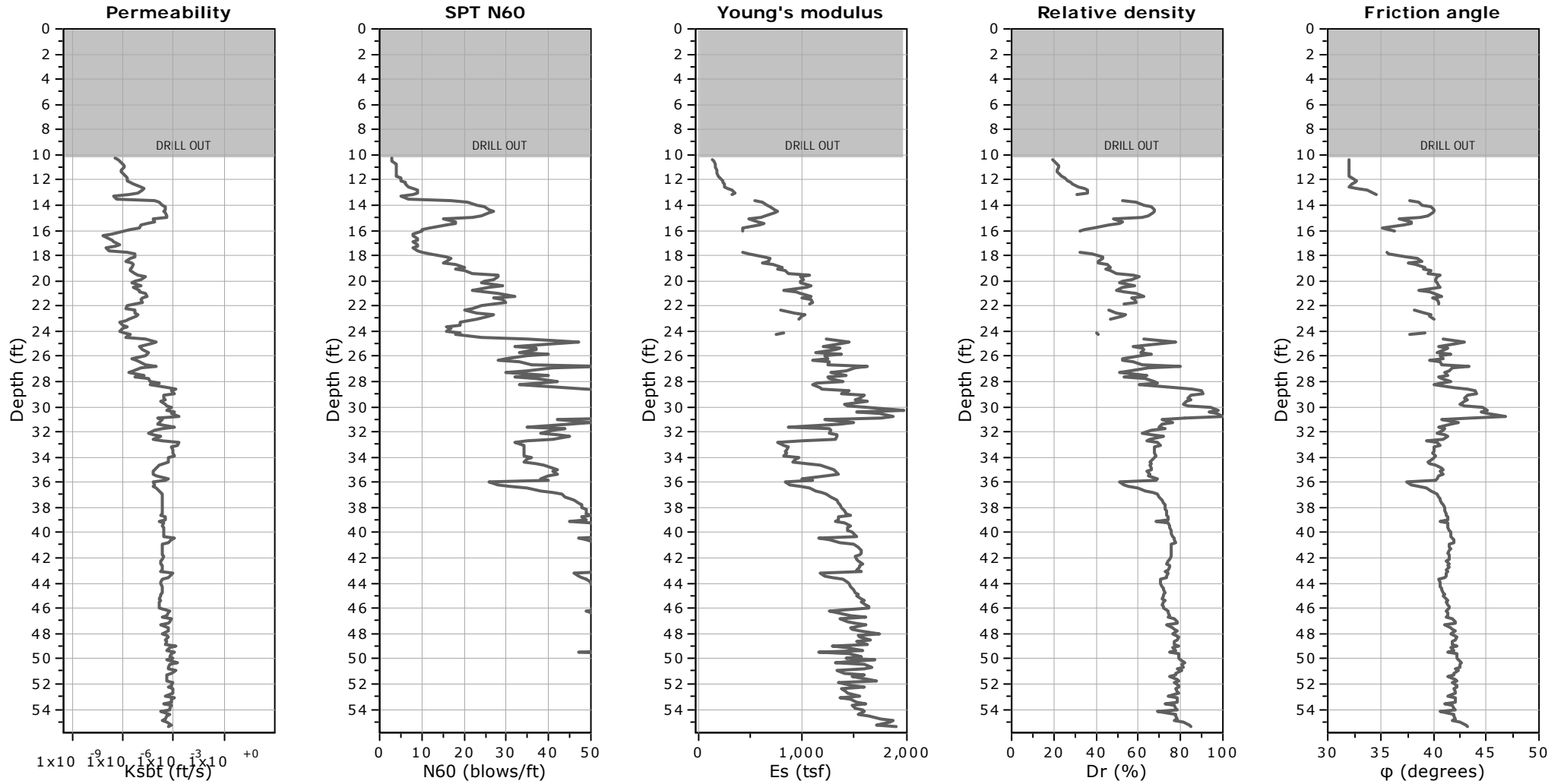


**Updated SBTn plots**



- CCS: Clay-like - Contractive - Sensitive
- CC: Clay-like - Contractive
- CD: Clay-like - Dilative
- TC: Transitional - Contractive
- TD: Transitional - Dilative
- SC: Sand-like - Contractive
- SD: Sand-like - Dilative

$K^*(G) > 330$ : Soils with significant microstructure (e.g. age/cementation)



**Calculation parameters**

Permeability: Based on  $SBT_n$

SPT  $N_{60}$ : Based on  $I_c$  and  $q_t$

Young's modulus: Based on variable alpha using  $I_c$  (Robertson, 2009)

Relative density constant,  $C_{Dr}$ : 350.0

Phi: Based on Kulhawy & Mayne (1990)

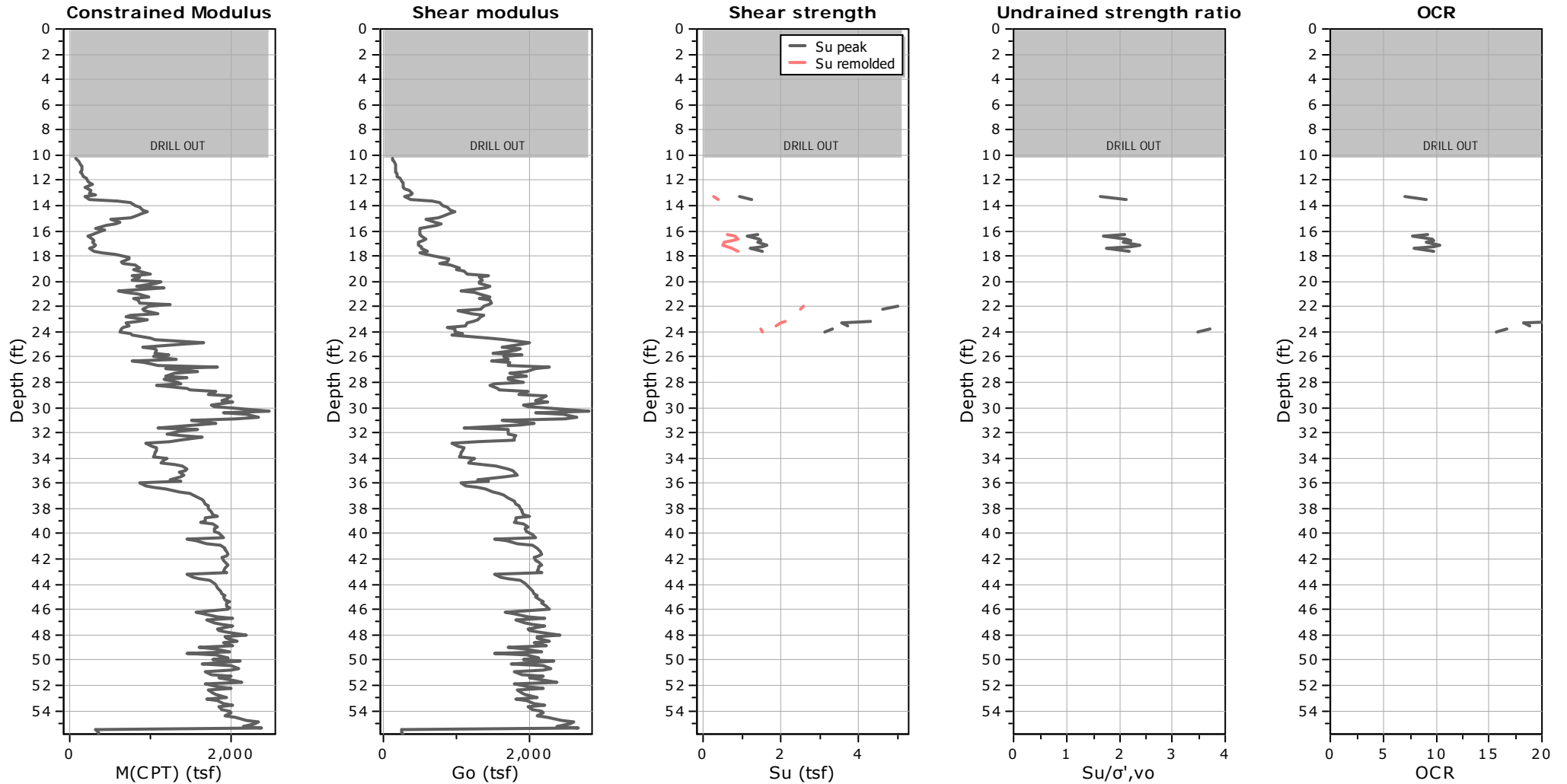


**Project: Langan**

**Location: 145 Wolcott St, Brooklyn NY**

**CPT-3**

Total depth: 55.87 ft



**Calculation parameters**

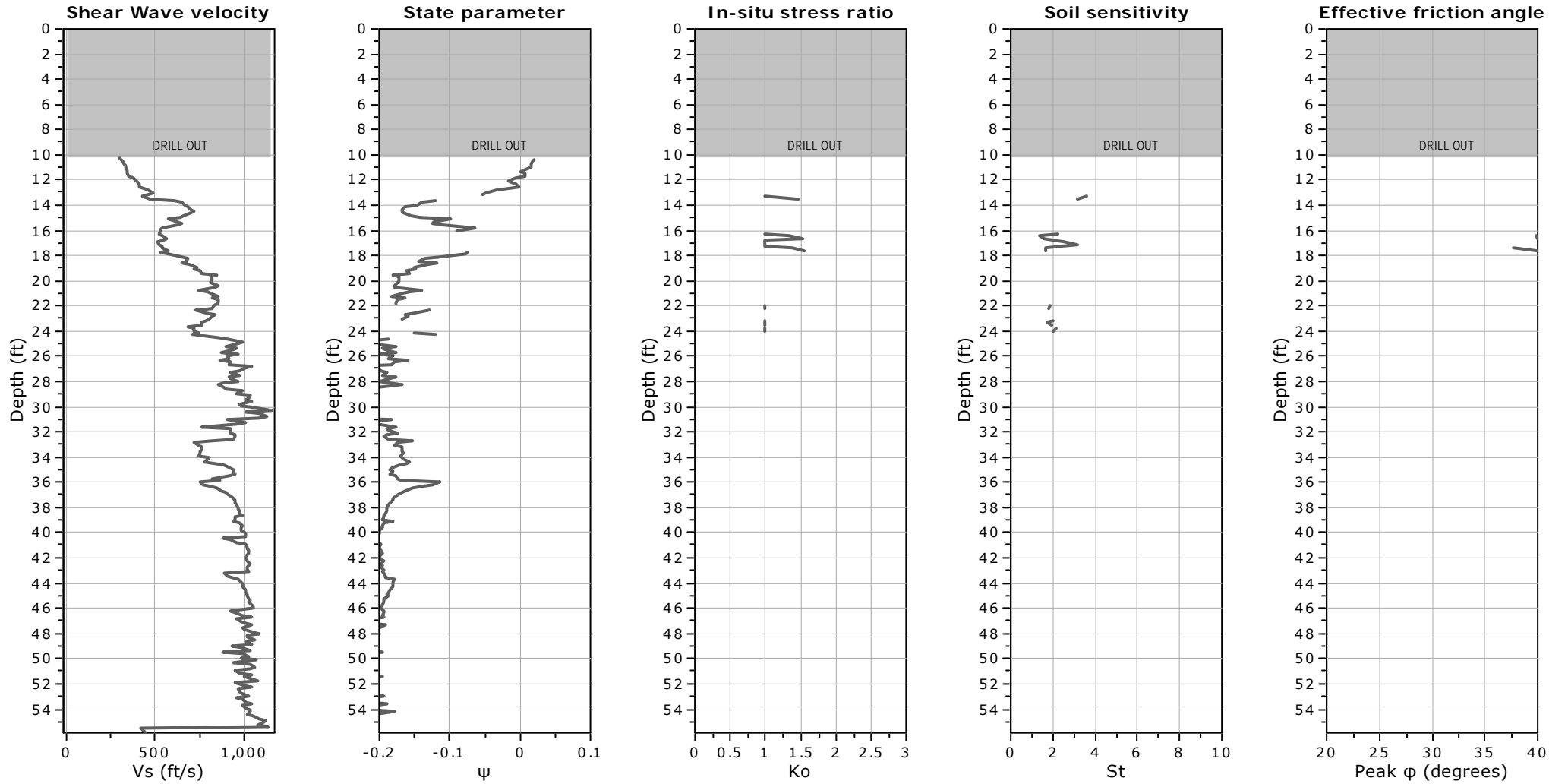
Constrained modulus: Based on variable  $\alpha$  using  $I_c$  and  $Q_{tn}$  (Robertson, 2009)

Go: Based on variable  $\alpha$  using  $I_c$  (Robertson, 2009)

Undrained shear strength cone factor for clays,  $N_{kt}$ : 14

OCR factor for clays,  $N_{kt}$ : 0.33

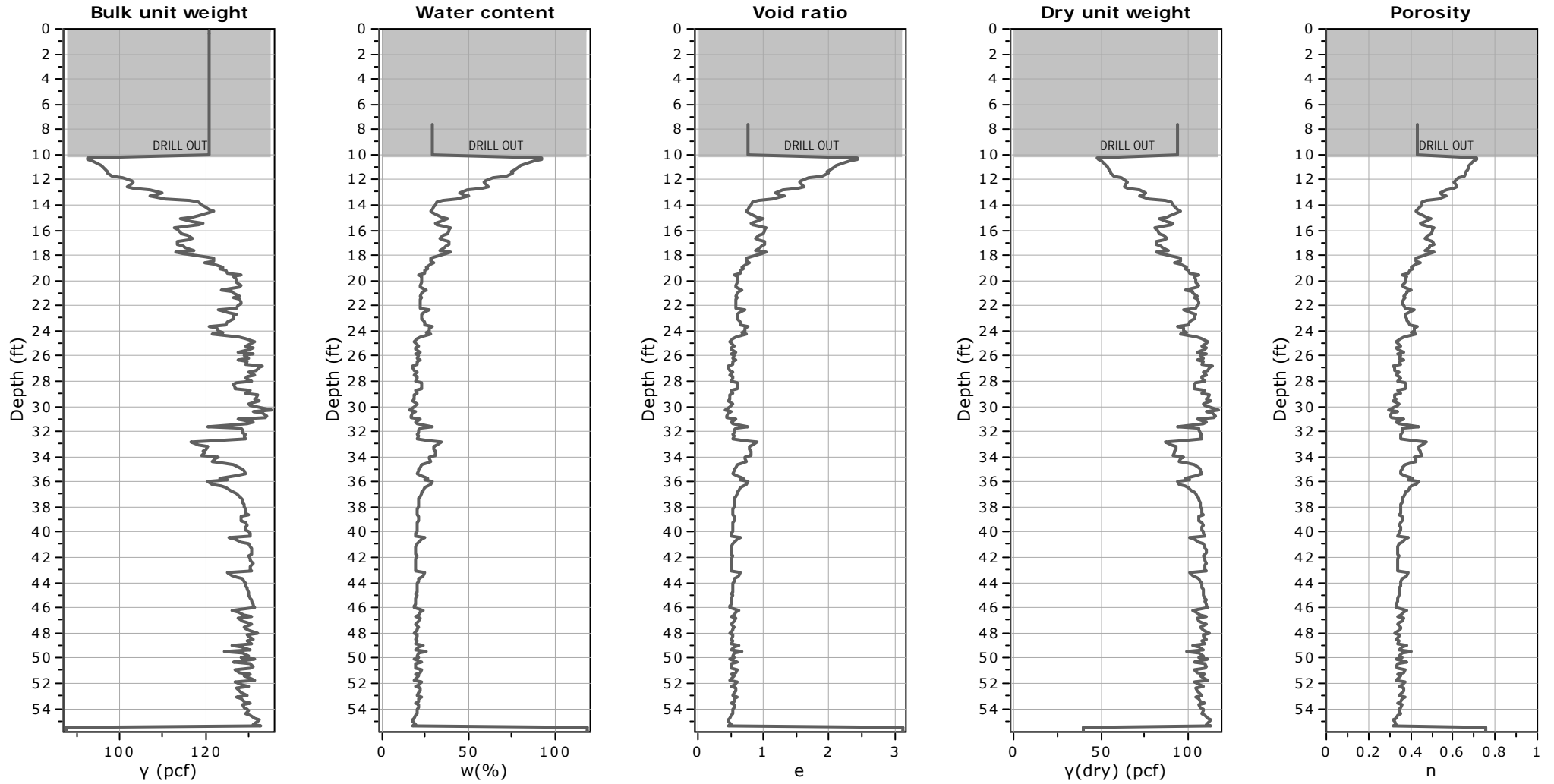
● Flat Dilatometer Test data

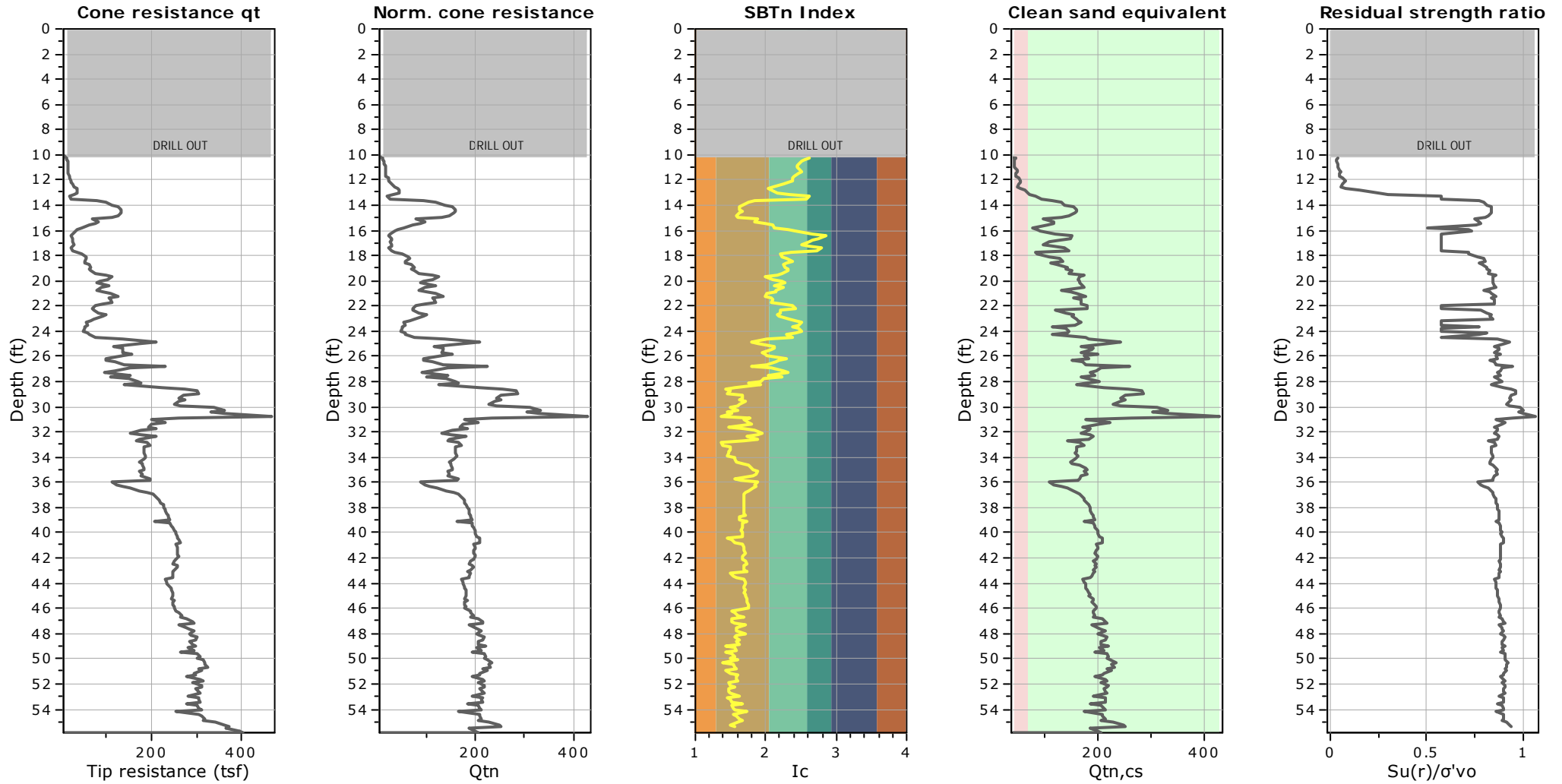


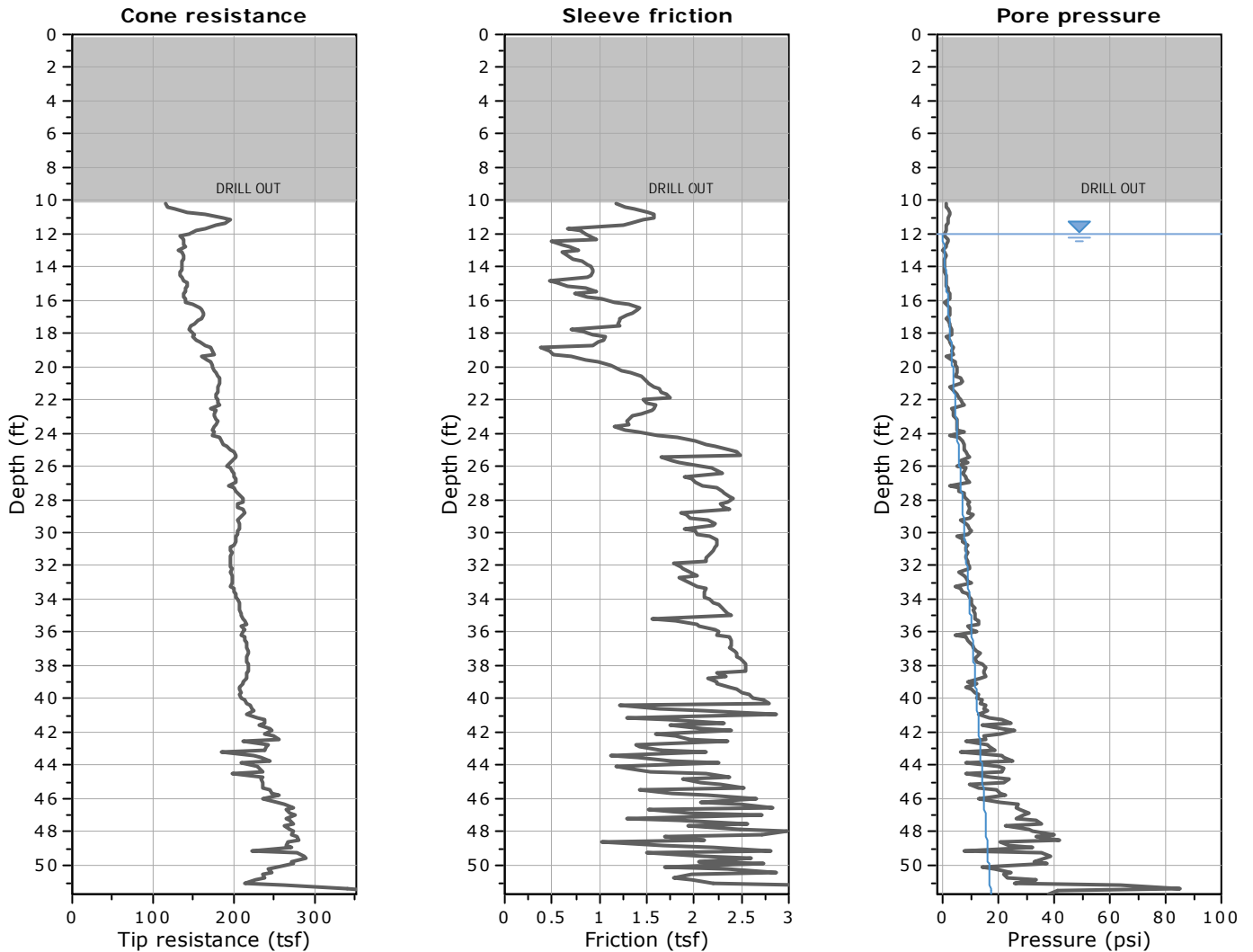
**Calculation parameters**

Soil Sensitivity factor,  $N_s$ : 7.00



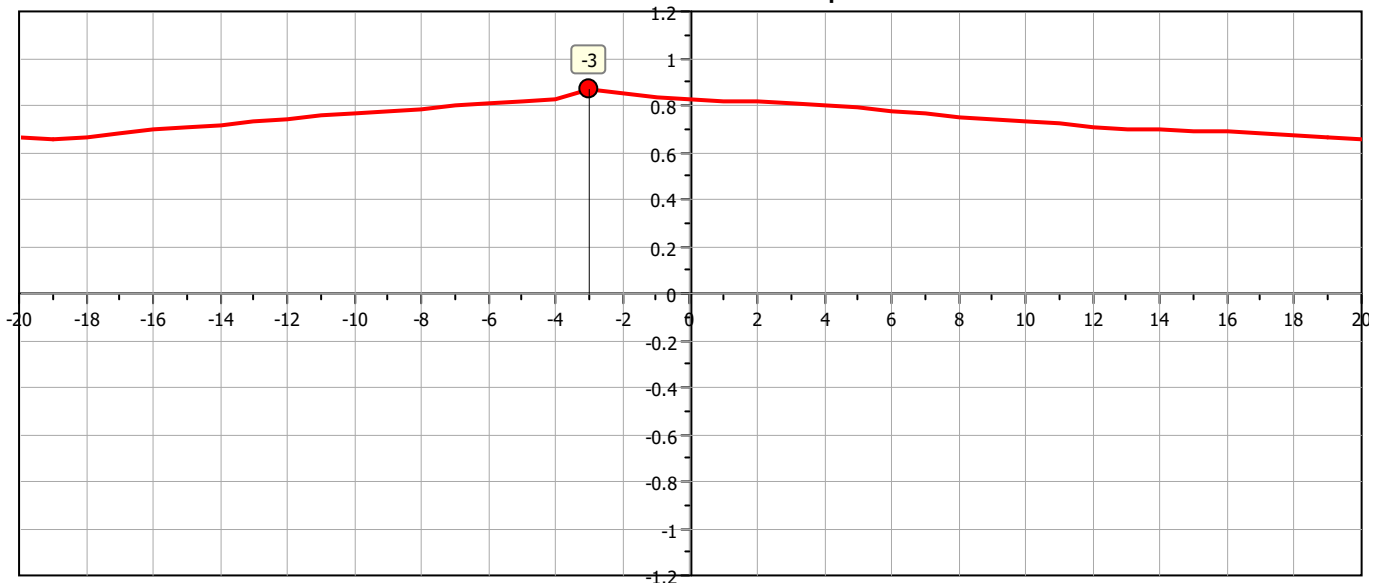






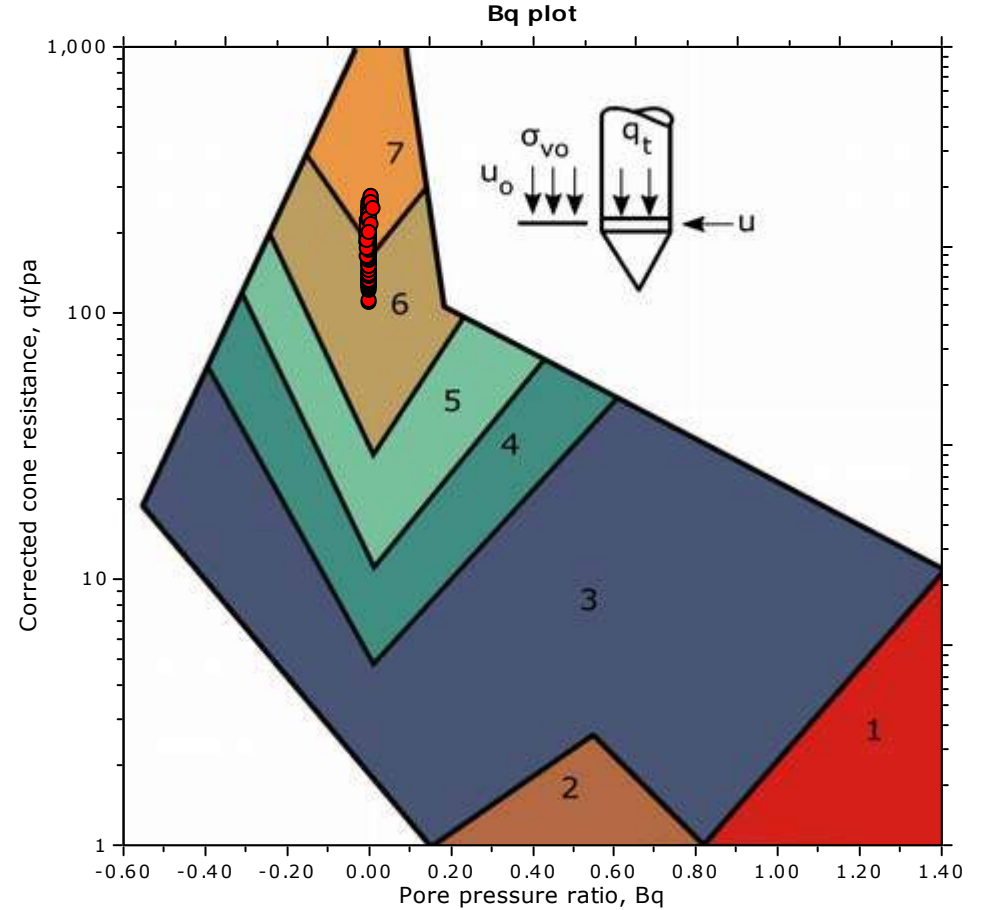
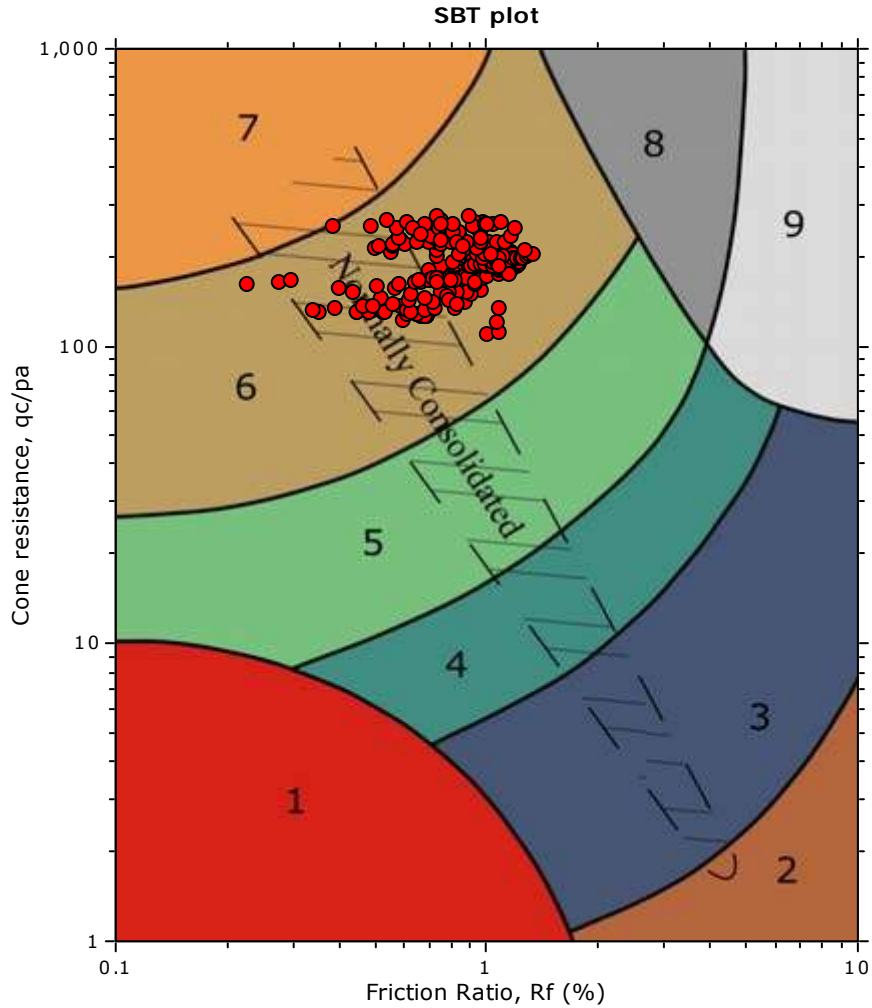
The plot below presents the cross correlation coefficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two successive CPT measurements).

Cross correlation between qc & fs





**SBT - Bq plots**

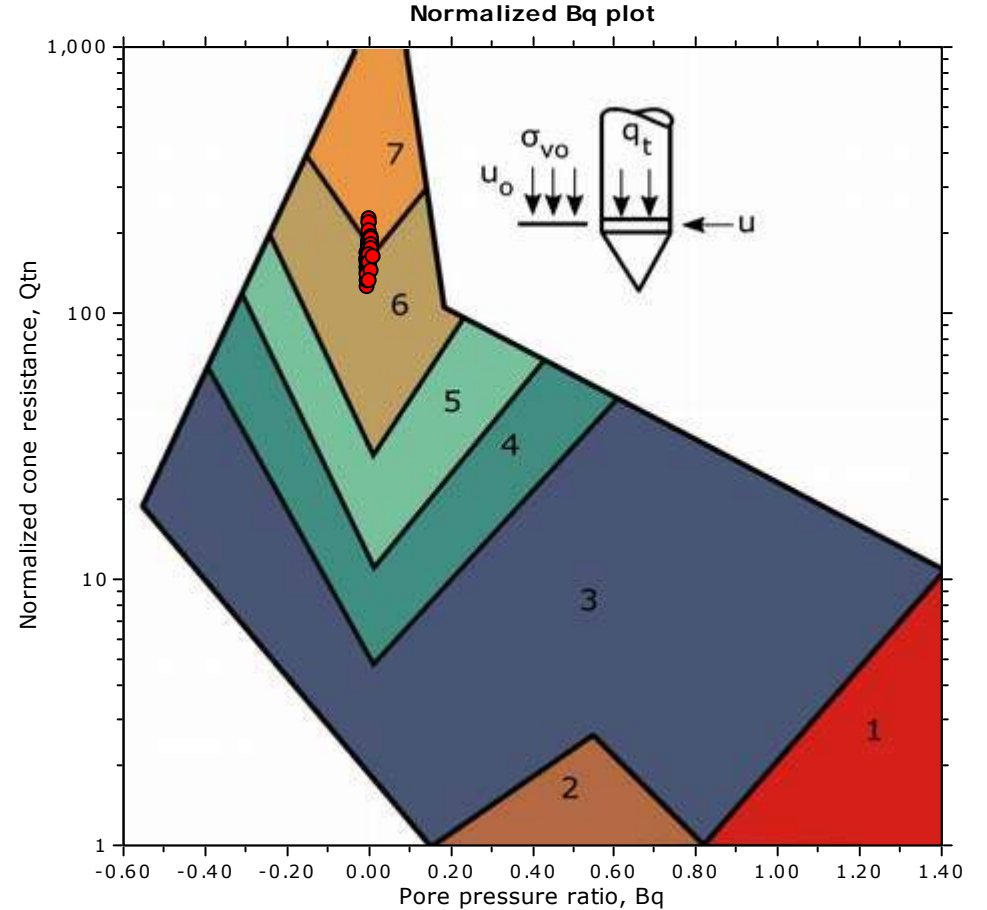
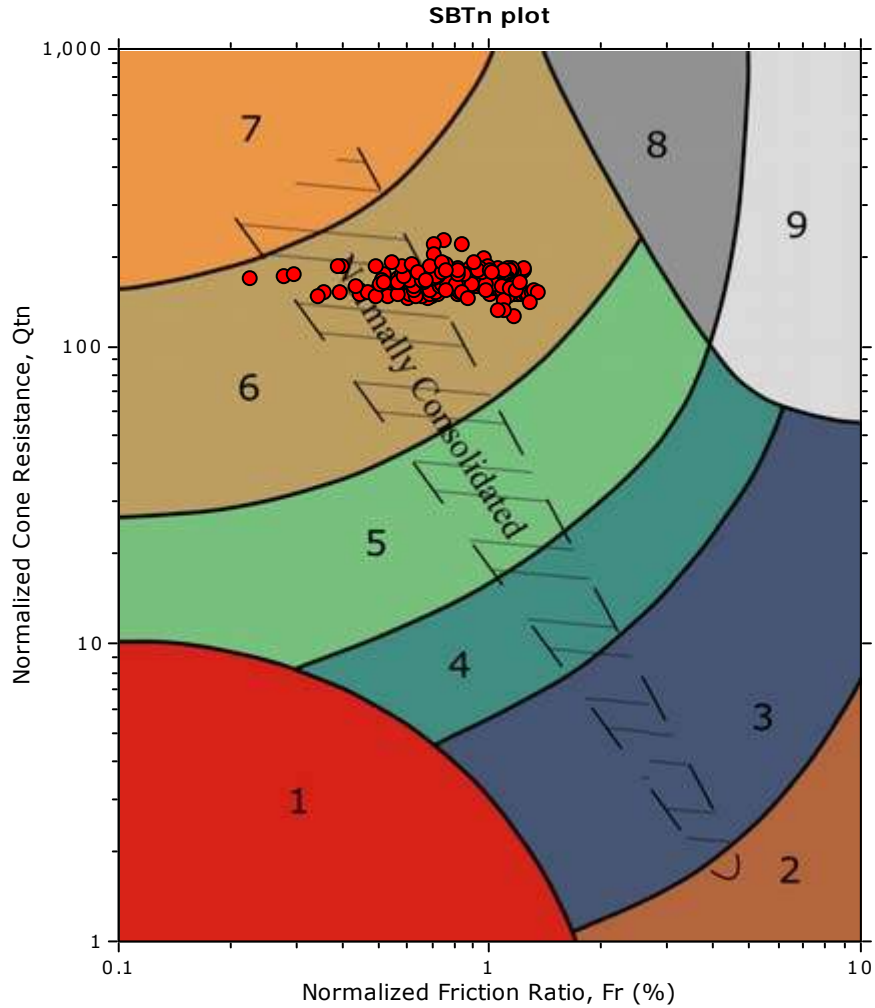


**SBT legend**

- |                           |                              |                                   |
|---------------------------|------------------------------|-----------------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty clay | 7. Gravelly sand to sand          |
| 2. Organic material       | 5. Silty sand to sandy silt  | 8. Very stiff sand to clayey sand |
| 3. Clay to silty clay     | 6. Clean sand to silty sand  | 9. Very stiff fine grained        |



**SBT - Bq plots (normalized)**

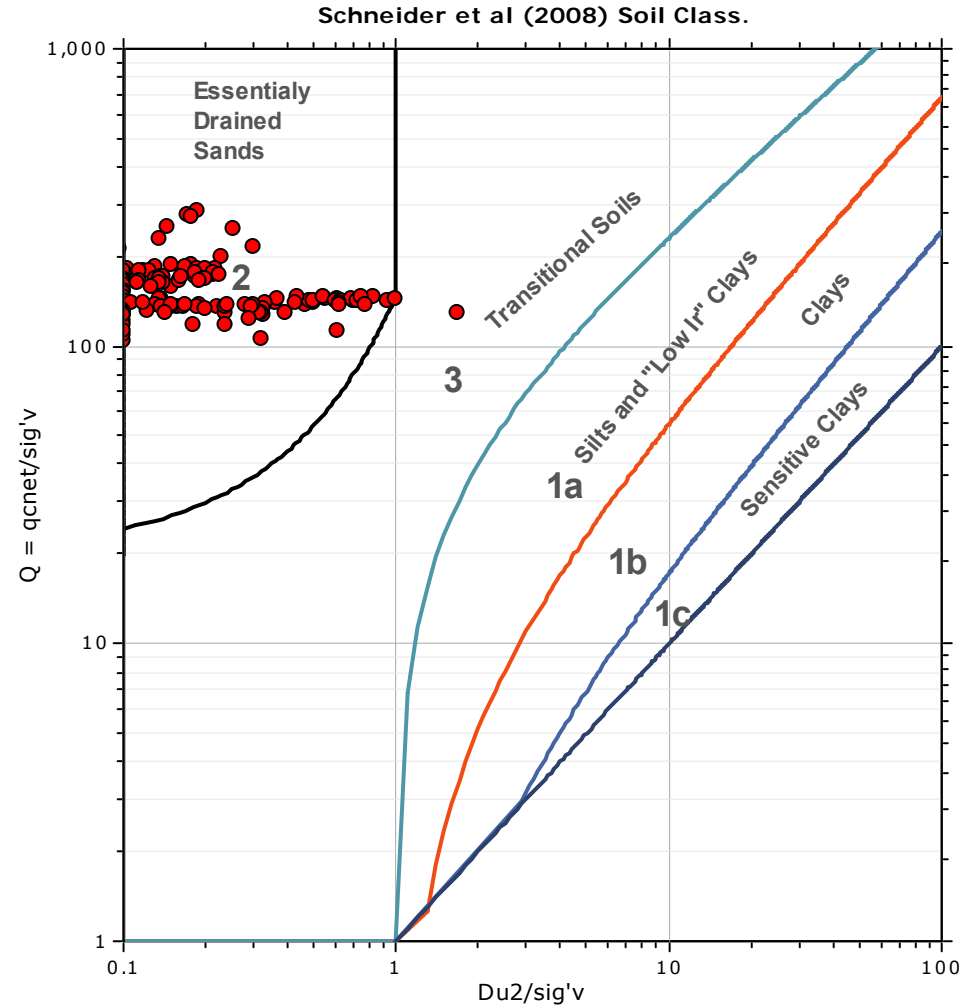
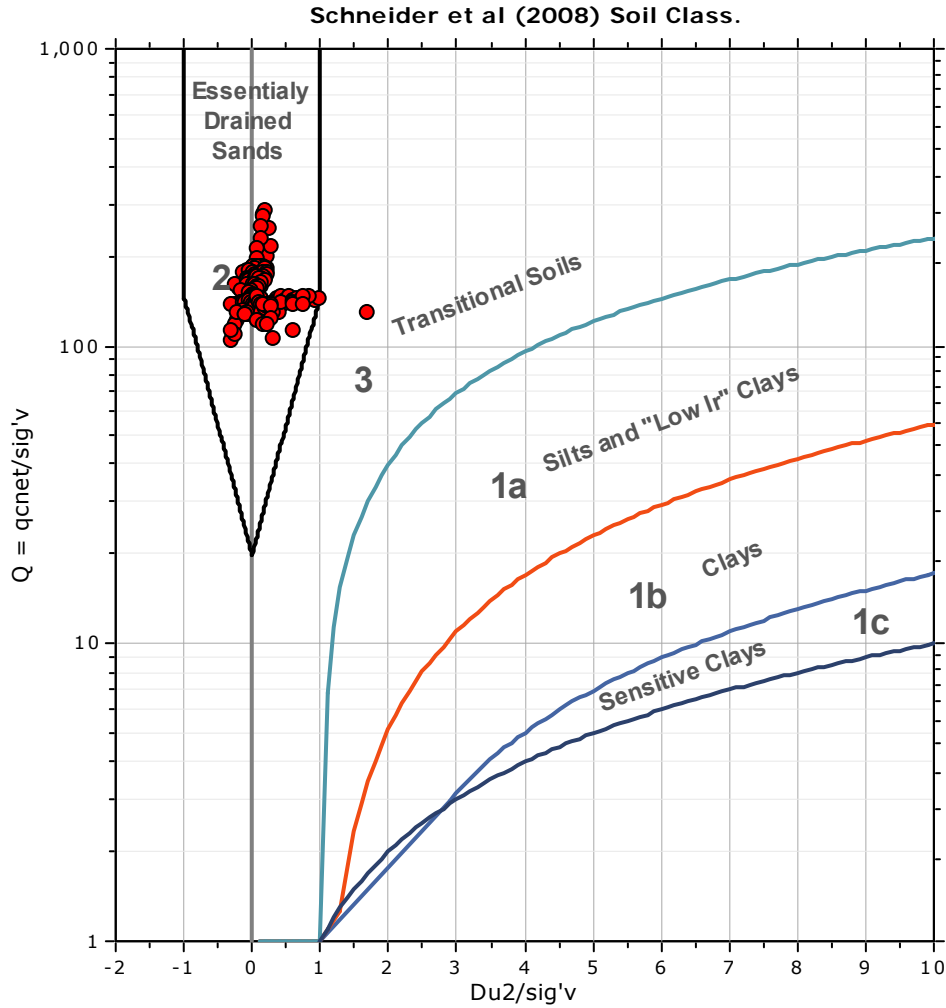


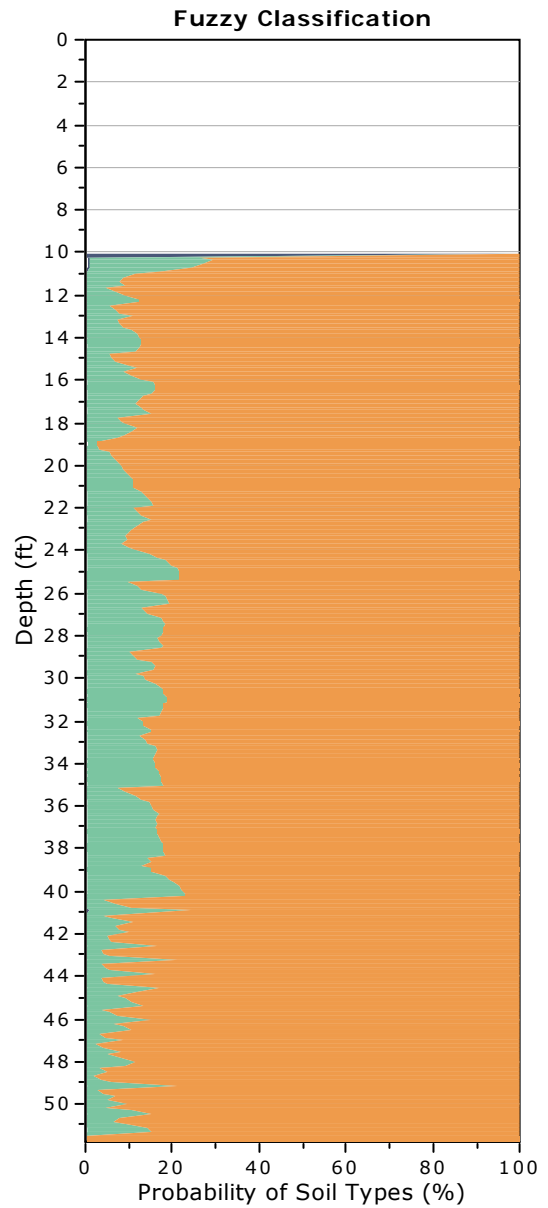
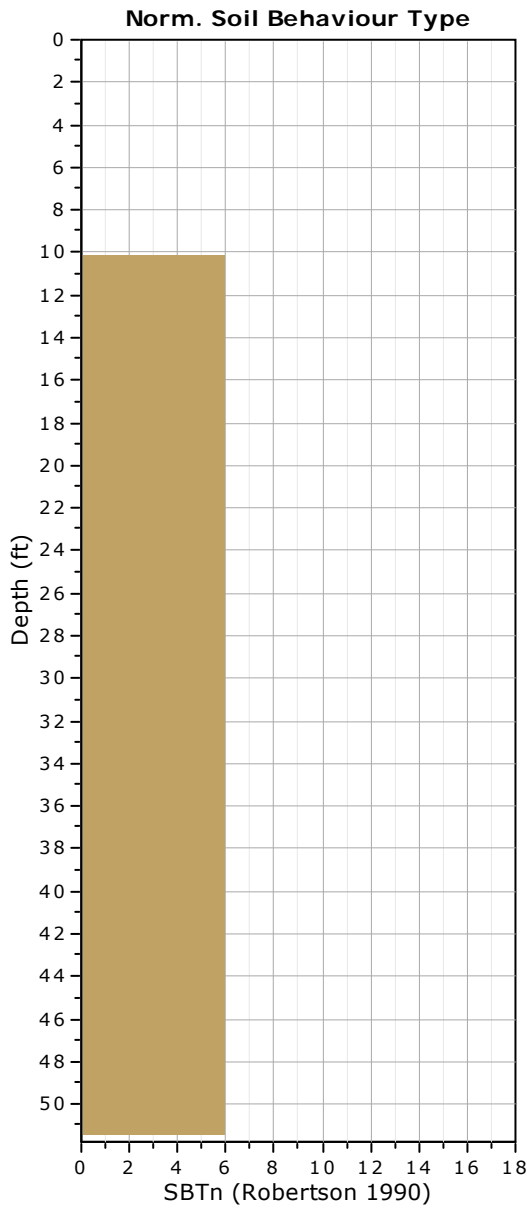
**SBTn legend**

- |                                                              |                                                                       |                                                                       |
|--------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| <span style="color: red;">■</span> 1. Sensitive fine grained | <span style="color: teal;">■</span> 4. Clayey silt to silty clay      | <span style="color: orange;">■</span> 7. Gravelly sand to sand        |
| <span style="color: brown;">■</span> 2. Organic material     | <span style="color: lightgreen;">■</span> 5. Silty sand to sandy silt | <span style="color: grey;">■</span> 8. Very stiff sand to clayey sand |
| <span style="color: blue;">■</span> 3. Clay to silty clay    | <span style="color: tan;">■</span> 6. Clean sand to silty sand        | <span style="color: lightgrey;">■</span> 9. Very stiff fine grained   |



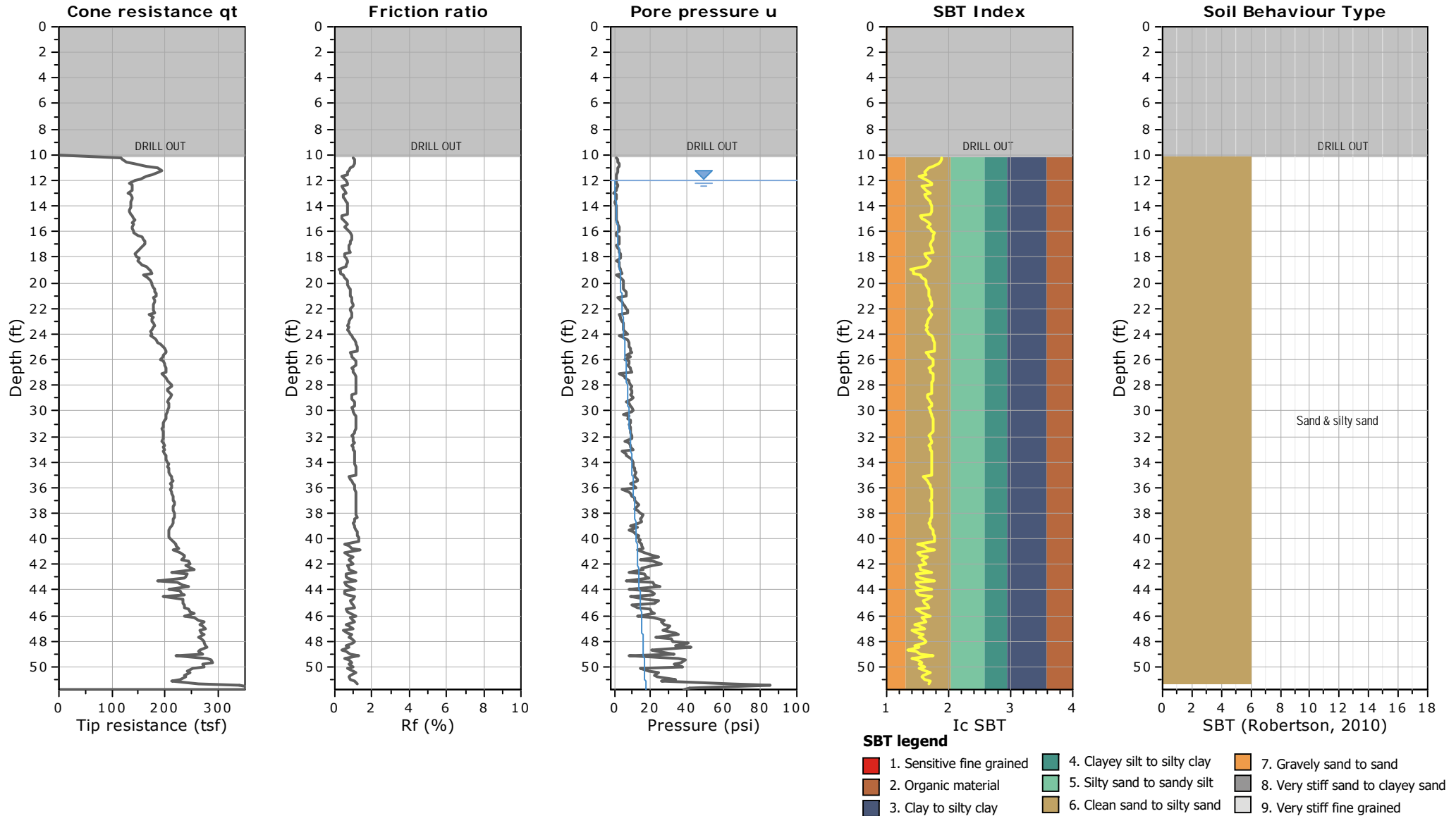
### Bq plots (Schneider)



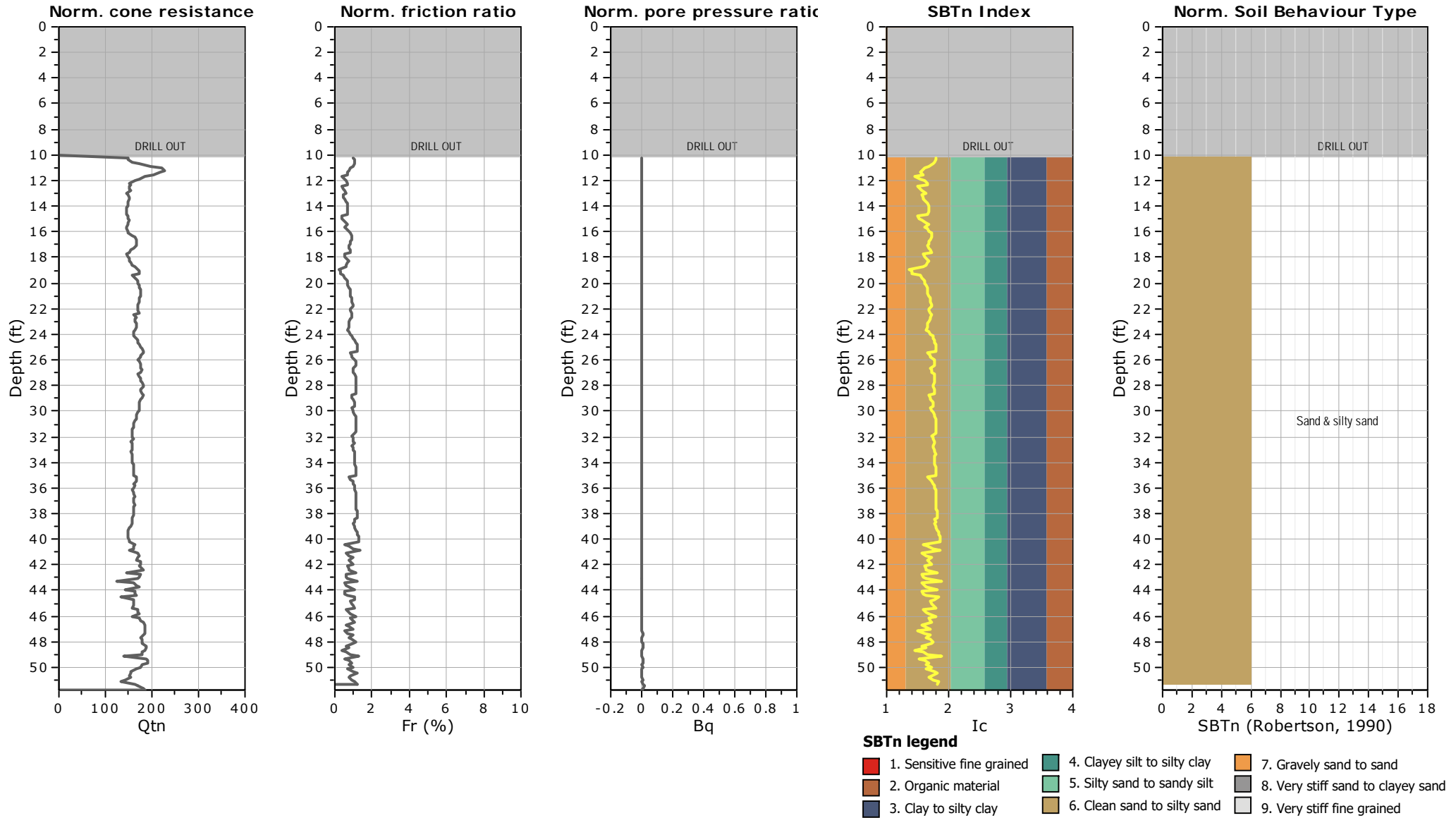


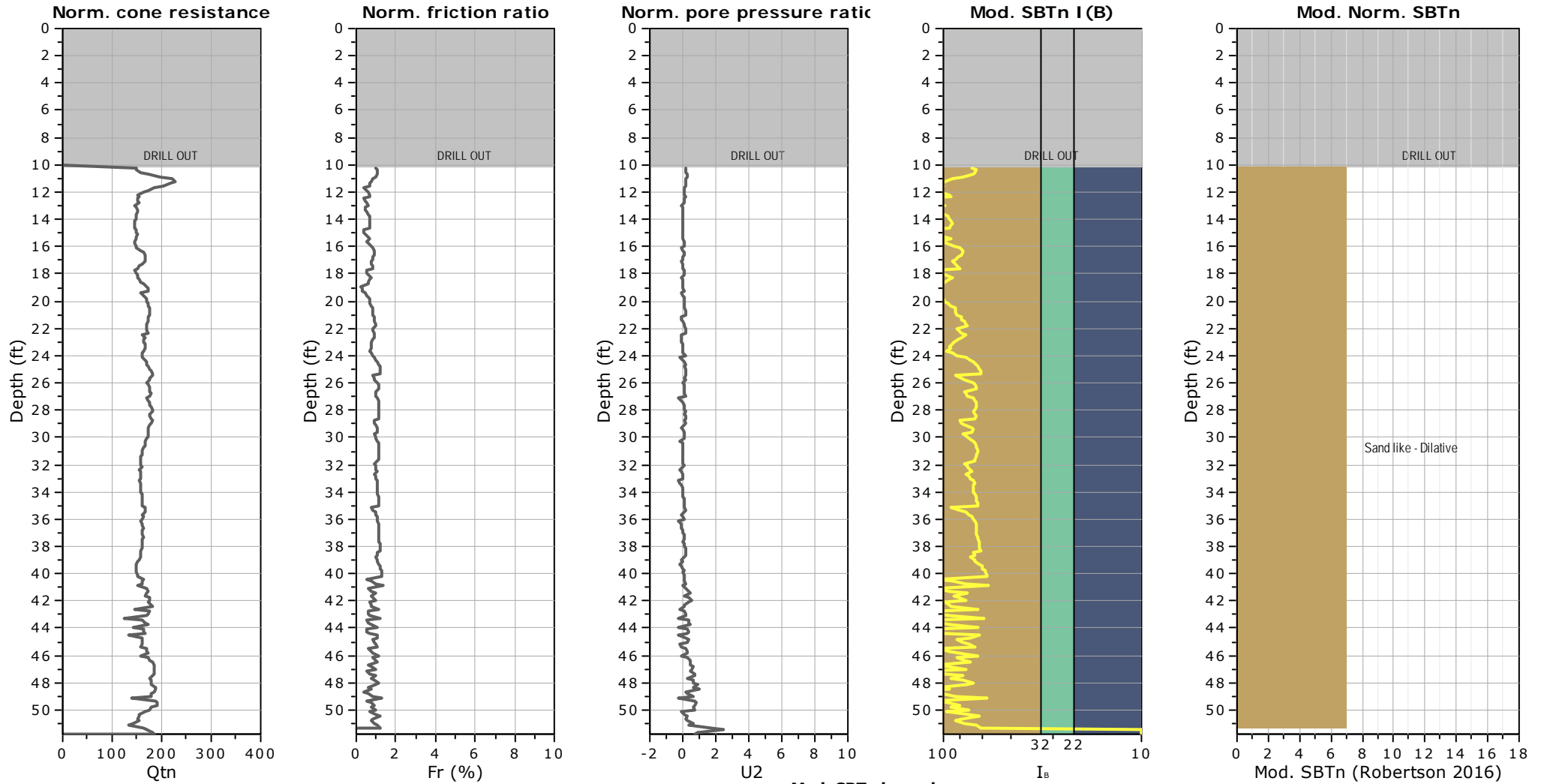
**Fuzzy classification legend**

- Highly probable clayey soil
- Highly probable mixture soil
- Highly probable sandy soil





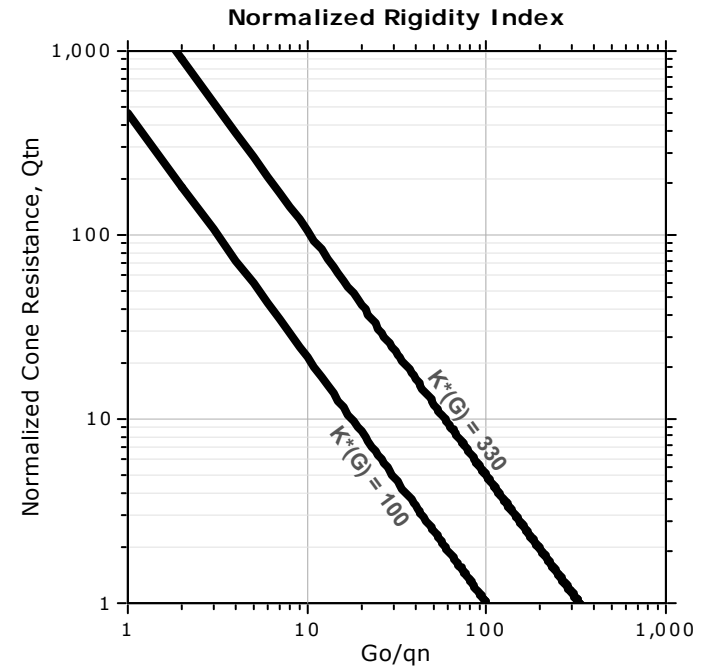
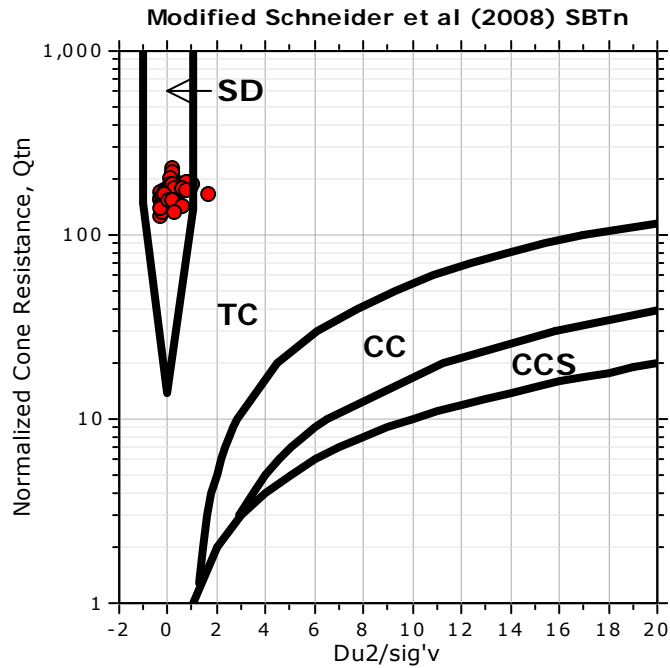
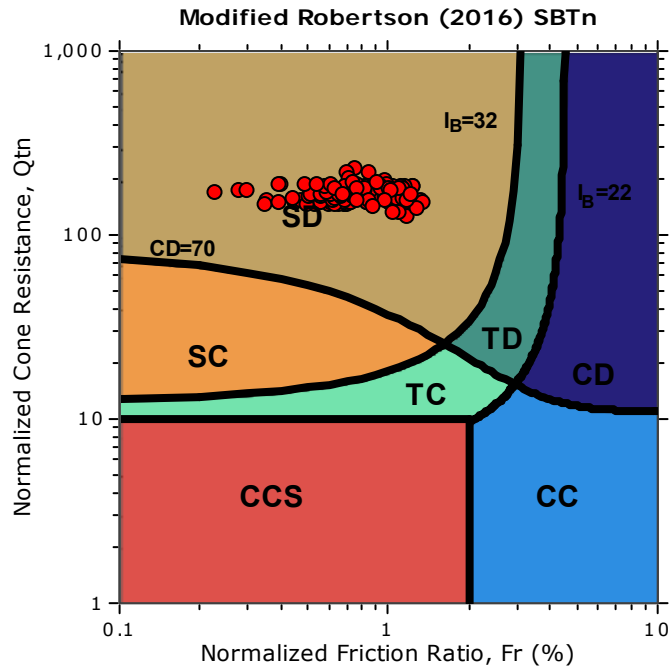




- Mod. SBTn legend**
- 1. CCS: ClayLike - Contractive, Sensitive
  - 4. TC: Transitional - Contractive
  - 2. CC: Clay-like - Contractive
  - 5. TD: Transitional - Dilative
  - 3. CD: Clay-Like: Dilative
  - 6. SC: Sand-like - Contractive
  - 7. SD: Sand-like - Dilative

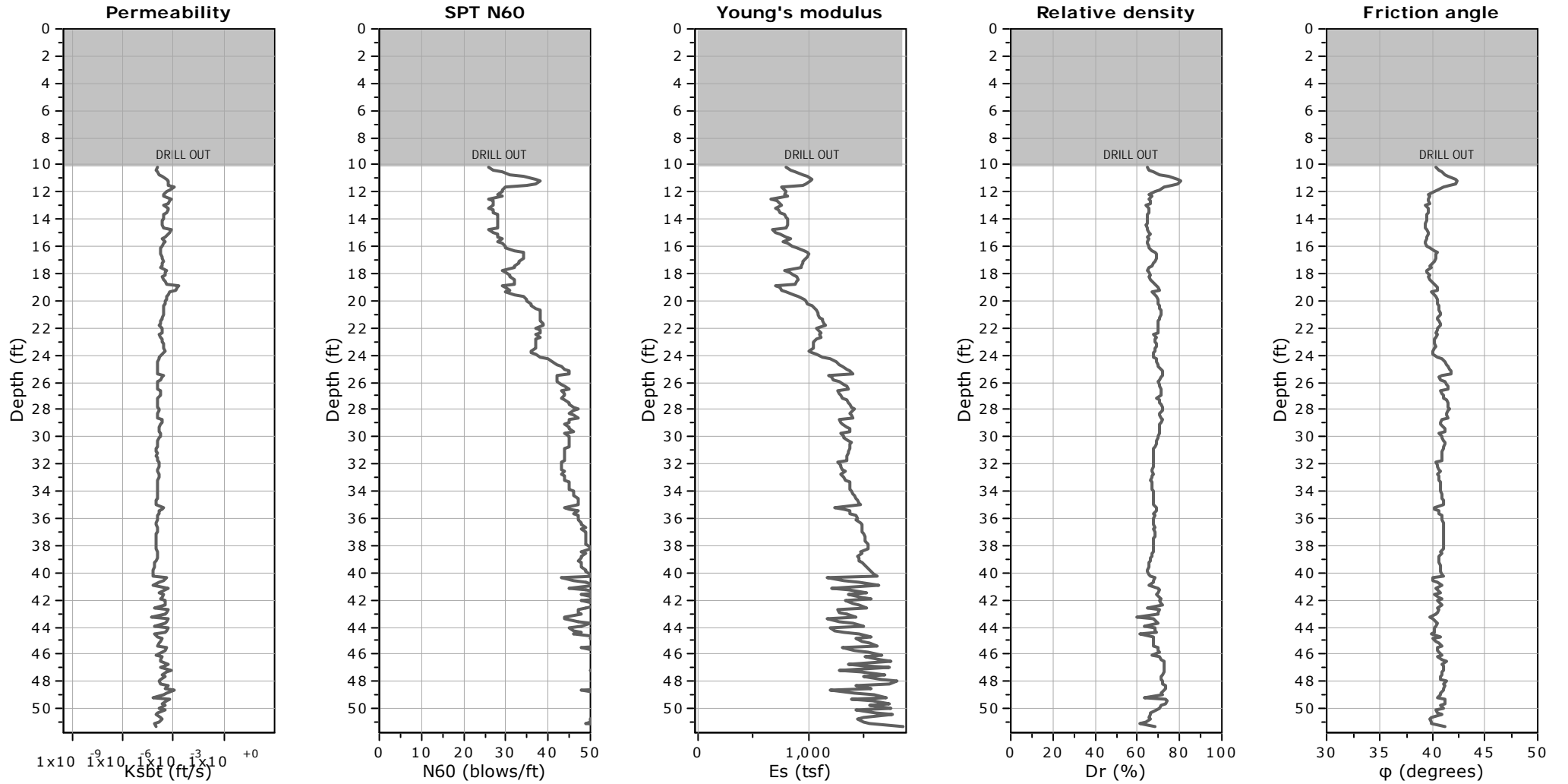


**Updated SBTn plots**



- CCS: Clay-like - Contractive - Sensitive
- CC: Clay-like - Contractive
- CD: Clay-like - Dilative
- TC: Transitional - Contractive
- TD: Transitional - Dilative
- SC: Sand-like - Contractive
- SD: Sand-like - Dilative

$K^*(G) > 330$ : Soils with significant microstructure (e.g. age/cementation)



**Calculation parameters**

Permeability: Based on  $SBT_n$

SPT  $N_{60}$ : Based on  $I_c$  and  $q_t$

Young's modulus: Based on variable alpha using  $I_c$  (Robertson, 2009)

Relative density constant,  $C_{Dr}$ : 350.0

Phi: Based on Kulhawy & Mayne (1990)

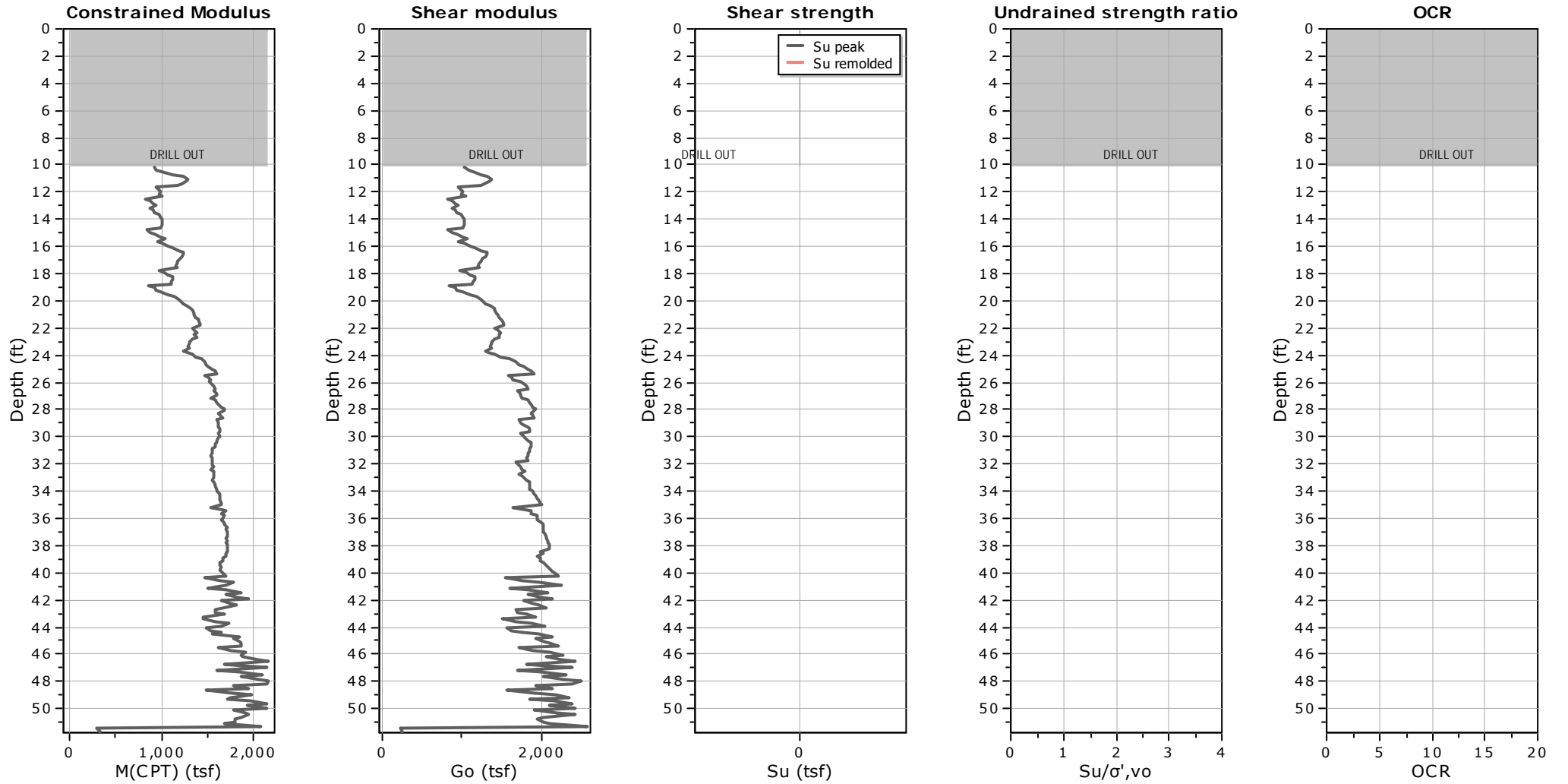


**Project:** Langan

**Location:** 145 Wolcott St, Brooklyn NY

**CPT-4**

Total depth: 51.77 ft



**Calculation parameters**

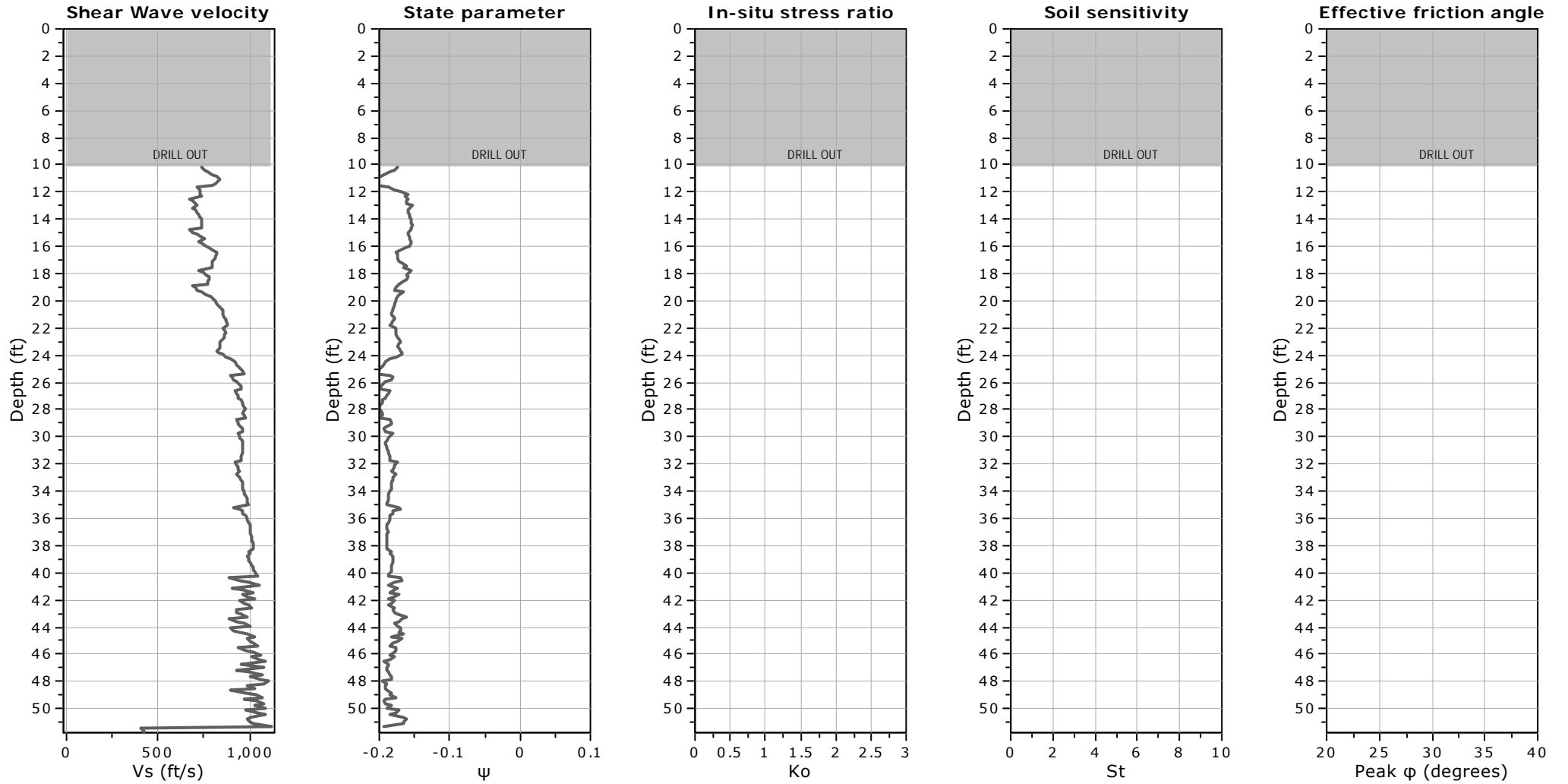
Constrained modulus: Based on variable  $\alpha$  using  $I_c$  and  $Q_{tn}$  (Robertson, 2009)

Go: Based on variable  $\alpha$  using  $I_c$  (Robertson, 2009)

Undrained shear strength cone factor for clays,  $N_{kt}$ : 14

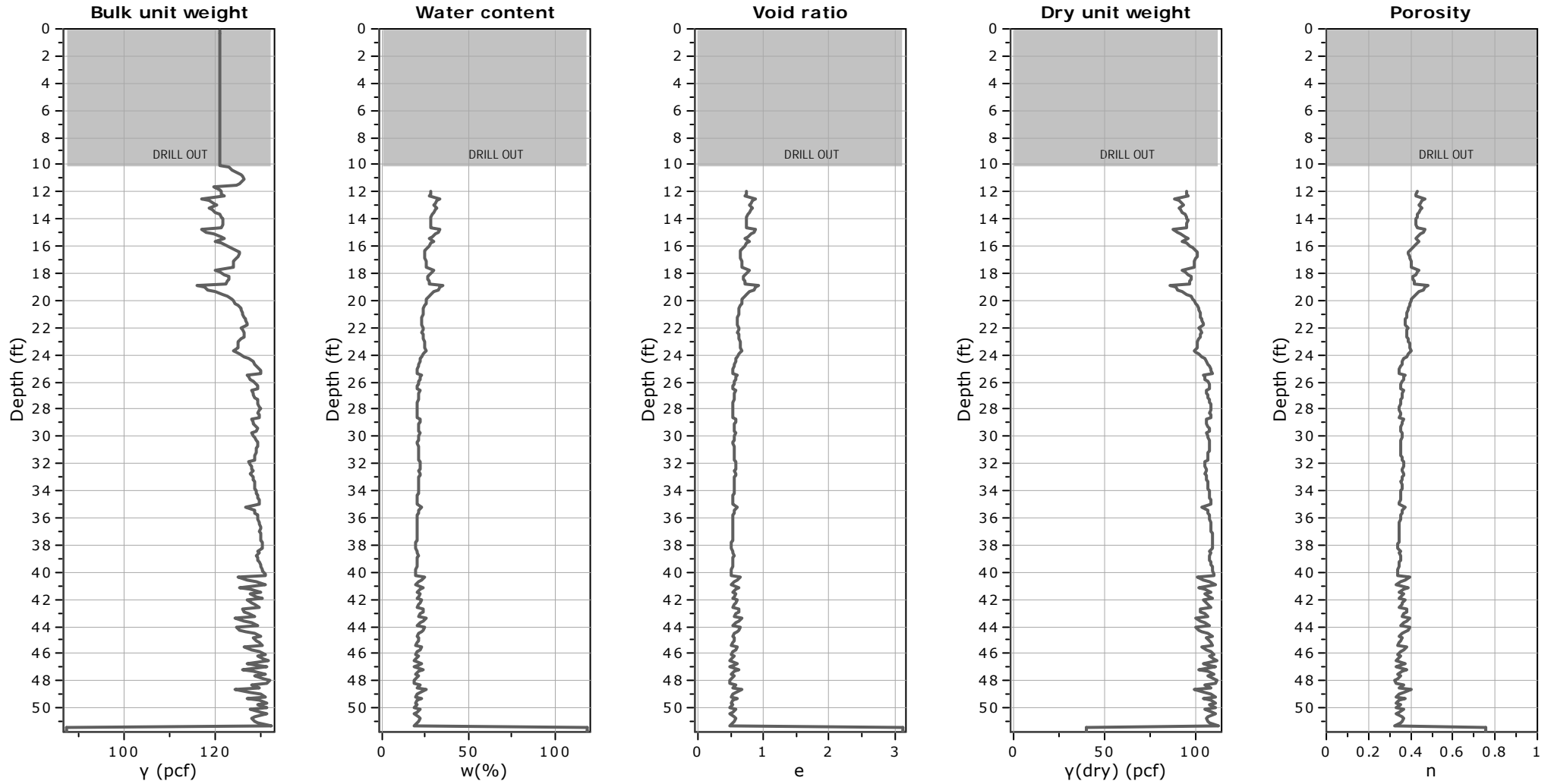
OCR factor for clays,  $N_{kt}$ : 0.33

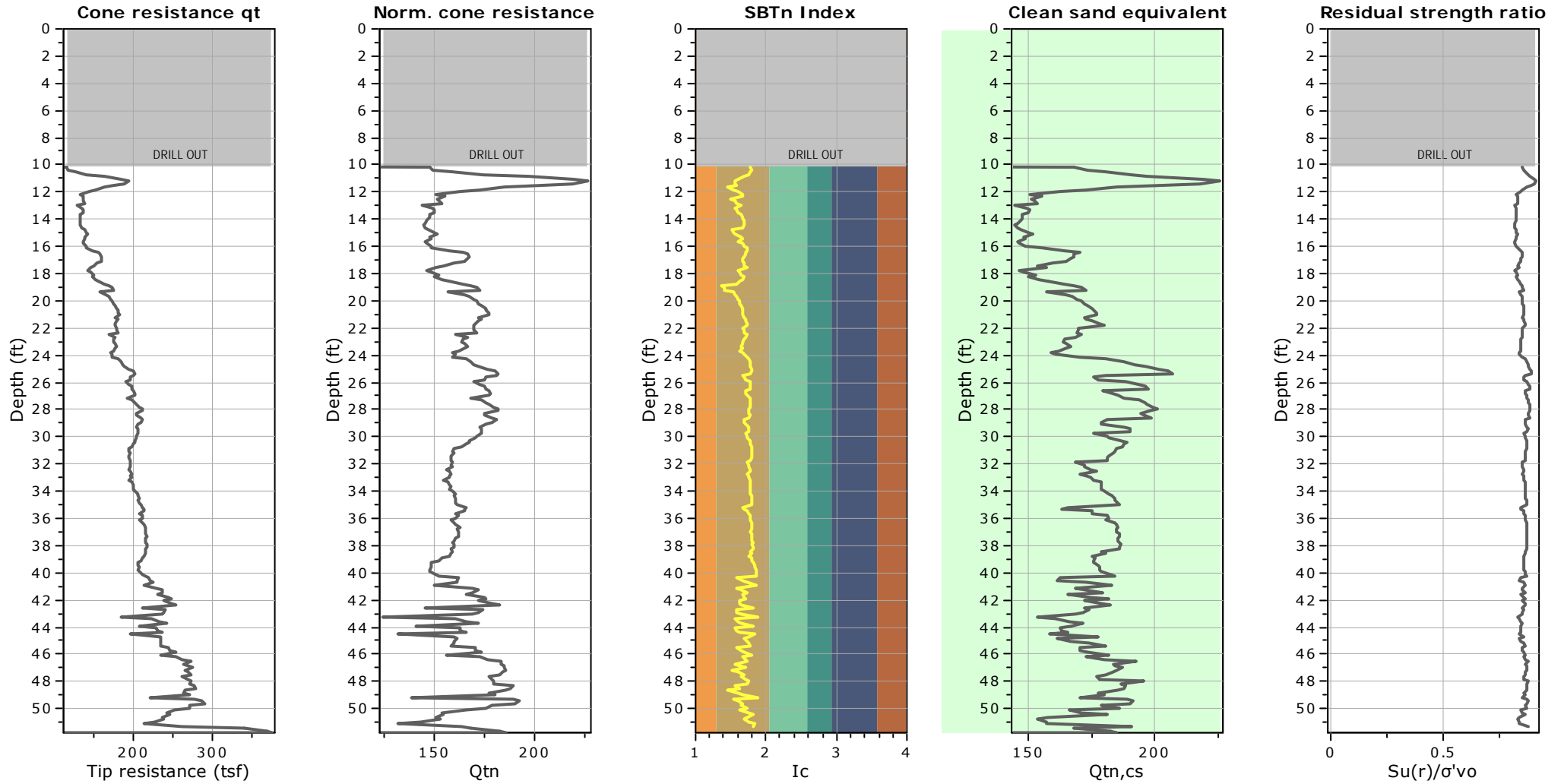
● Flat Dilatometer Test data



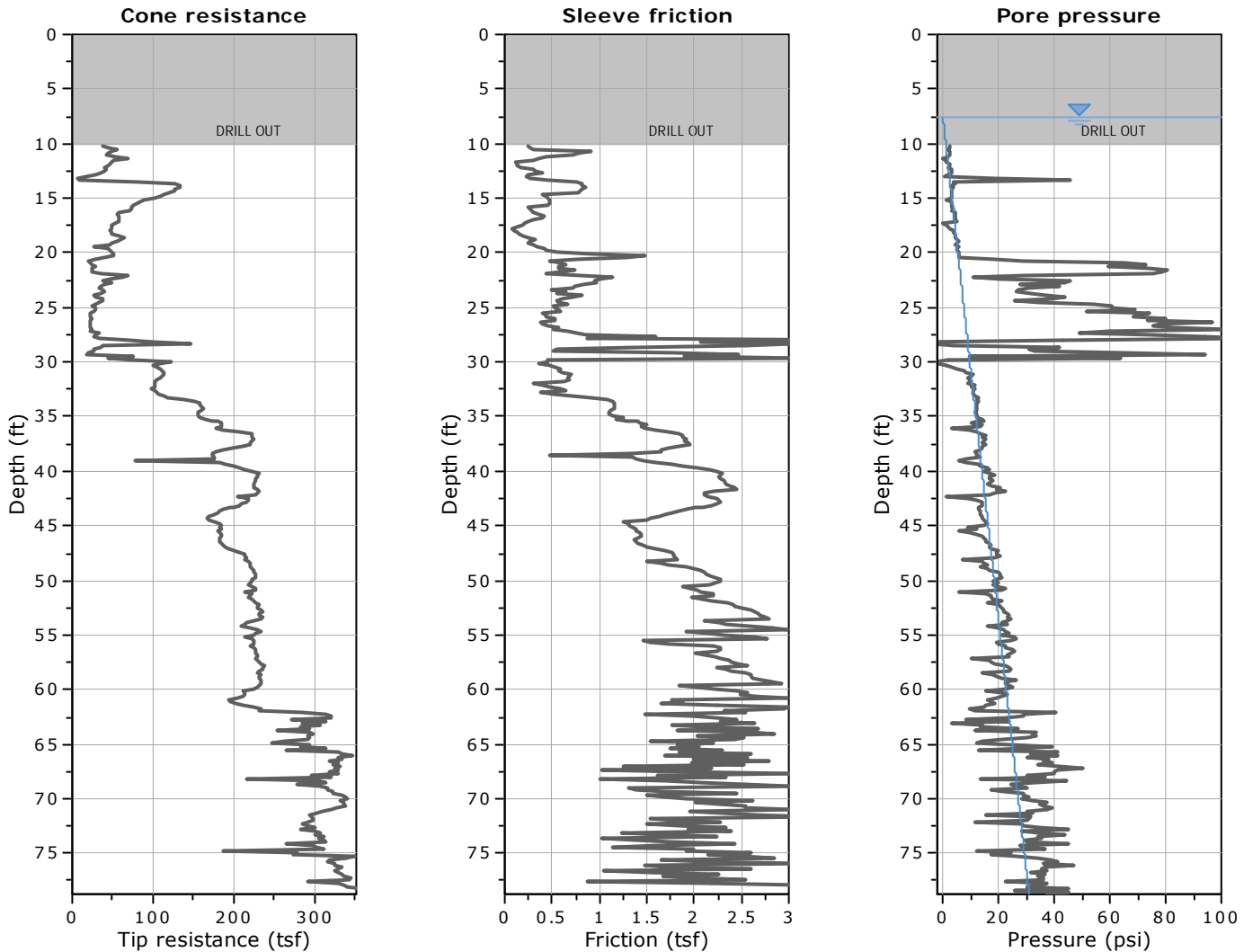
**Calculation parameters**

Soil Sensitivity factor,  $N_s$ : 7.00



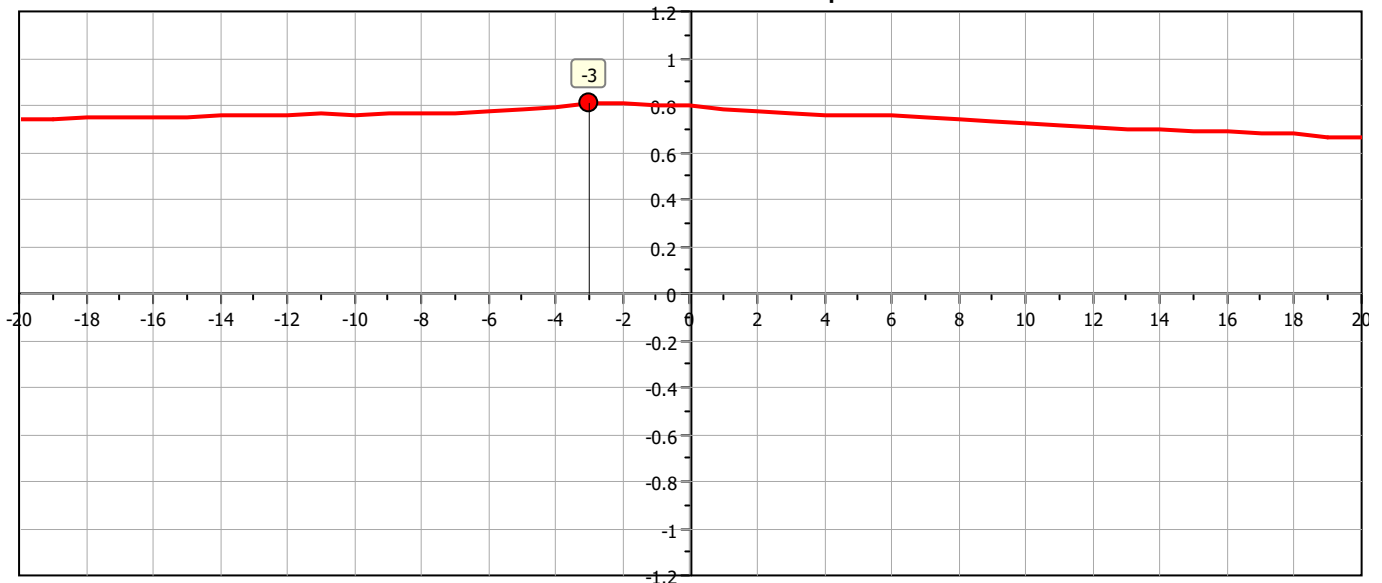






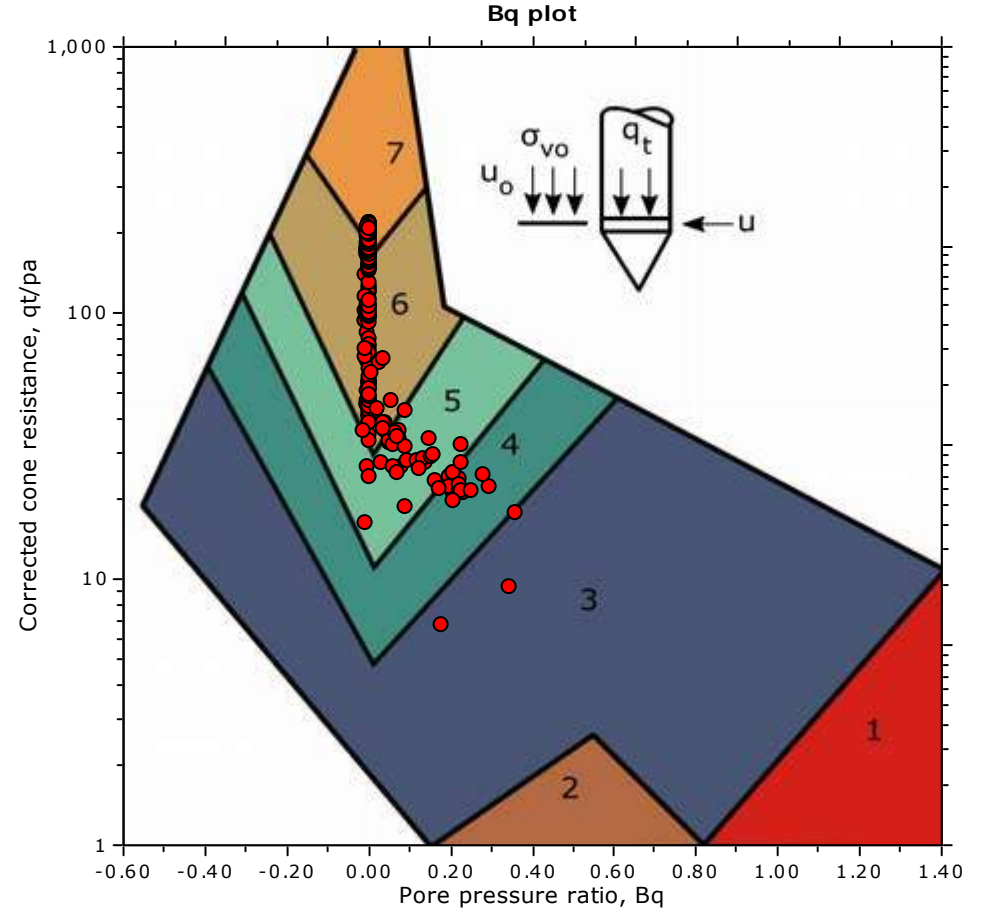
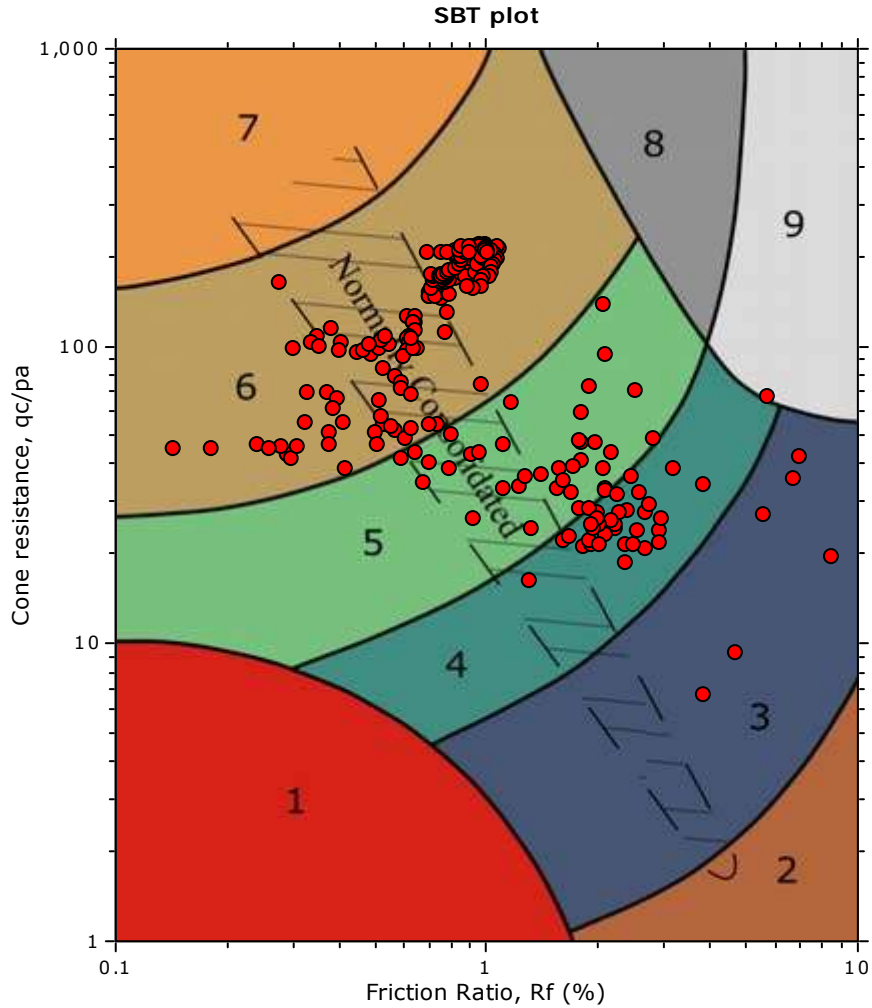
The plot below presents the cross correlation coefficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two successive CPT measurements).

Cross correlation between qc & fs





**SBT - Bq plots**

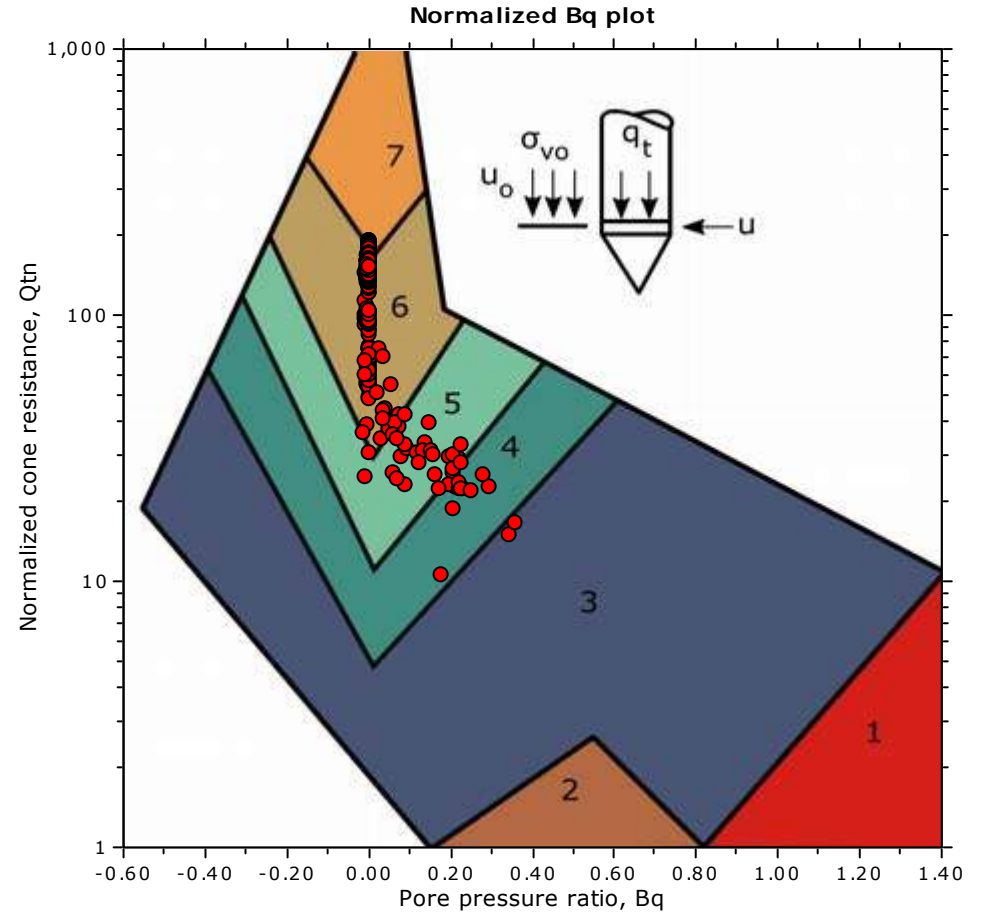
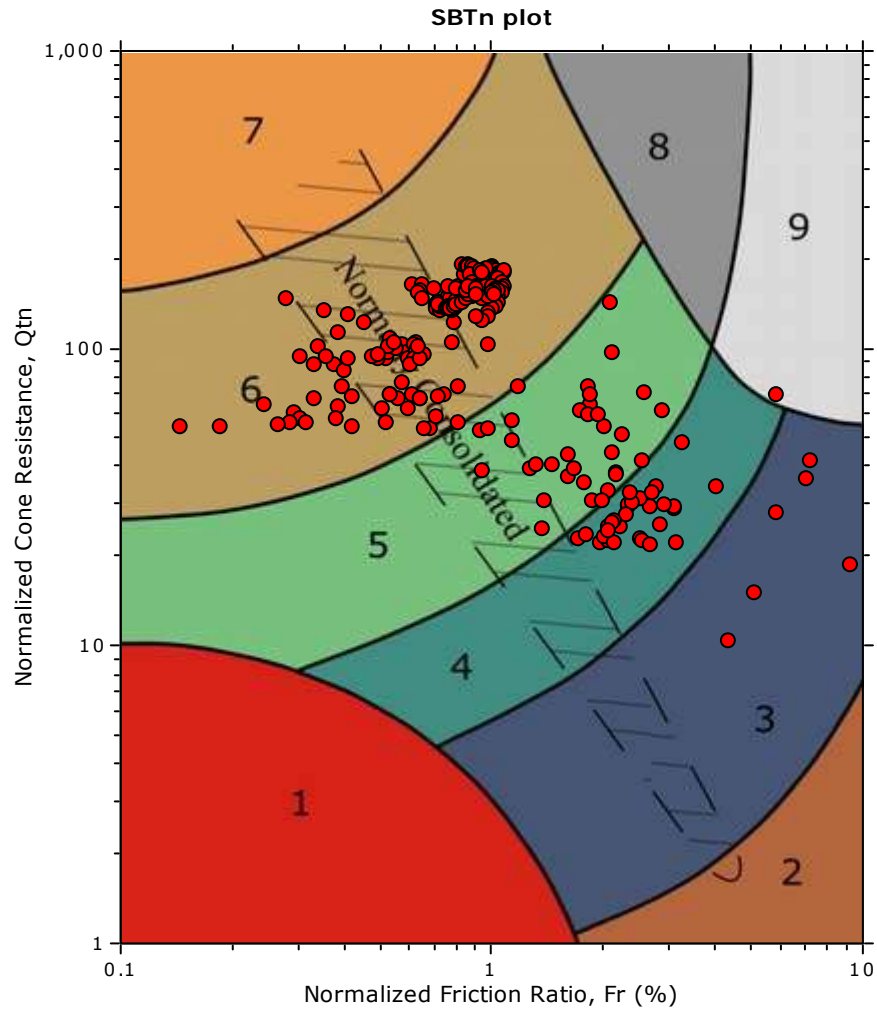


**SBT legend**

- |                           |                              |                                   |
|---------------------------|------------------------------|-----------------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty clay | 7. Gravelly sand to sand          |
| 2. Organic material       | 5. Silty sand to sandy silt  | 8. Very stiff sand to clayey sand |
| 3. Clay to silty clay     | 6. Clean sand to silty sand  | 9. Very stiff fine grained        |



**SBT - Bq plots (normalized)**

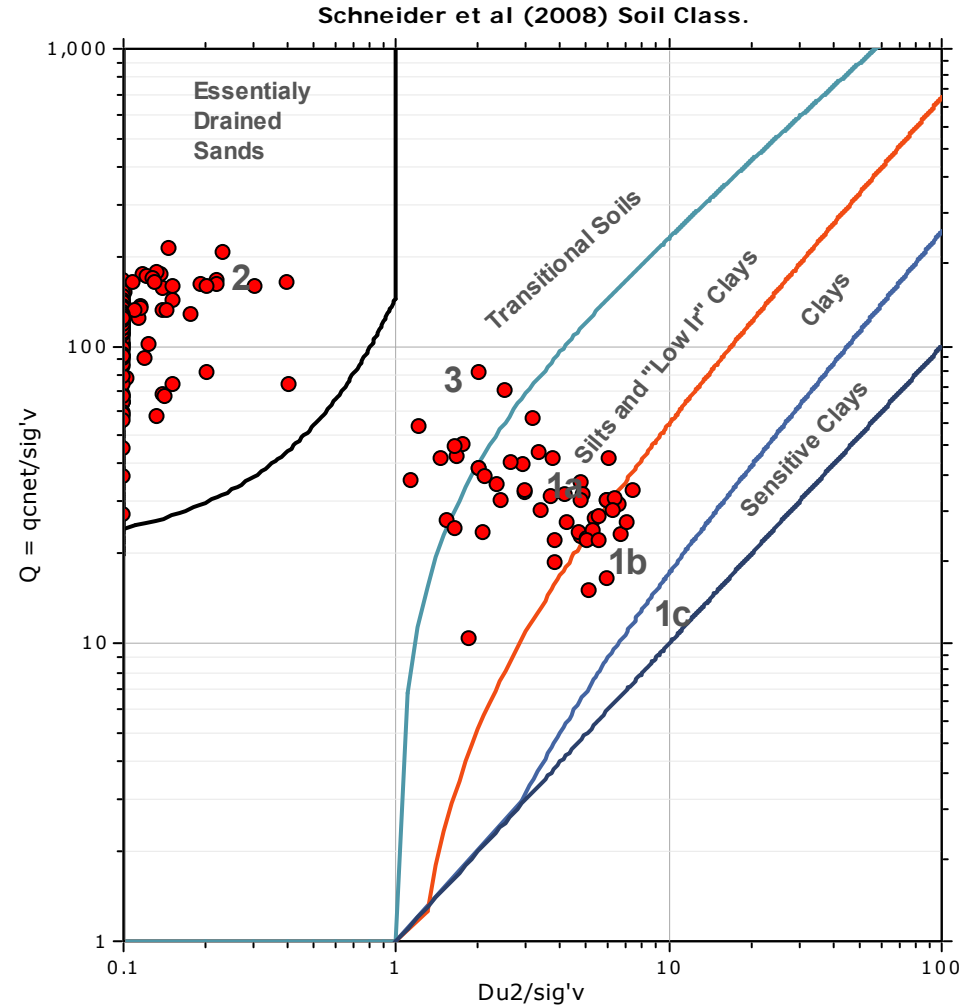
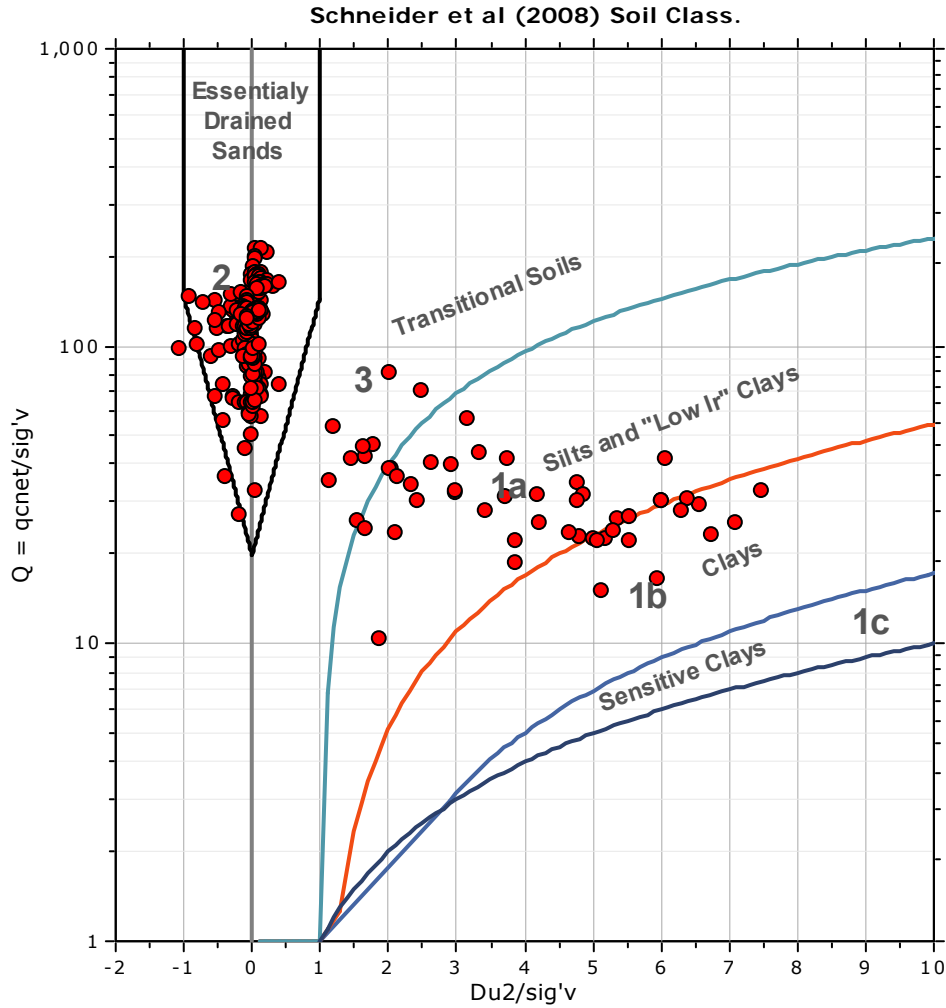


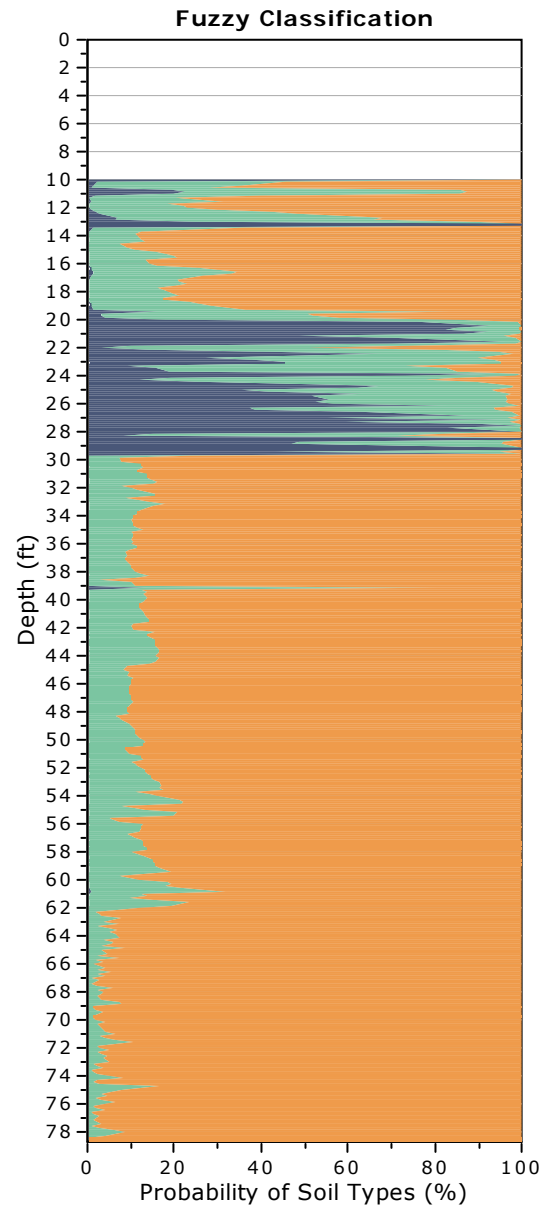
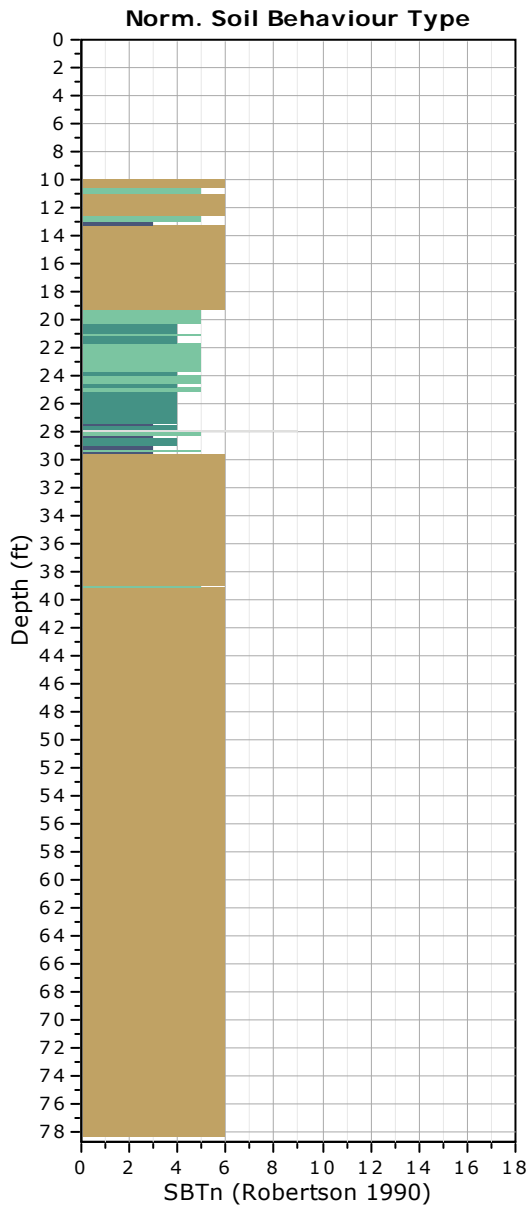
**SBTn legend**

- |                                                              |                                                                       |                                                                       |
|--------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| <span style="color: red;">■</span> 1. Sensitive fine grained | <span style="color: teal;">■</span> 4. Clayey silt to silty clay      | <span style="color: orange;">■</span> 7. Gravelly sand to sand        |
| <span style="color: brown;">■</span> 2. Organic material     | <span style="color: lightgreen;">■</span> 5. Silty sand to sandy silt | <span style="color: grey;">■</span> 8. Very stiff sand to clayey sand |
| <span style="color: blue;">■</span> 3. Clay to silty clay    | <span style="color: tan;">■</span> 6. Clean sand to silty sand        | <span style="color: lightgrey;">■</span> 9. Very stiff fine grained   |



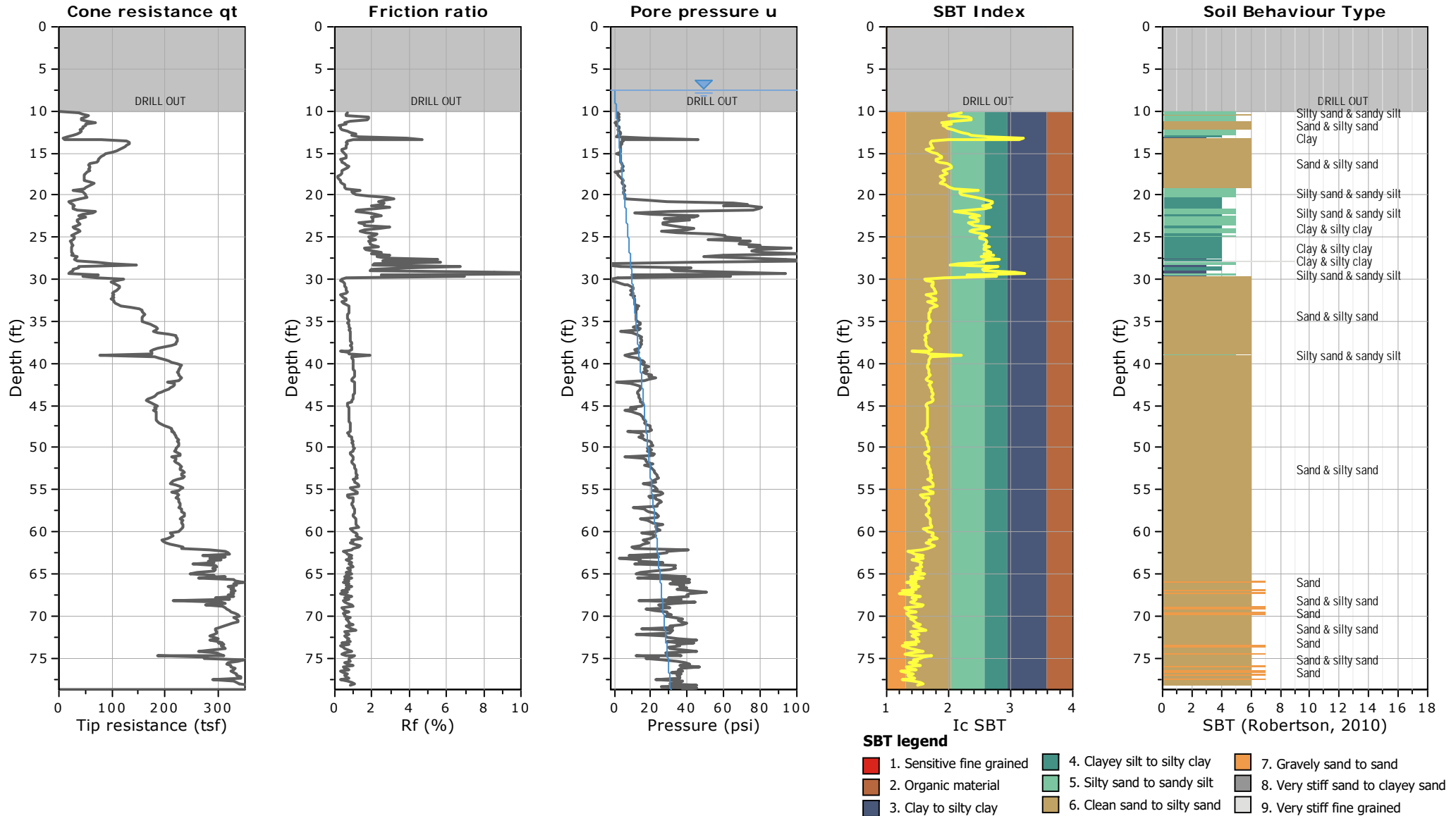
### Bq plots (Schneider)

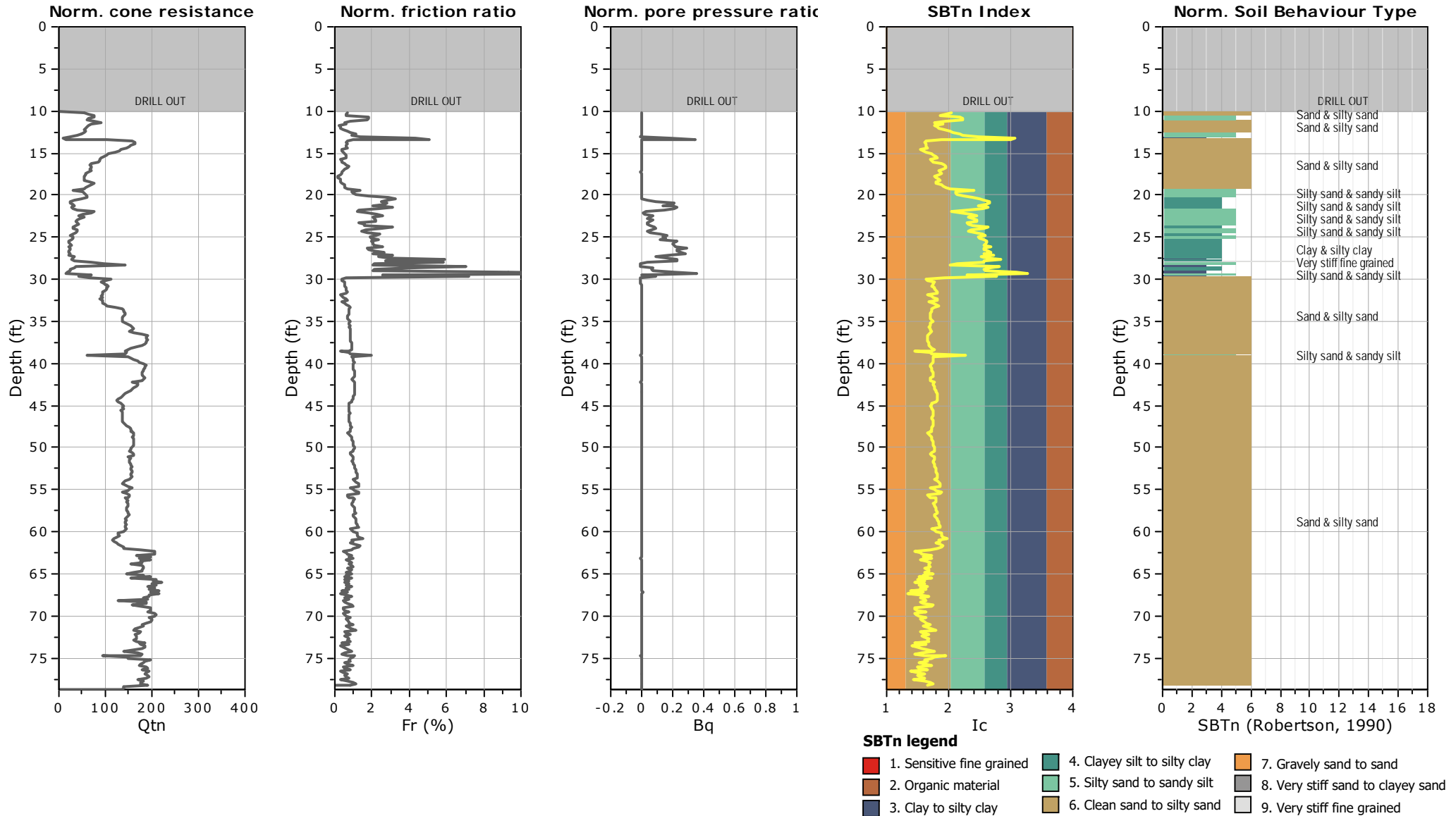


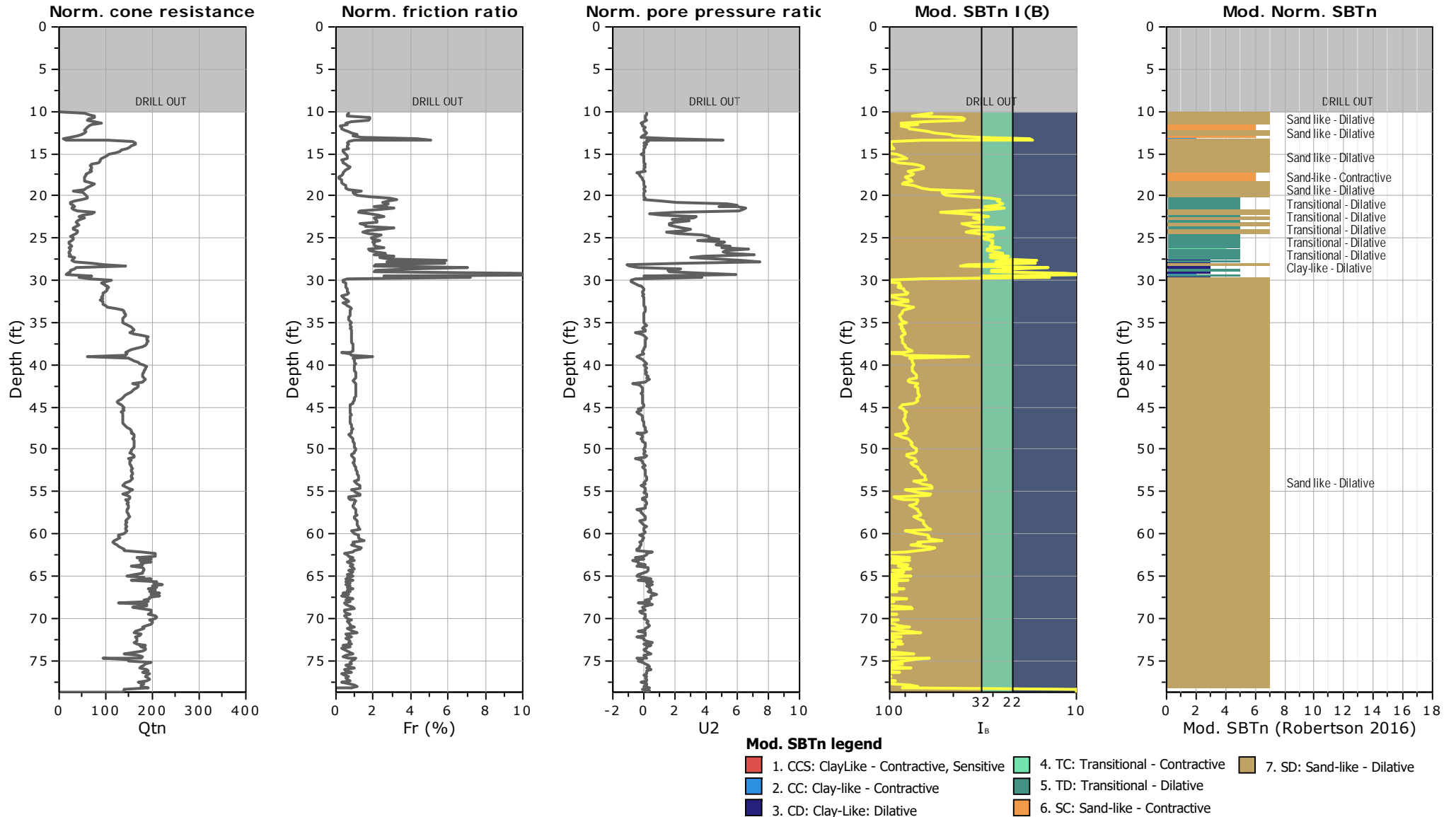


**Fuzzy classification legend**

- Highly probable clayey soil
- Highly probable mixture soil
- Highly probable sandy soil



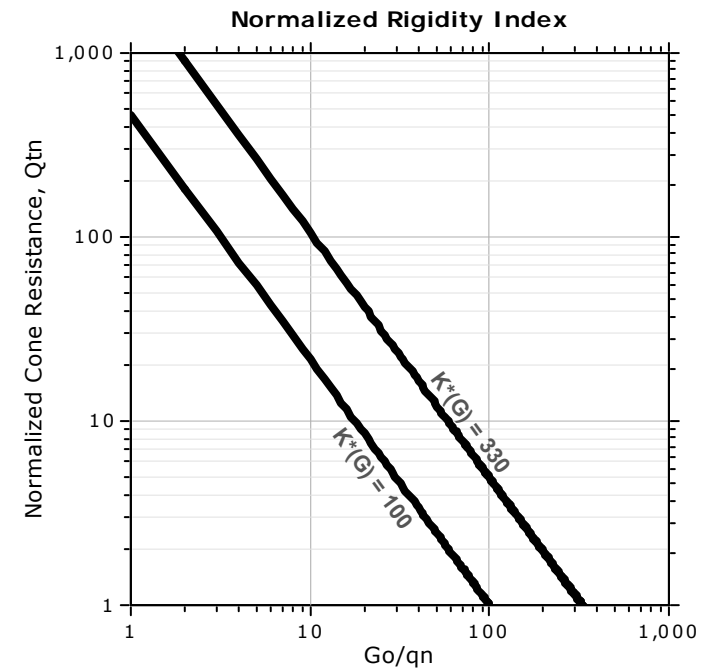
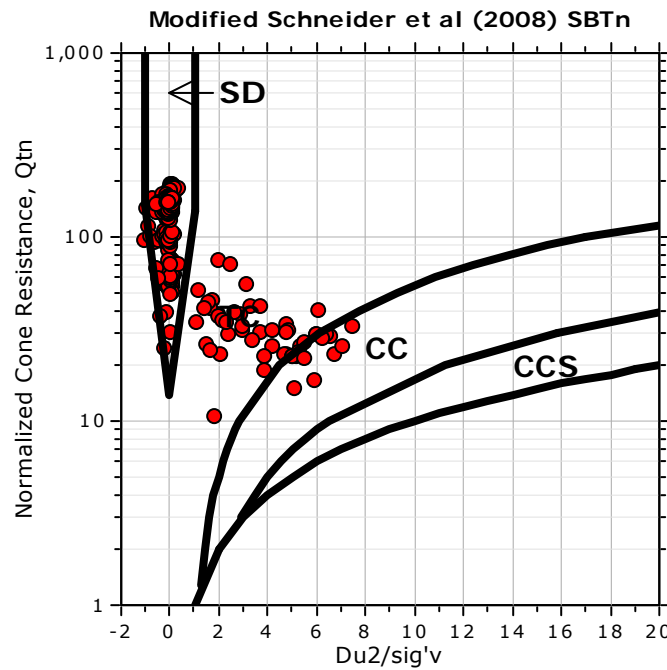
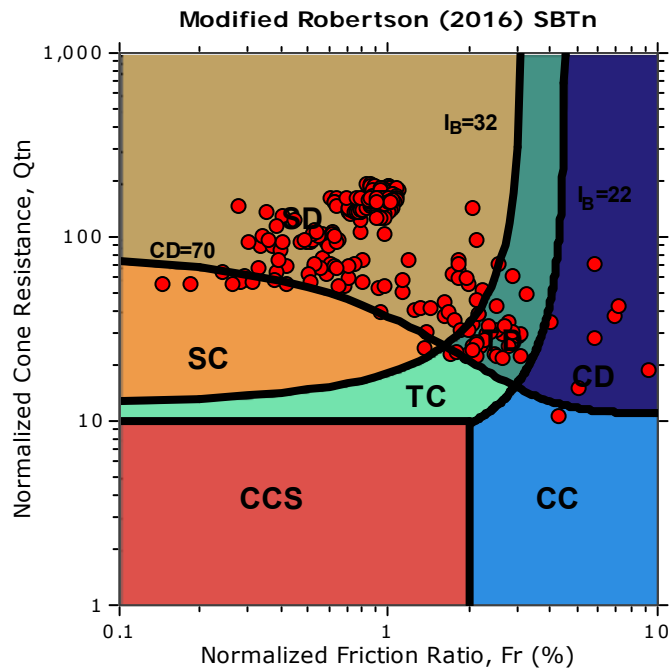






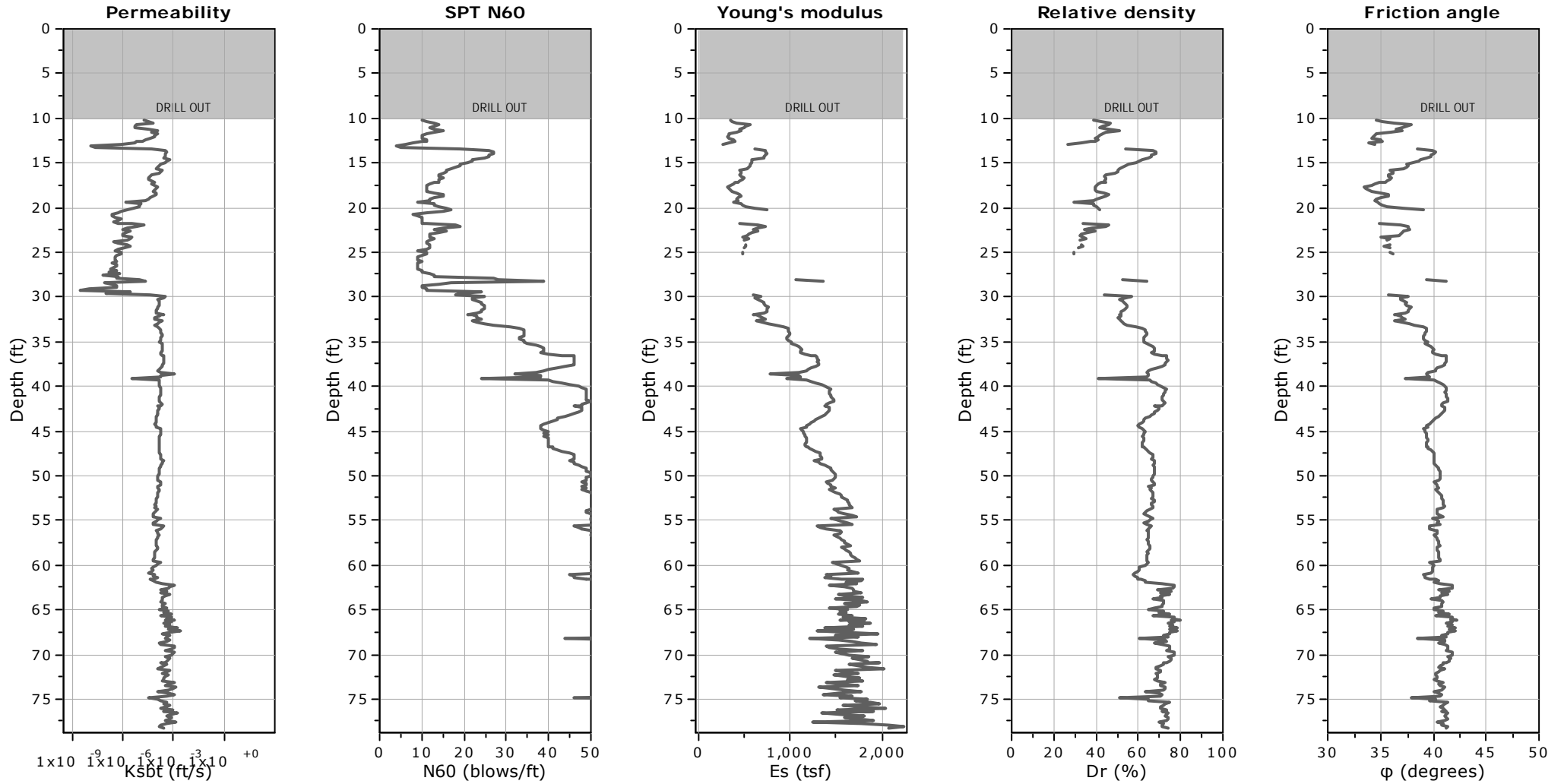


**Updated SBTn plots**



- CCS: Clay-like - Contractive - Sensitive
- CC: Clay-like - Contractive
- CD: Clay-like - Dilative
- TC: Transitional - Contractive
- TD: Transitional - Dilative
- SC: Sand-like - Contractive
- SD: Sand-like - Dilative

$K^*(G) > 330$ : Soils with significant microstructure (e.g. age/cementation)



**Calculation parameters**

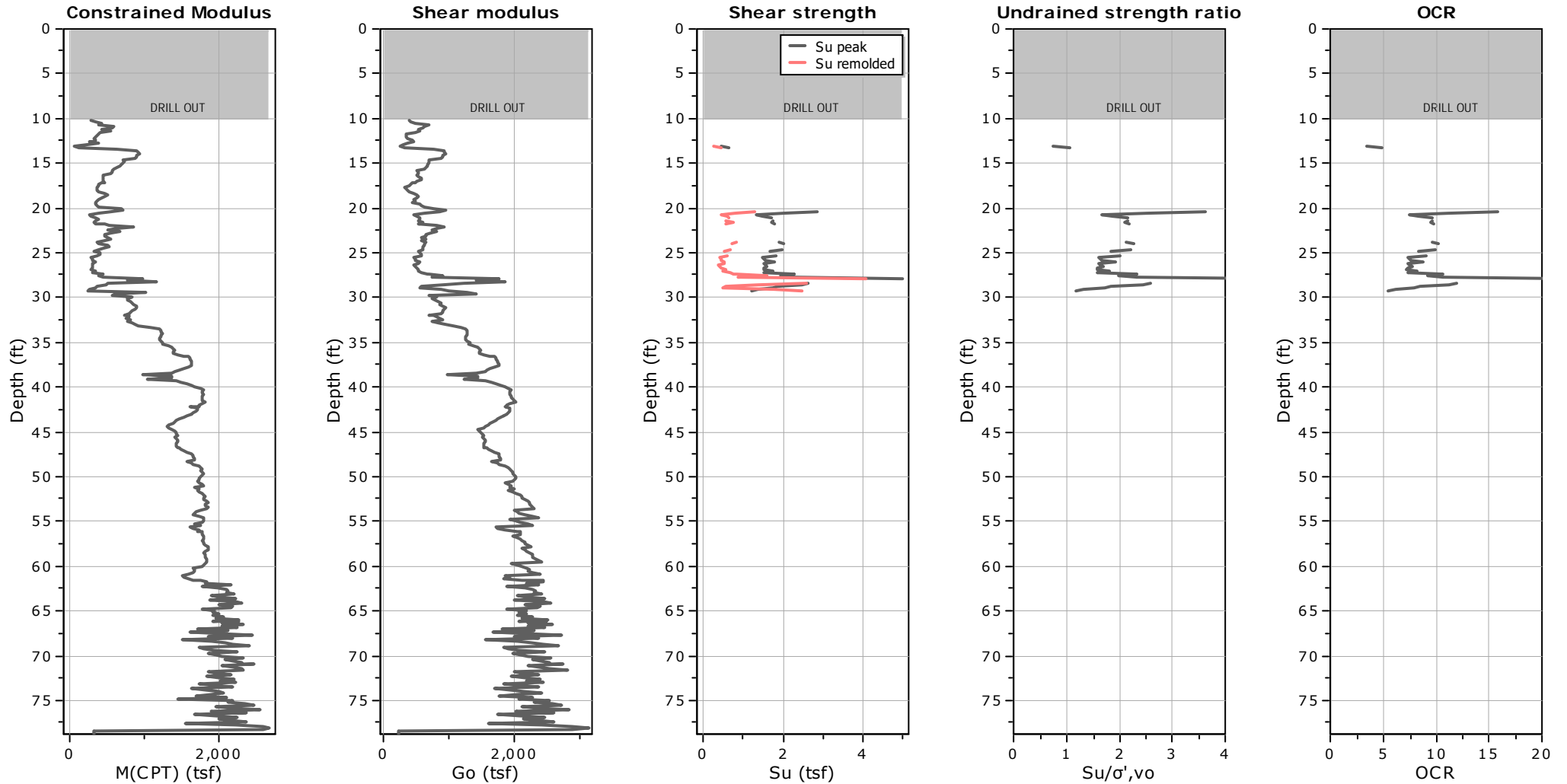
Permeability: Based on  $SBT_n$

SPT  $N_{60}$ : Based on  $I_c$  and  $q_t$

Young's modulus: Based on variable alpha using  $I_c$  (Robertson, 2009)

Relative density constant,  $C_{Dr}$ : 350.0

Phi: Based on Kulhawy & Mayne (1990)



**Calculation parameters**

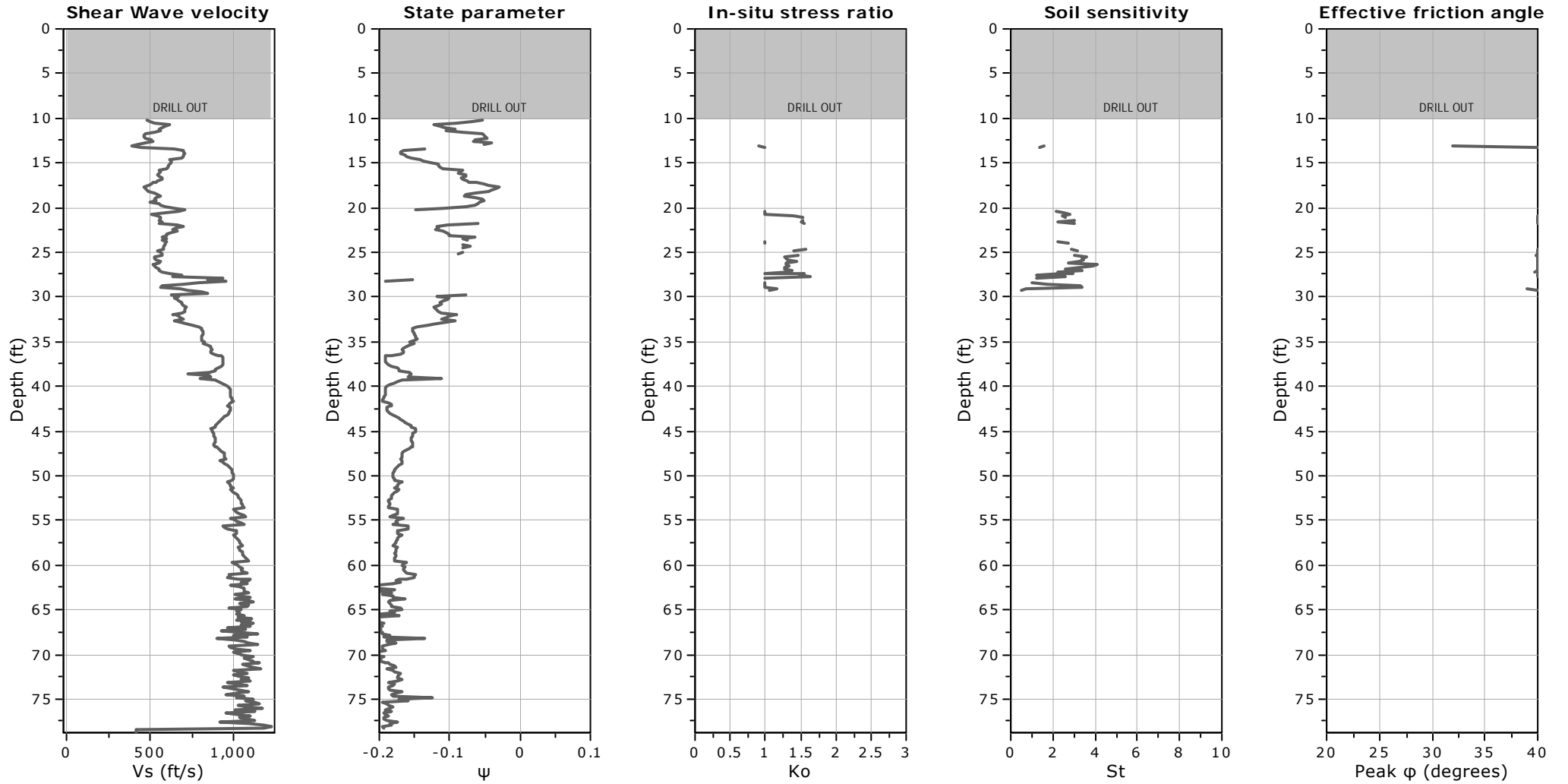
Constrained modulus: Based on variable  $\alpha$  using  $I_c$  and  $Q_{tn}$  (Robertson, 2009)

Go: Based on variable  $\alpha$  using  $I_c$  (Robertson, 2009)

Undrained shear strength cone factor for clays,  $N_{kt}$ : 14

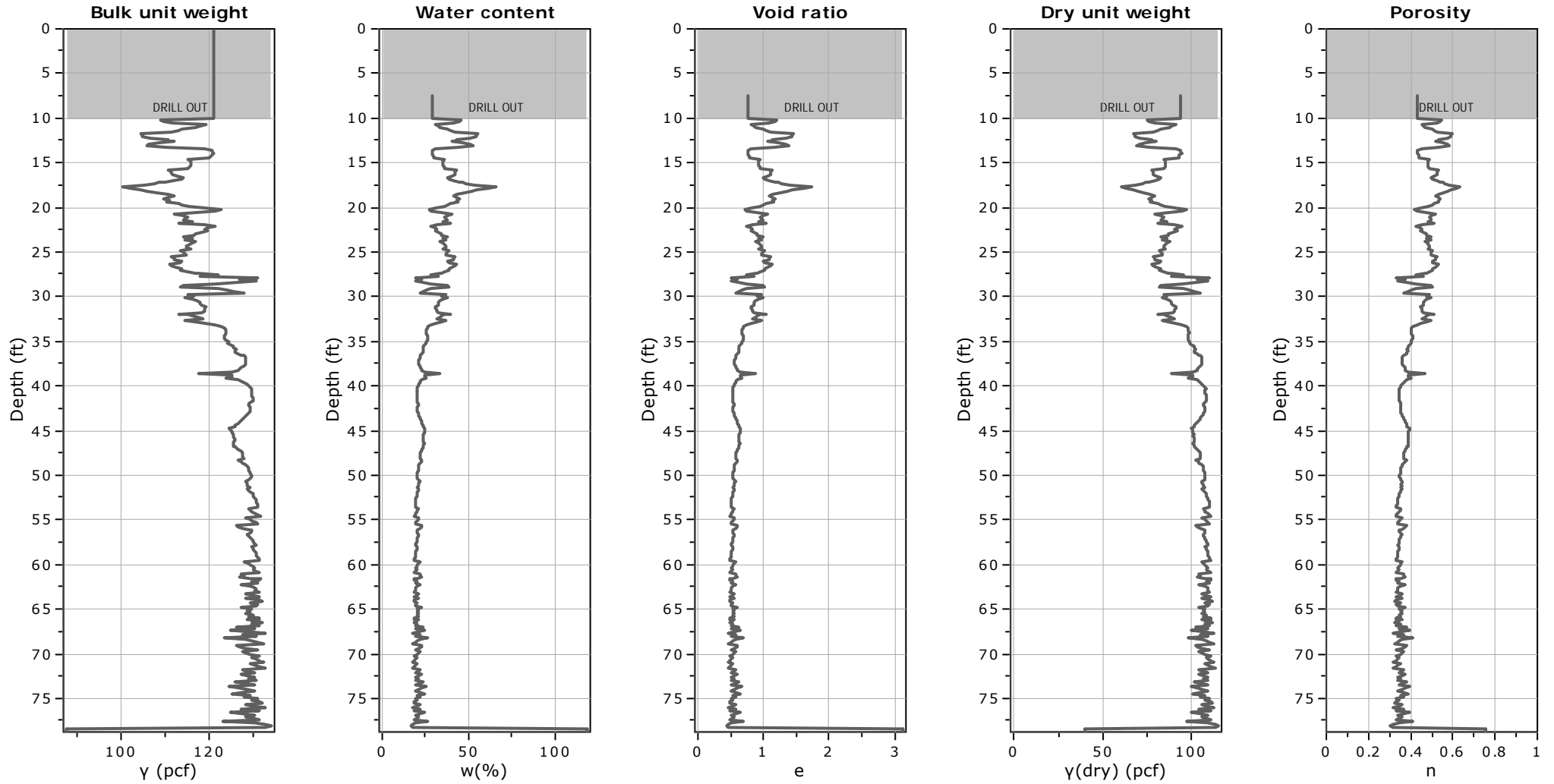
OCR factor for clays,  $N_{kt}$ : 0.33

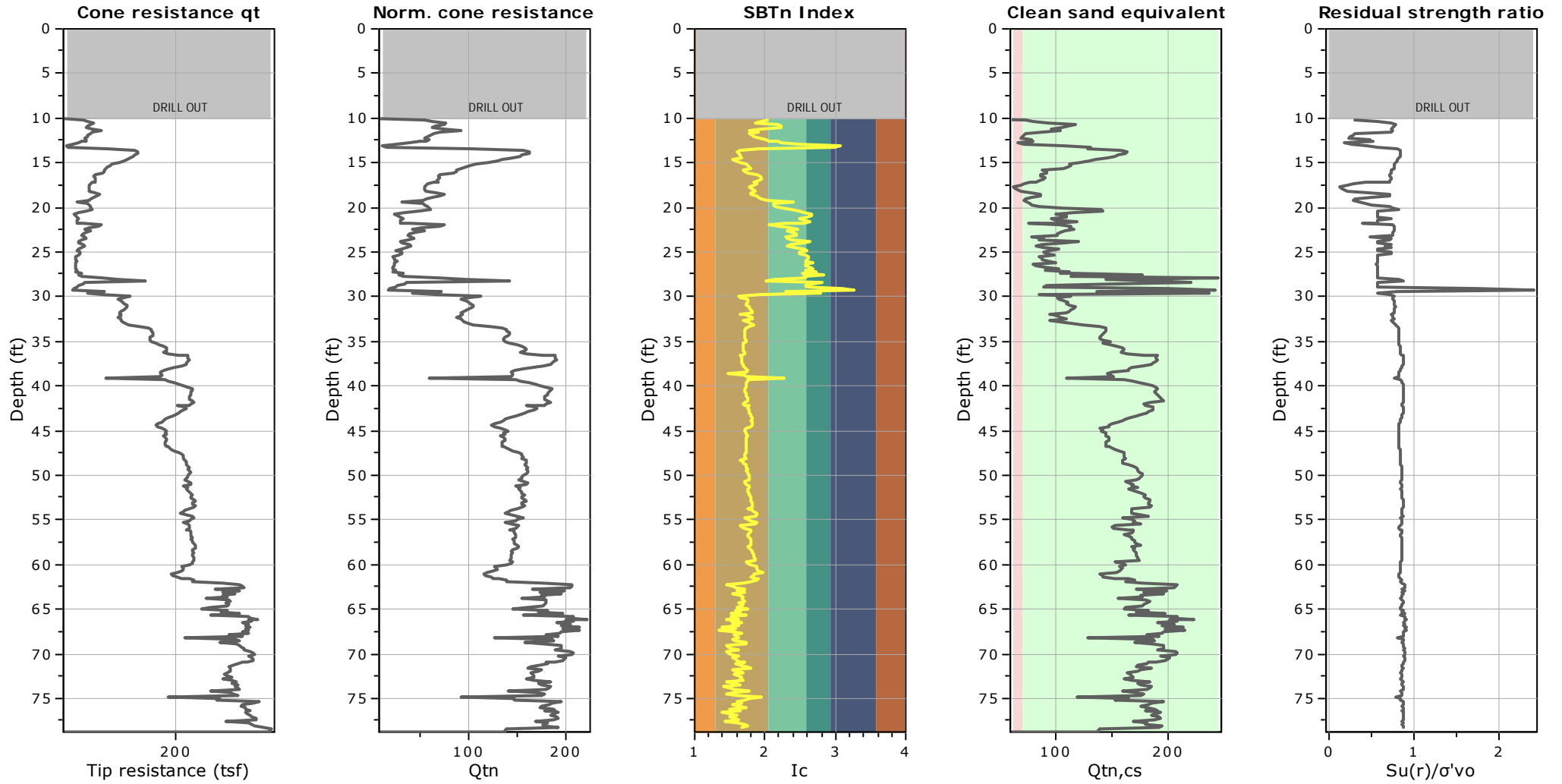
● Flat Dilatometer Test data

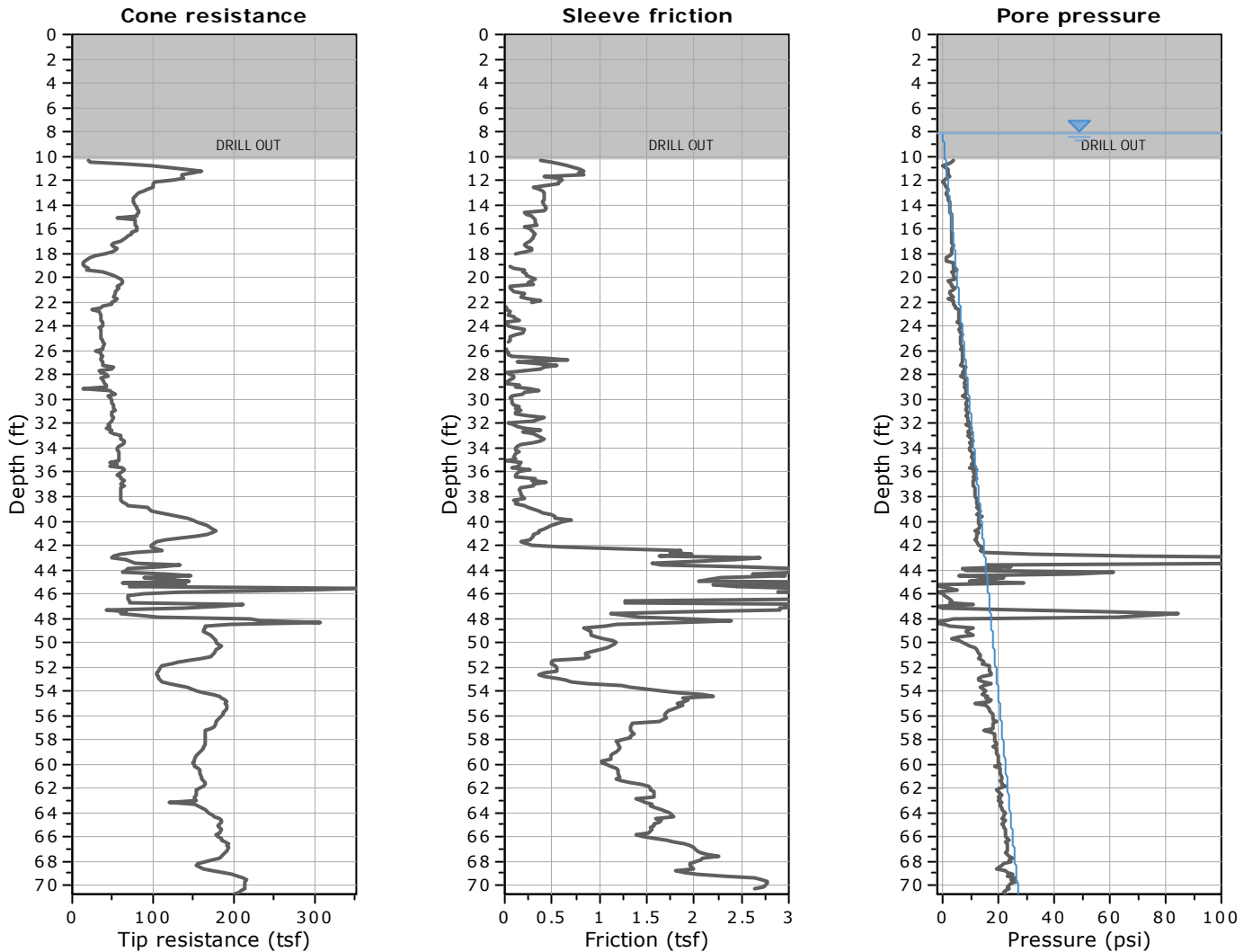


**Calculation parameters**

Soil Sensitivity factor,  $N_s$ : 7.00

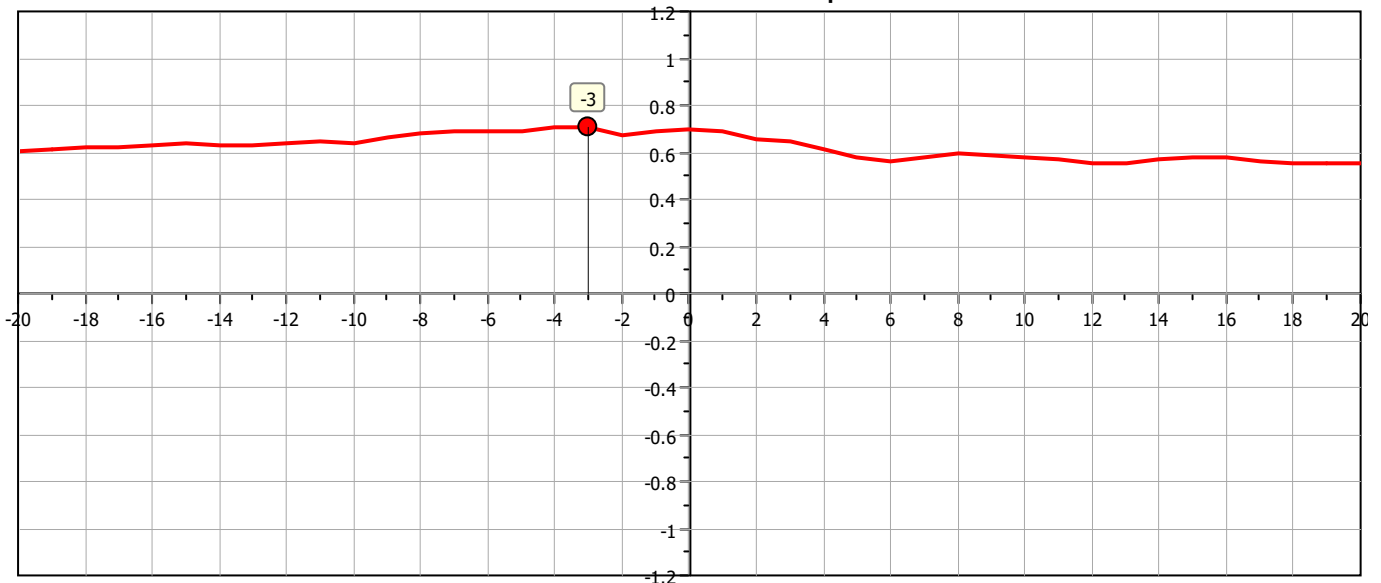






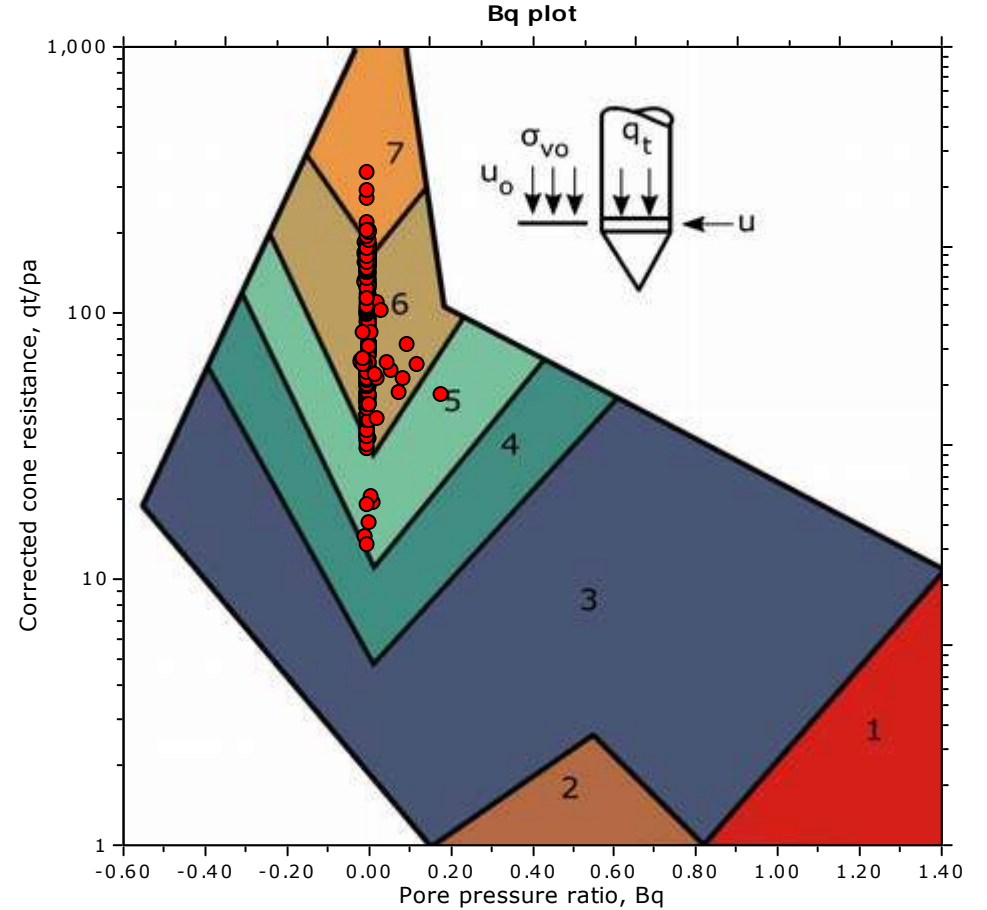
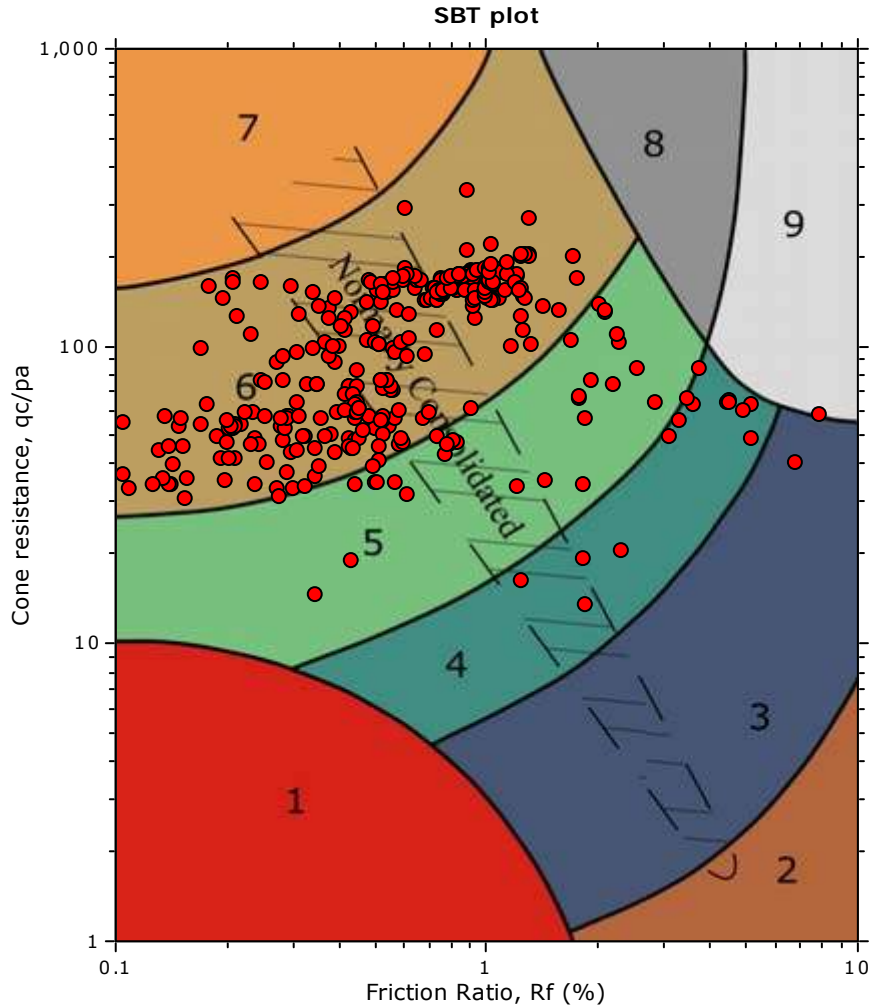
The plot below presents the cross correlation coefficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two successive CPT measurements).

Cross correlation between qc & fs





**SBT - Bq plots**



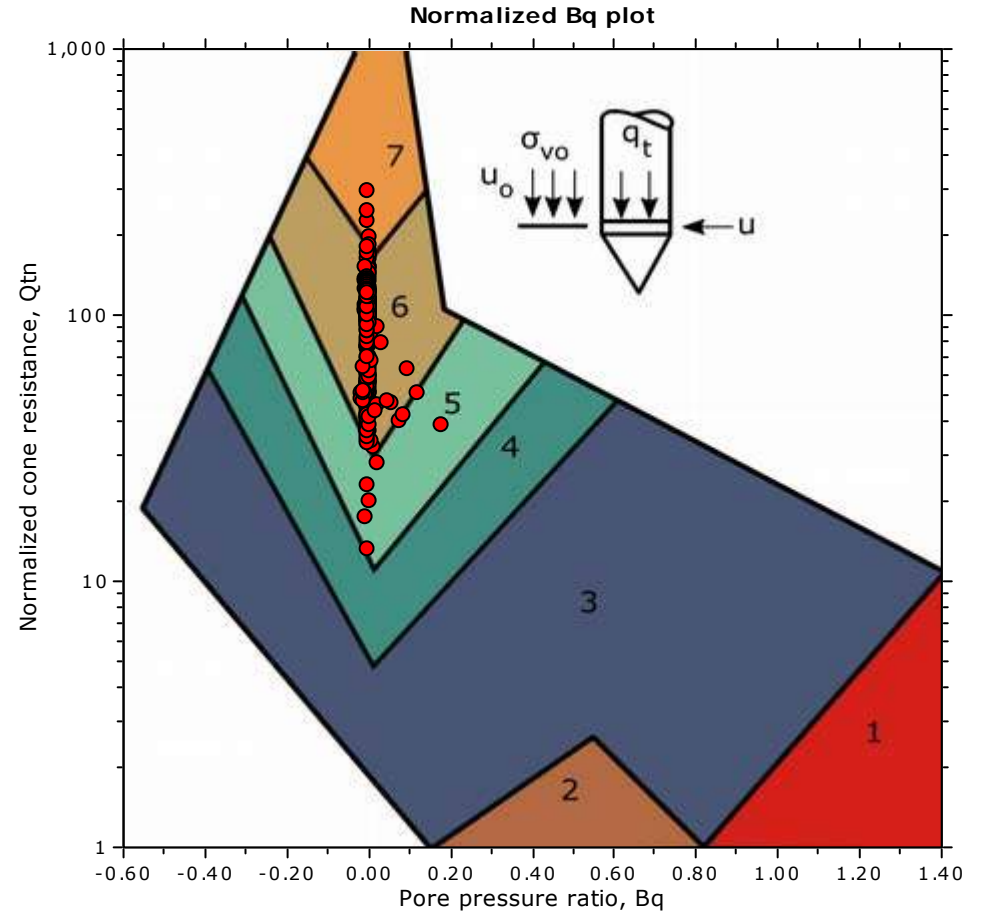
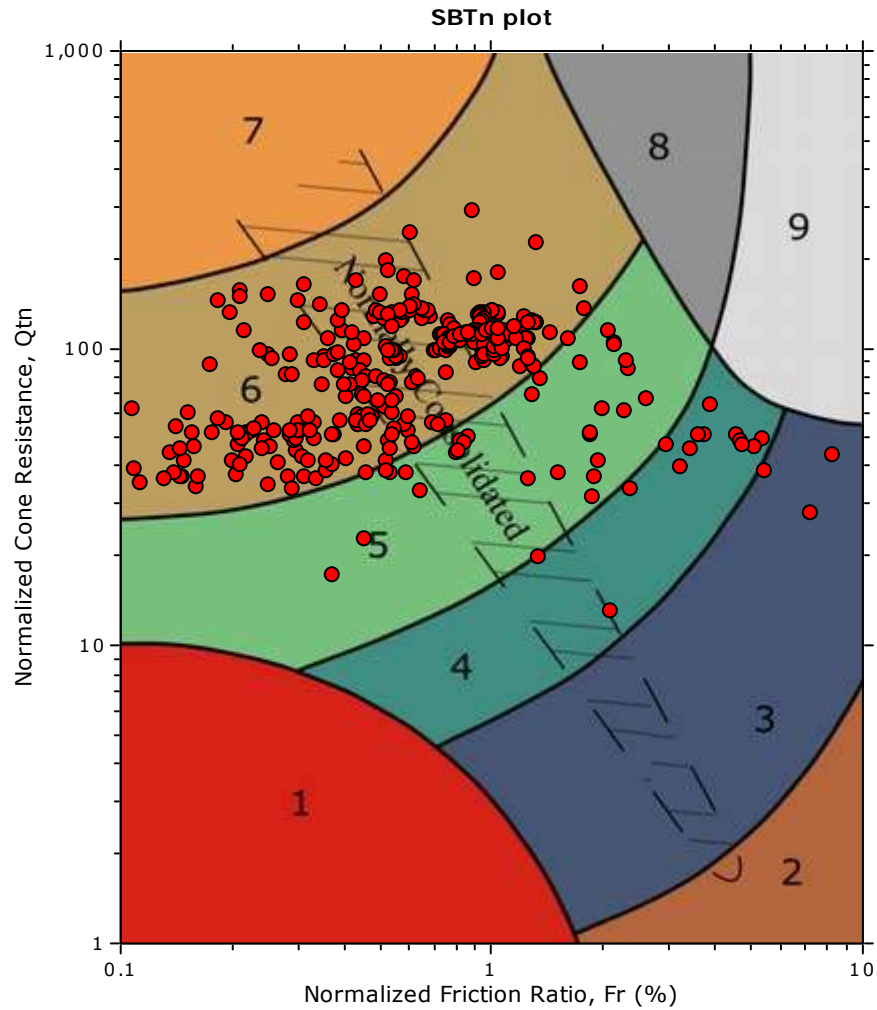
**SBT legend**

- |                                                              |                                                                       |                                                                       |
|--------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| <span style="color: red;">■</span> 1. Sensitive fine grained | <span style="color: teal;">■</span> 4. Clayey silt to silty clay      | <span style="color: orange;">■</span> 7. Gravelly sand to sand        |
| <span style="color: brown;">■</span> 2. Organic material     | <span style="color: lightgreen;">■</span> 5. Silty sand to sandy silt | <span style="color: grey;">■</span> 8. Very stiff sand to clayey sand |
| <span style="color: blue;">■</span> 3. Clay to silty clay    | <span style="color: tan;">■</span> 6. Clean sand to silty sand        | <span style="color: lightgrey;">■</span> 9. Very stiff fine grained   |





**SBT - Bq plots (normalized)**

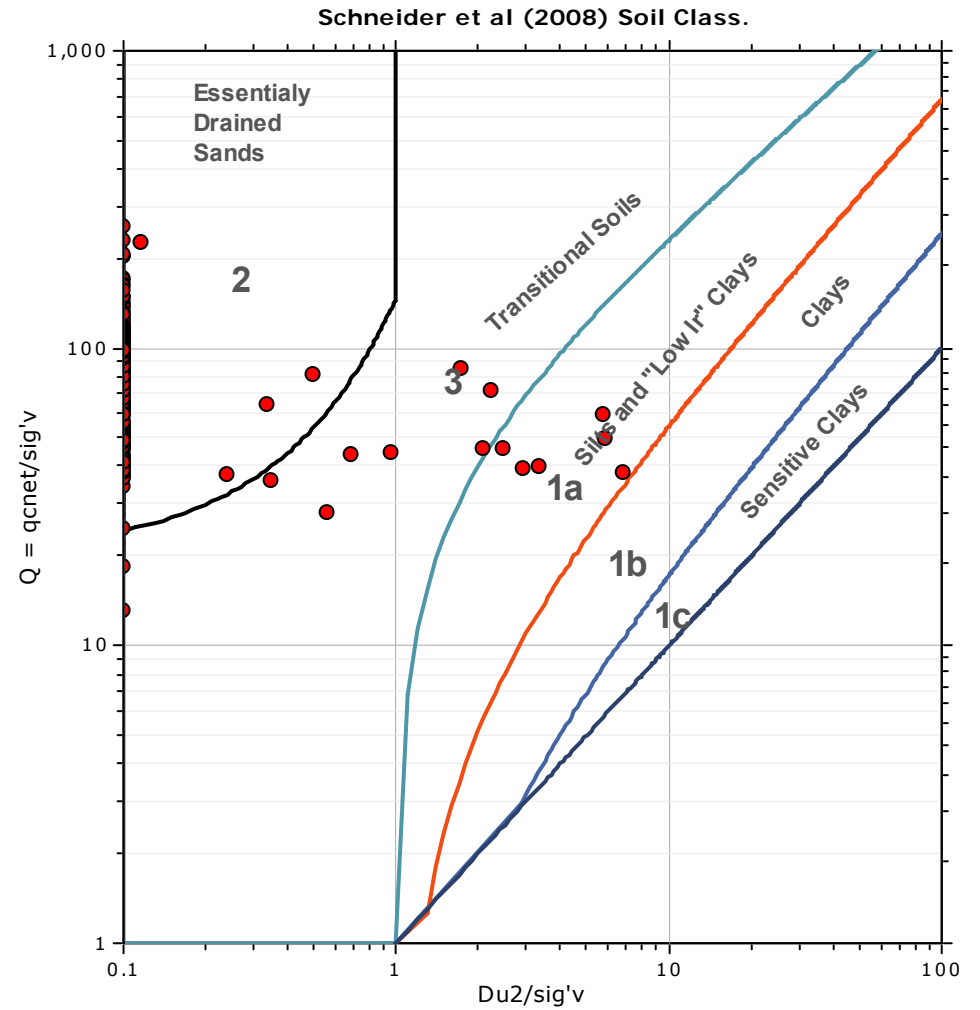
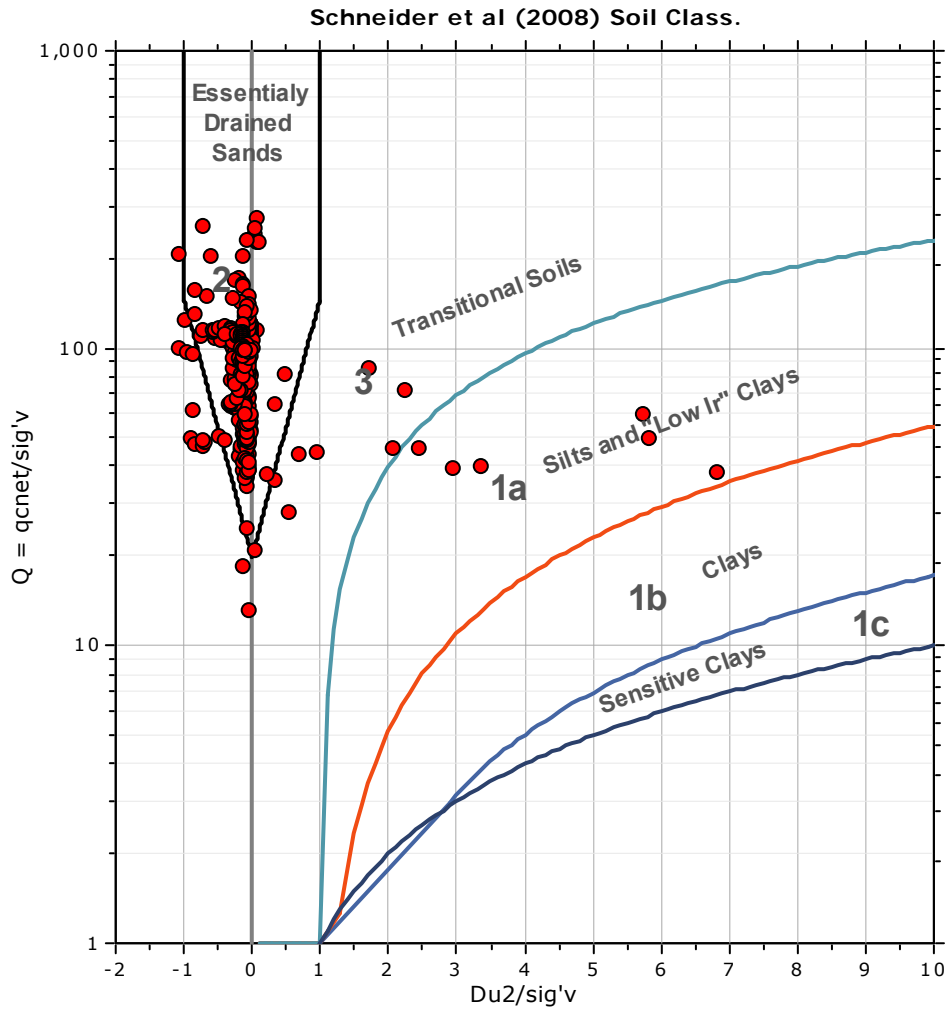


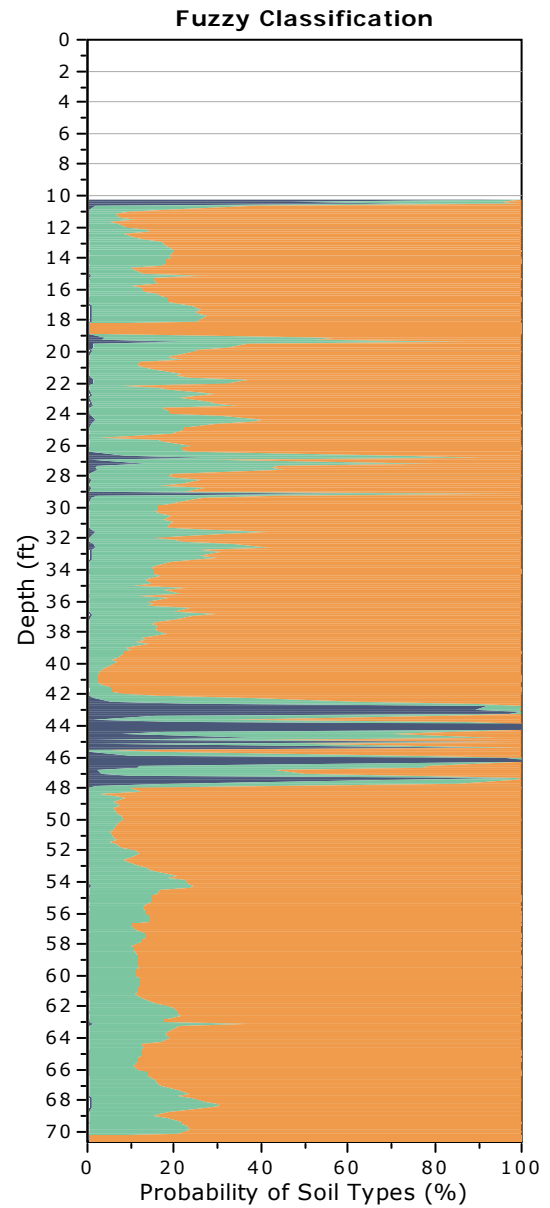
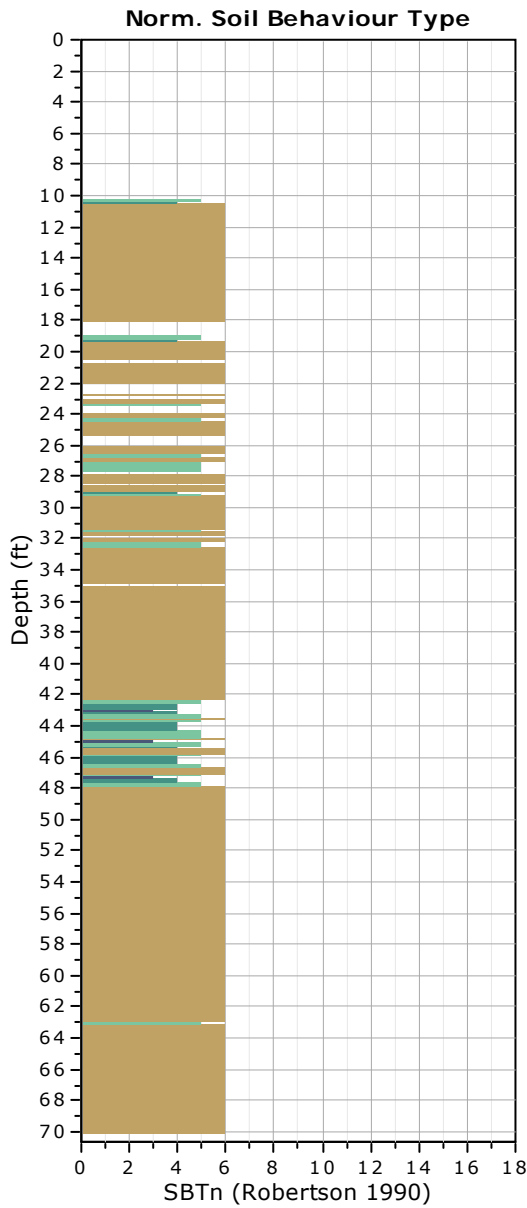
**SBTn legend**

- |                                                              |                                                                       |                                                                       |
|--------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| <span style="color: red;">■</span> 1. Sensitive fine grained | <span style="color: teal;">■</span> 4. Clayey silt to silty clay      | <span style="color: orange;">■</span> 7. Gravelly sand to sand        |
| <span style="color: brown;">■</span> 2. Organic material     | <span style="color: lightgreen;">■</span> 5. Silty sand to sandy silt | <span style="color: grey;">■</span> 8. Very stiff sand to clayey sand |
| <span style="color: blue;">■</span> 3. Clay to silty clay    | <span style="color: tan;">■</span> 6. Clean sand to silty sand        | <span style="color: lightgrey;">■</span> 9. Very stiff fine grained   |



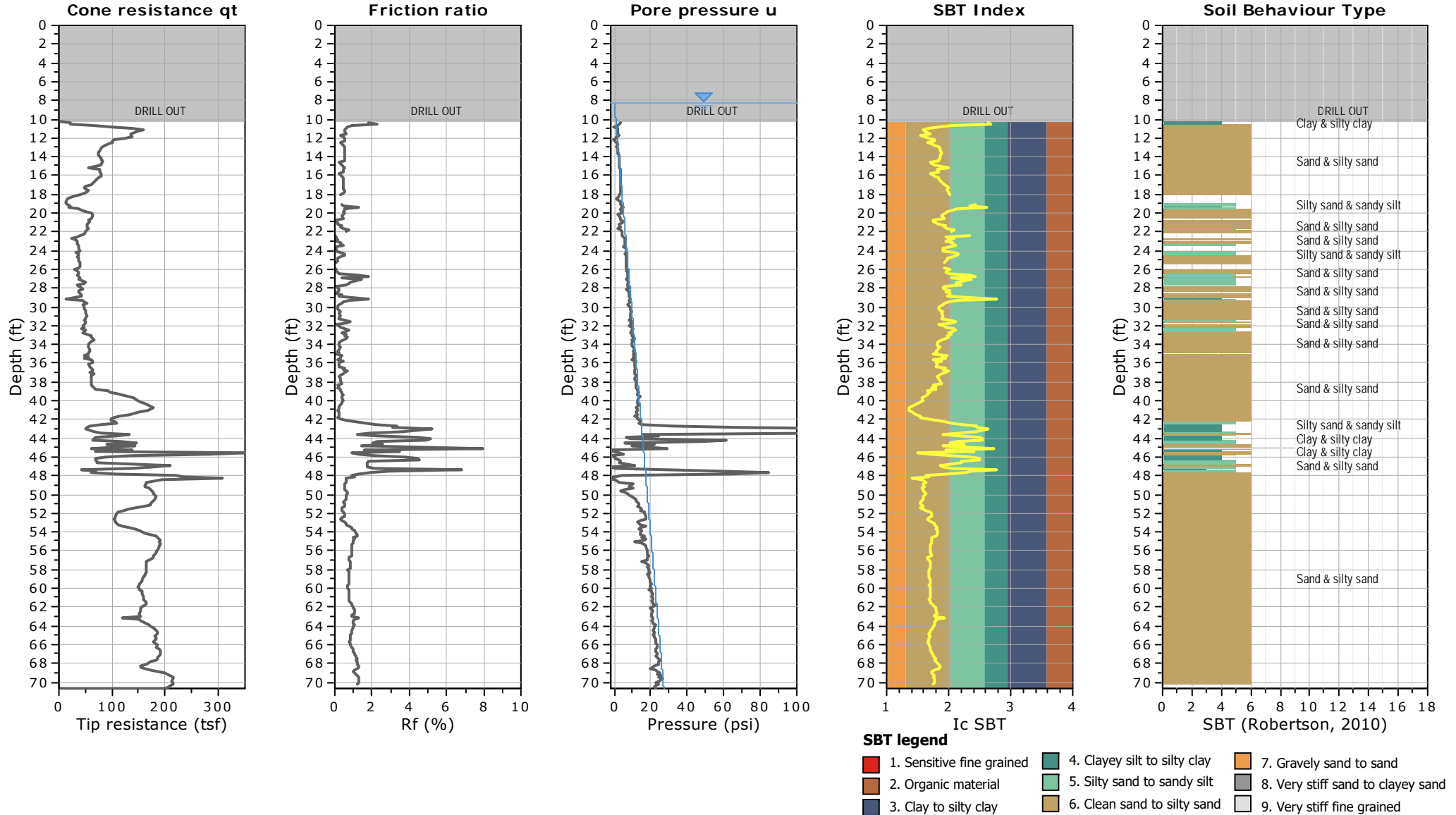
### Bq plots (Schneider)

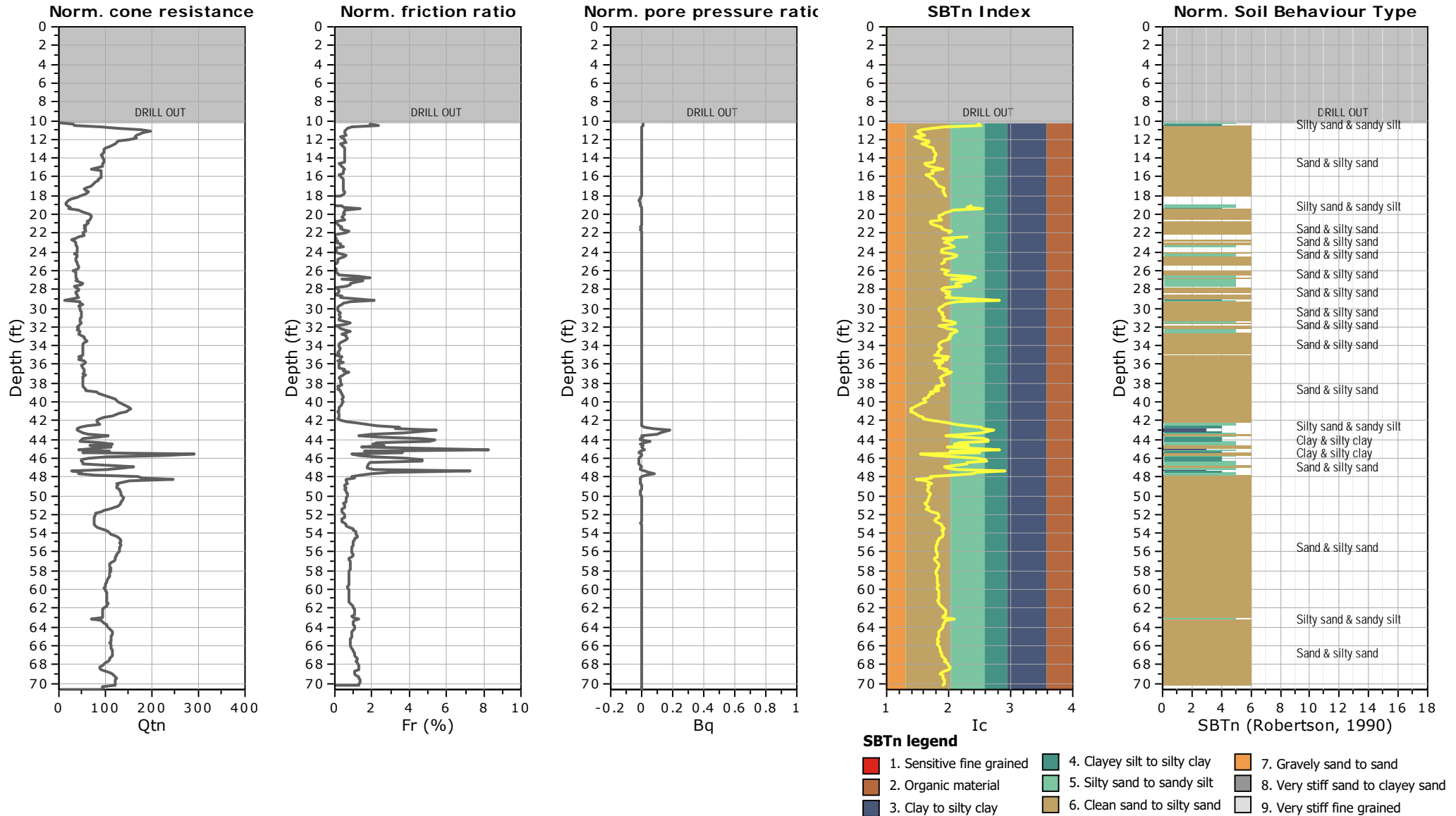


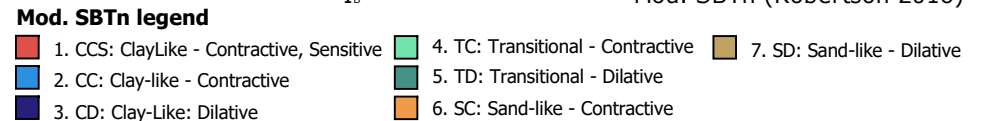
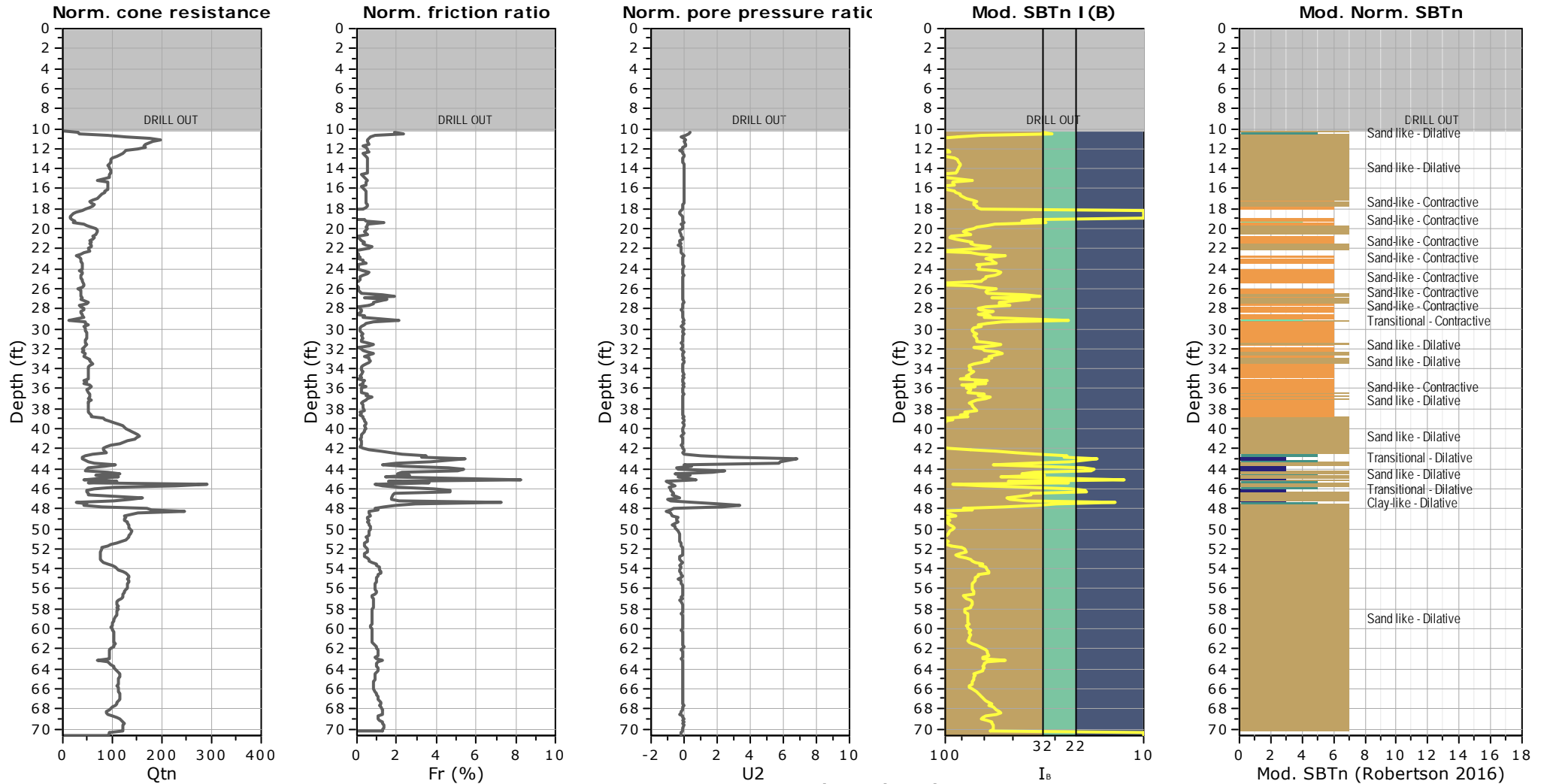


**Fuzzy classification legend**

- Highly probable clayey soil
- Highly probable mixture soil
- Highly probable sandy soil

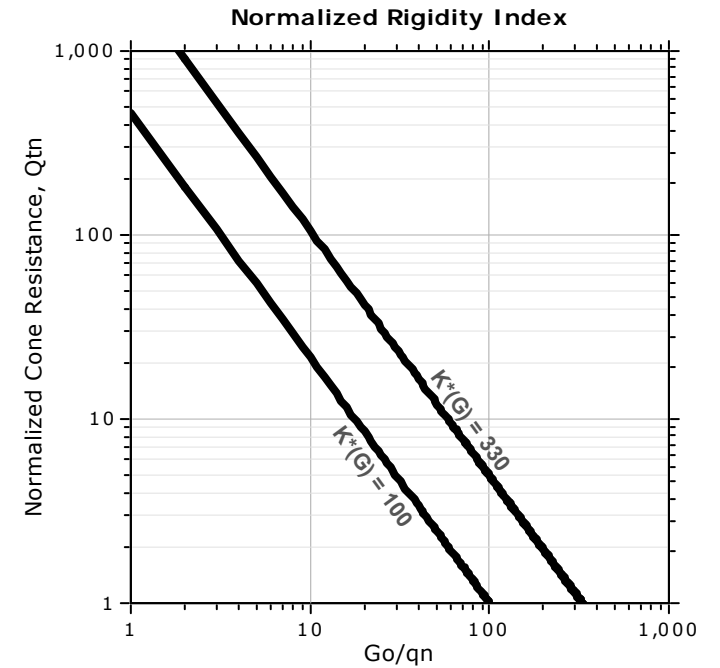
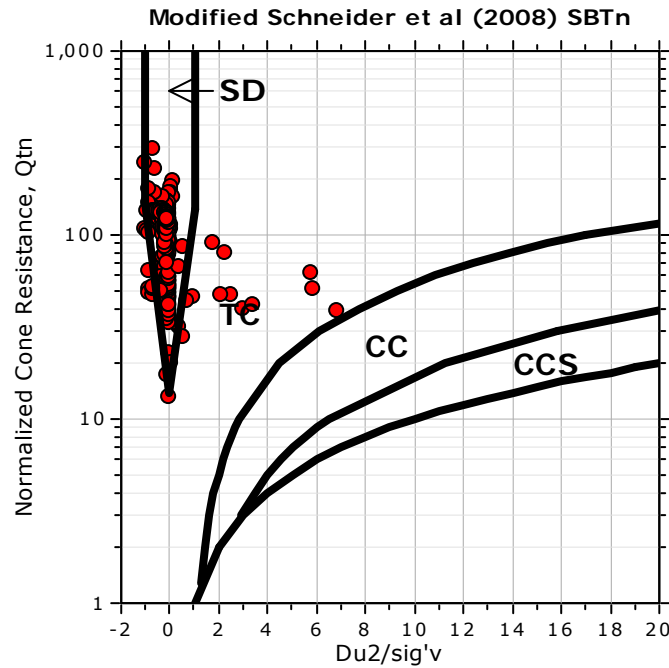
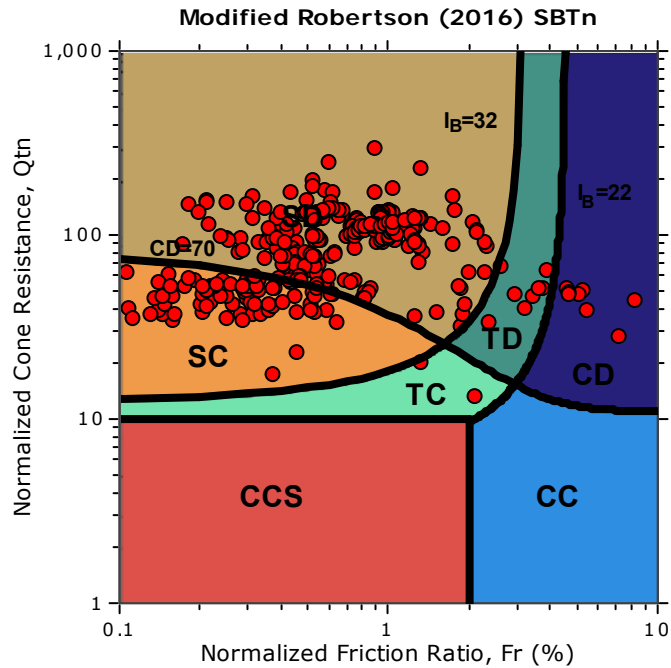






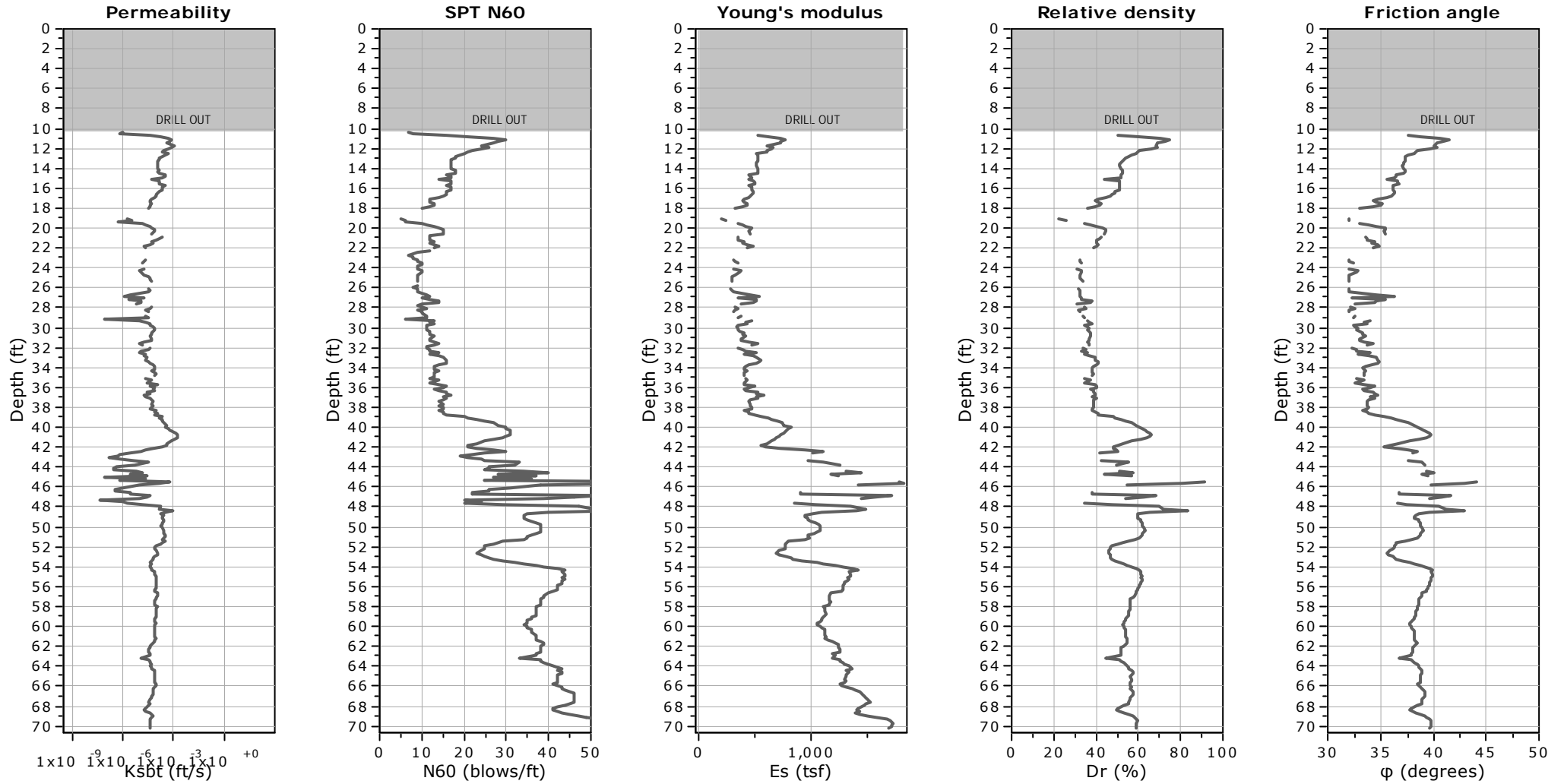


**Updated SBTn plots**



- CCS: Clay-like - Contractive - Sensitive
- CC: Clay-like - Contractive
- CD: Clay-like - Dilative
- TC: Transitional - Contractive
- TD: Transitional - Dilative
- SC: Sand-like - Contractive
- SD: Sand-like - Dilative

$K^*(G) > 330$ : Soils with significant microstructure (e.g. age/cementation)



**Calculation parameters**

Permeability: Based on SBT<sub>n</sub>

SPT N<sub>60</sub>: Based on I<sub>c</sub> and q<sub>t</sub>

Young's modulus: Based on variable alpha using I<sub>c</sub> (Robertson, 2009)

Relative density constant, C<sub>Dr</sub>: 350.0

Phi: Based on Kulhawy & Mayne (1990)





**Craig Geotechnical Drilling**

5230 Atlantic Ave

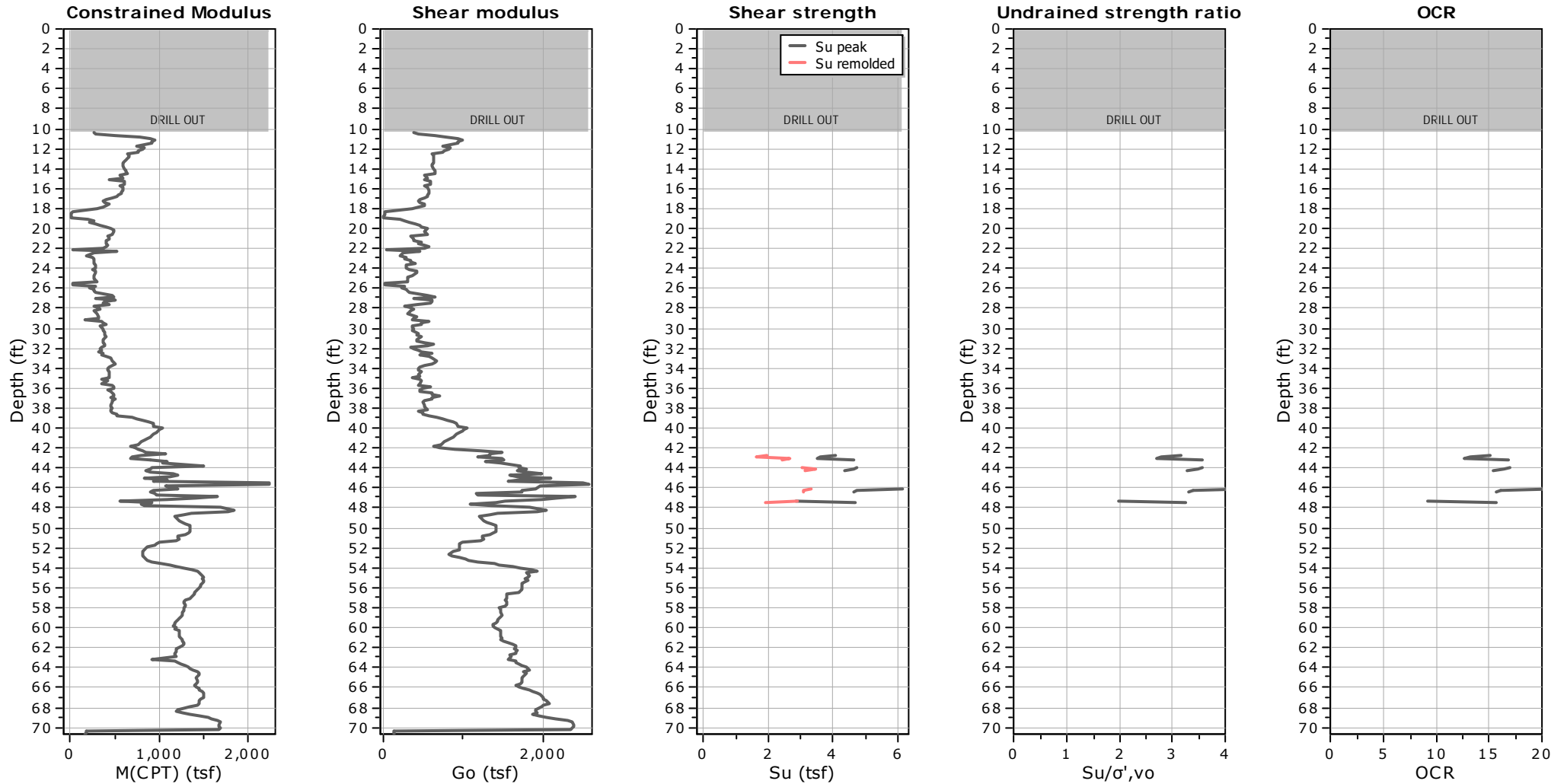
Mays Landing, NJ

**Project: Langan**

**Location: 145 Wolcott St, Brooklyn NY**

**CPT-6**

Total depth: 70.67 ft



**Calculation parameters**

Constrained modulus: Based on variable  $\alpha$  using  $I_c$  and  $Q_{tn}$  (Robertson, 2009)

Go: Based on variable  $\alpha$  using  $I_c$  (Robertson, 2009)

Undrained shear strength cone factor for clays,  $N_{kt}$ : 14

OCR factor for clays,  $N_{kt}$ : 0.33

● Flat Dilatometer Test data

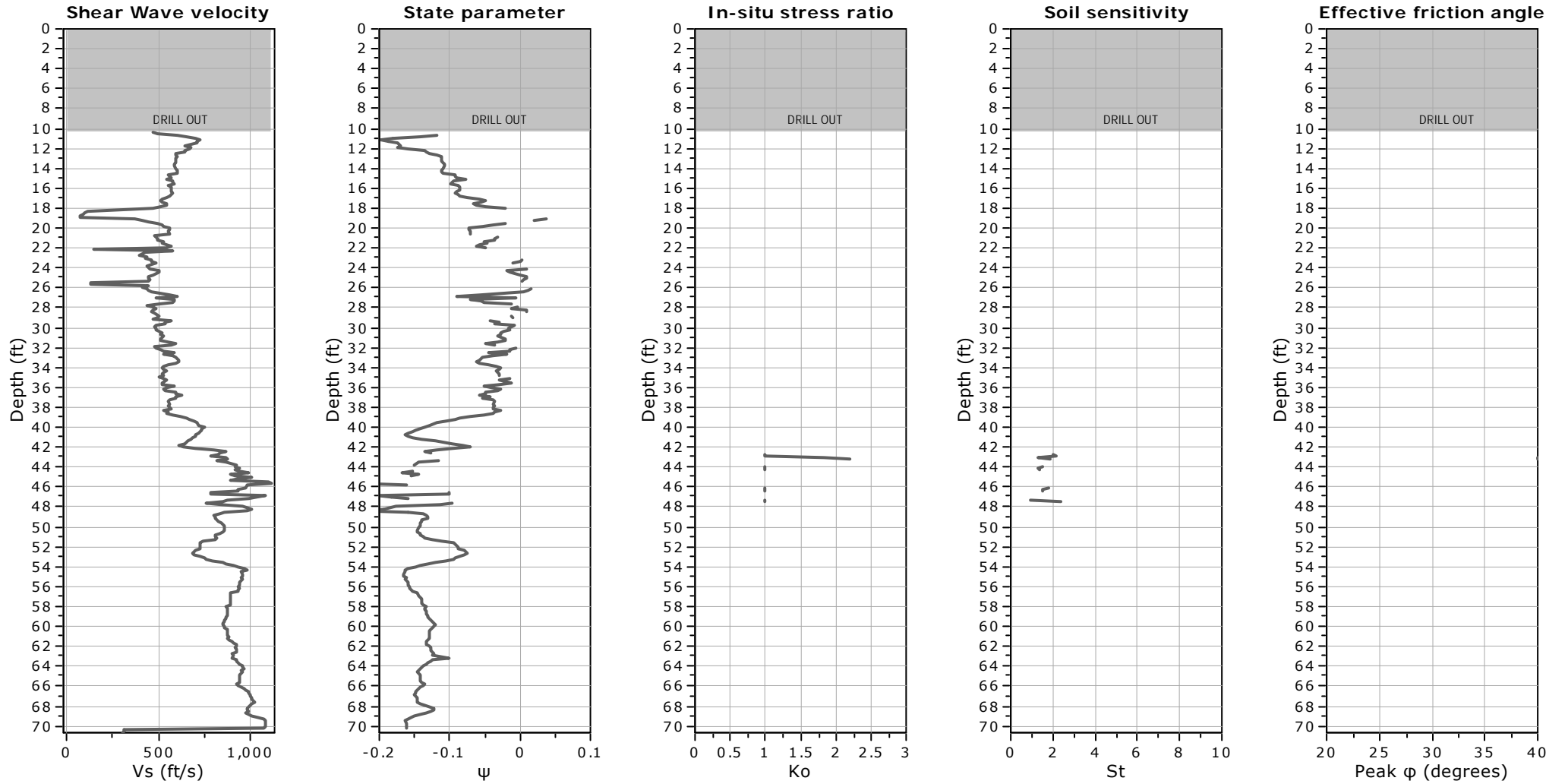


Project: Langan

Location: 145 Wolcott St, Brooklyn NY

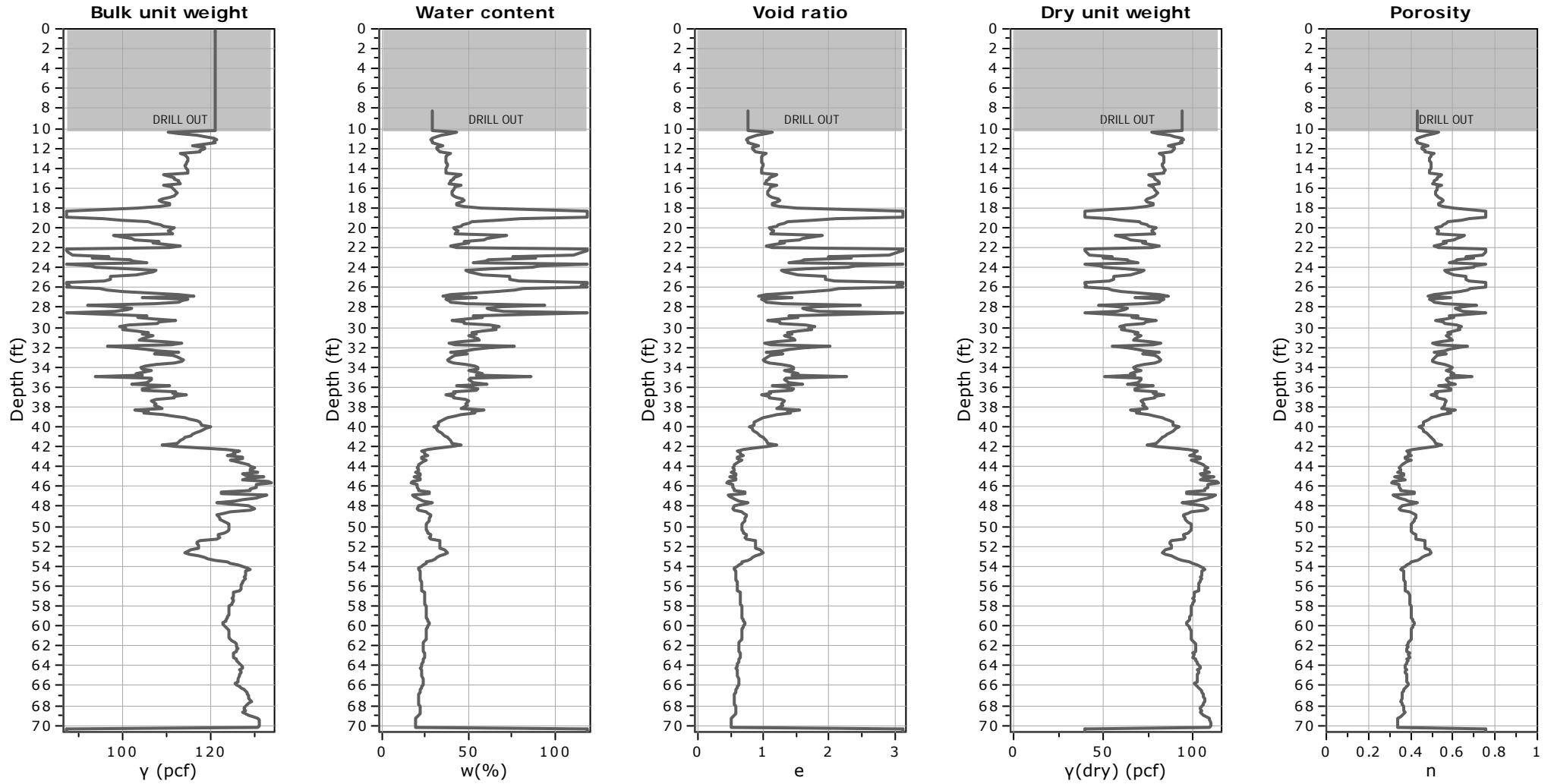
CPT-6

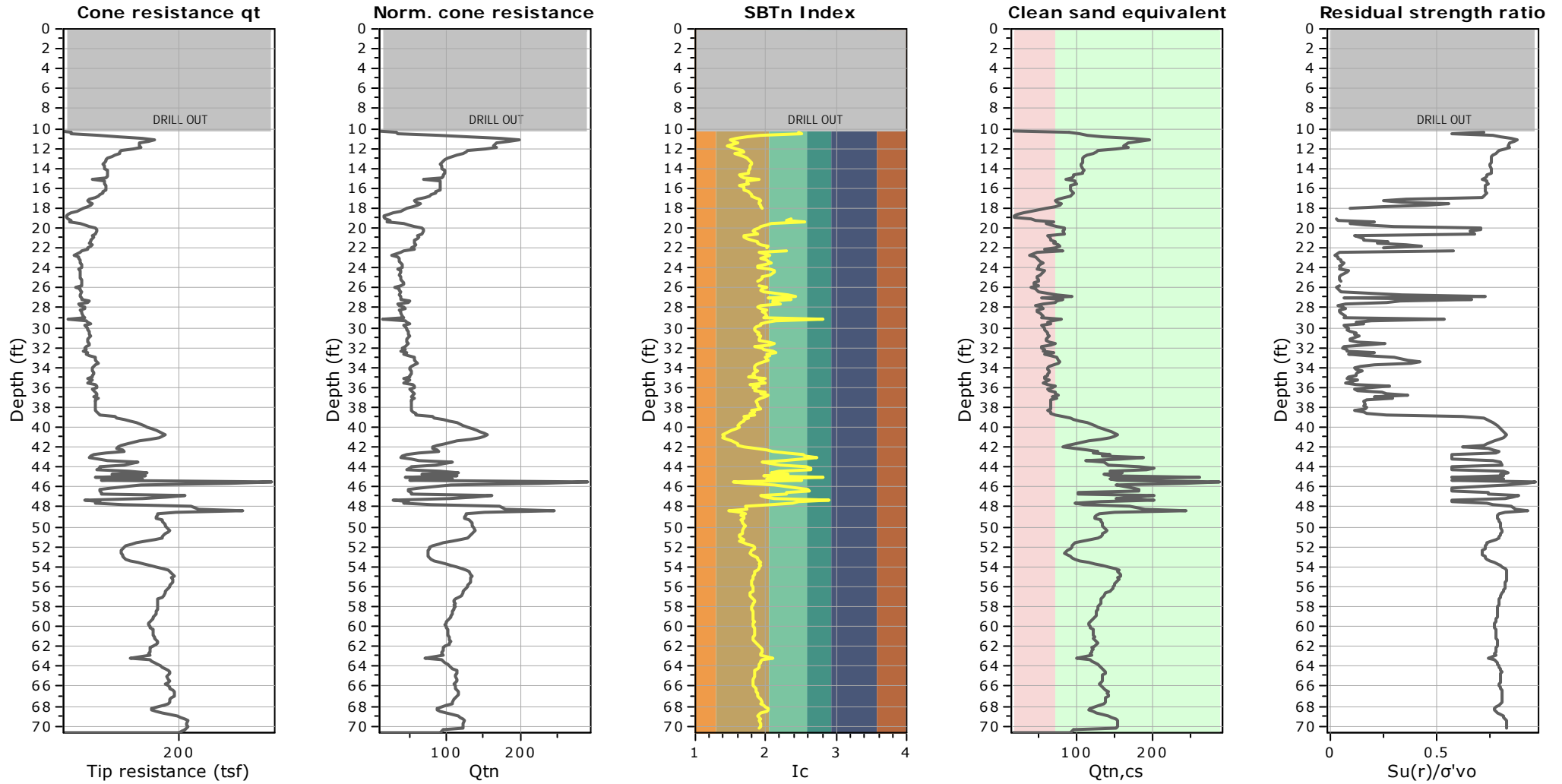
Total depth: 70.67 ft

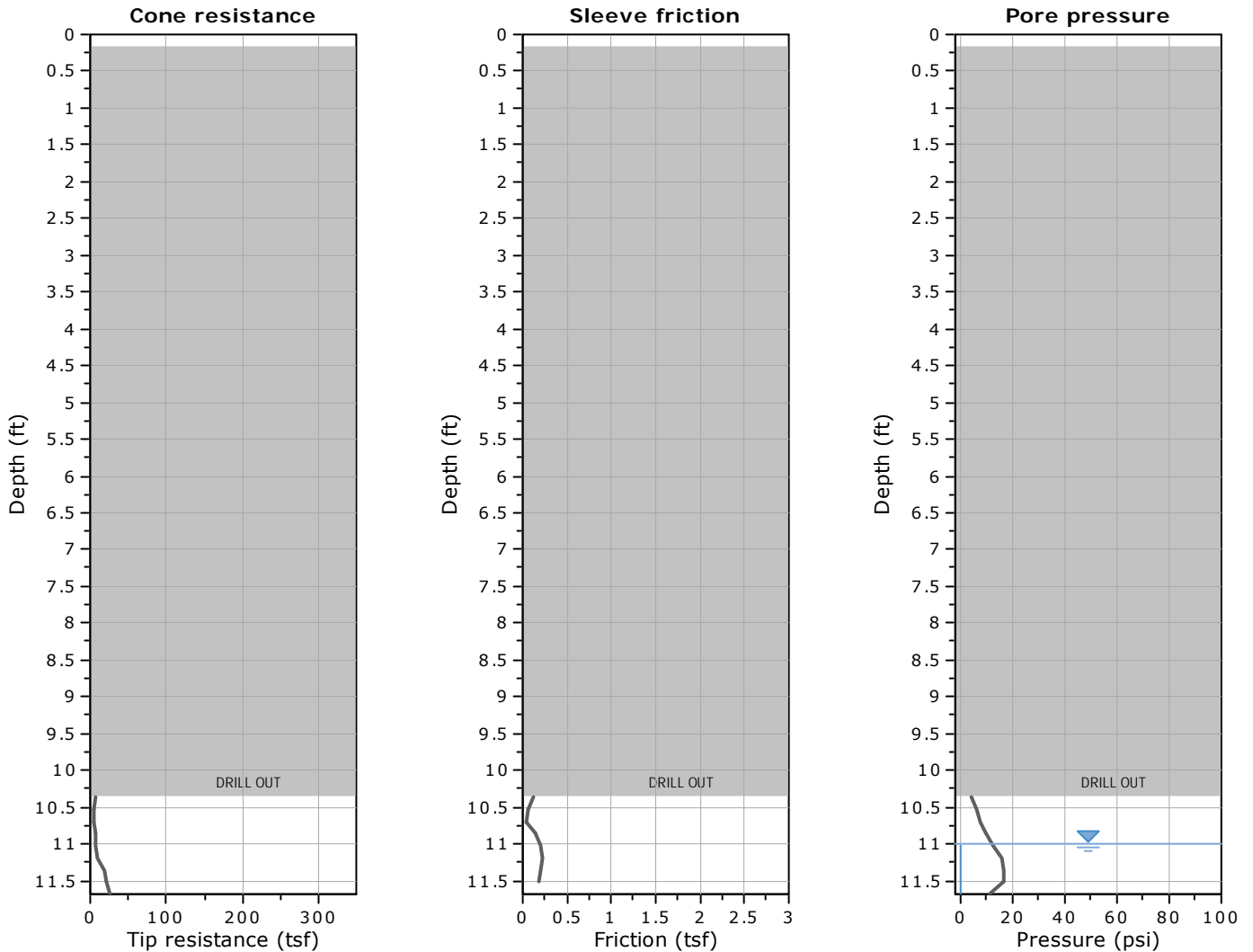


**Calculation parameters**

Soil Sensitivity factor,  $N_s$ : 7.00

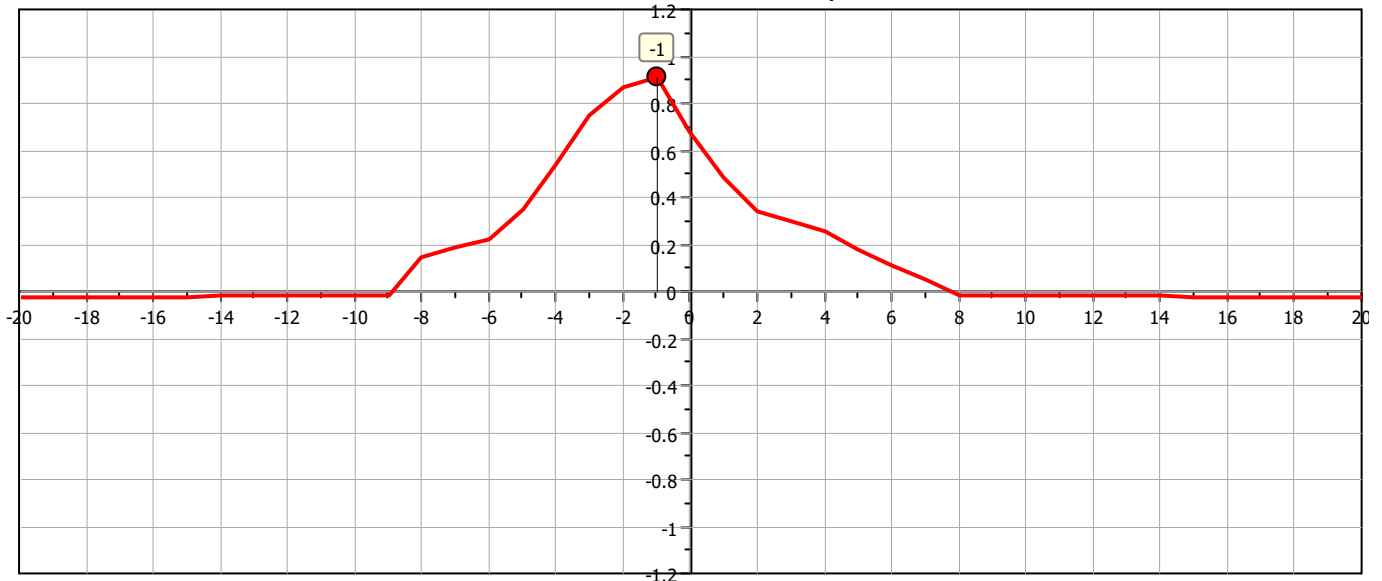






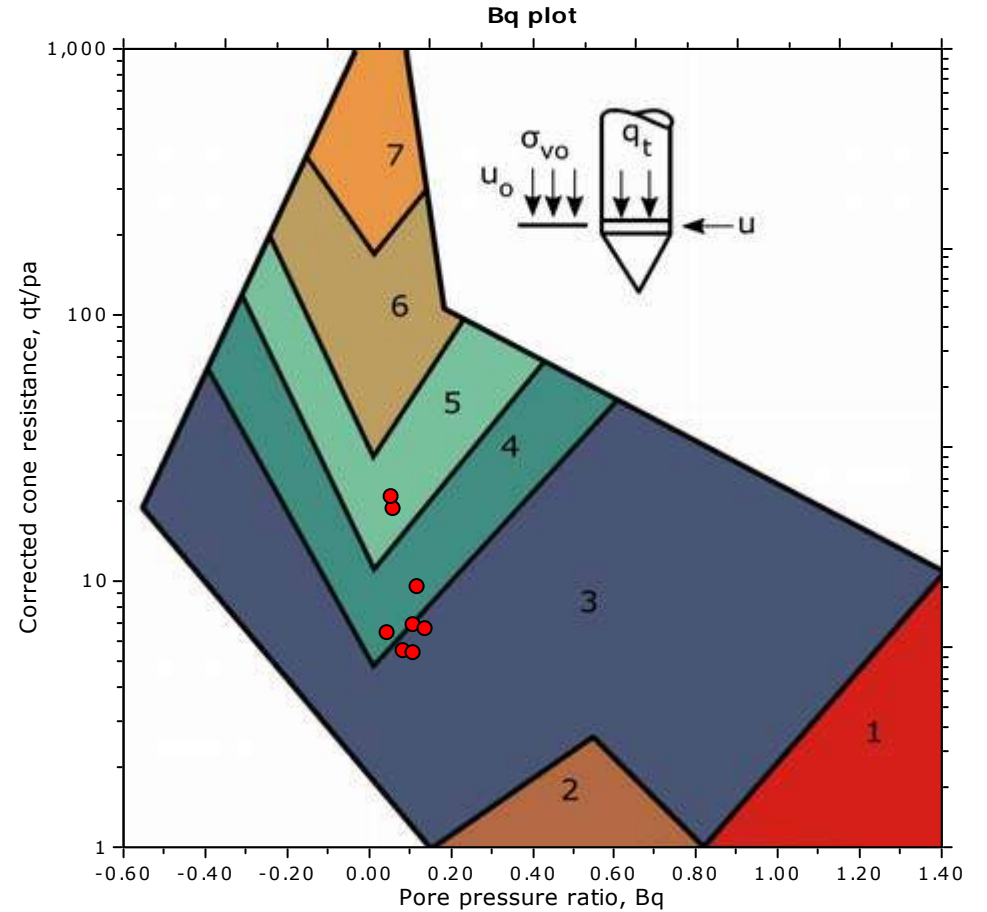
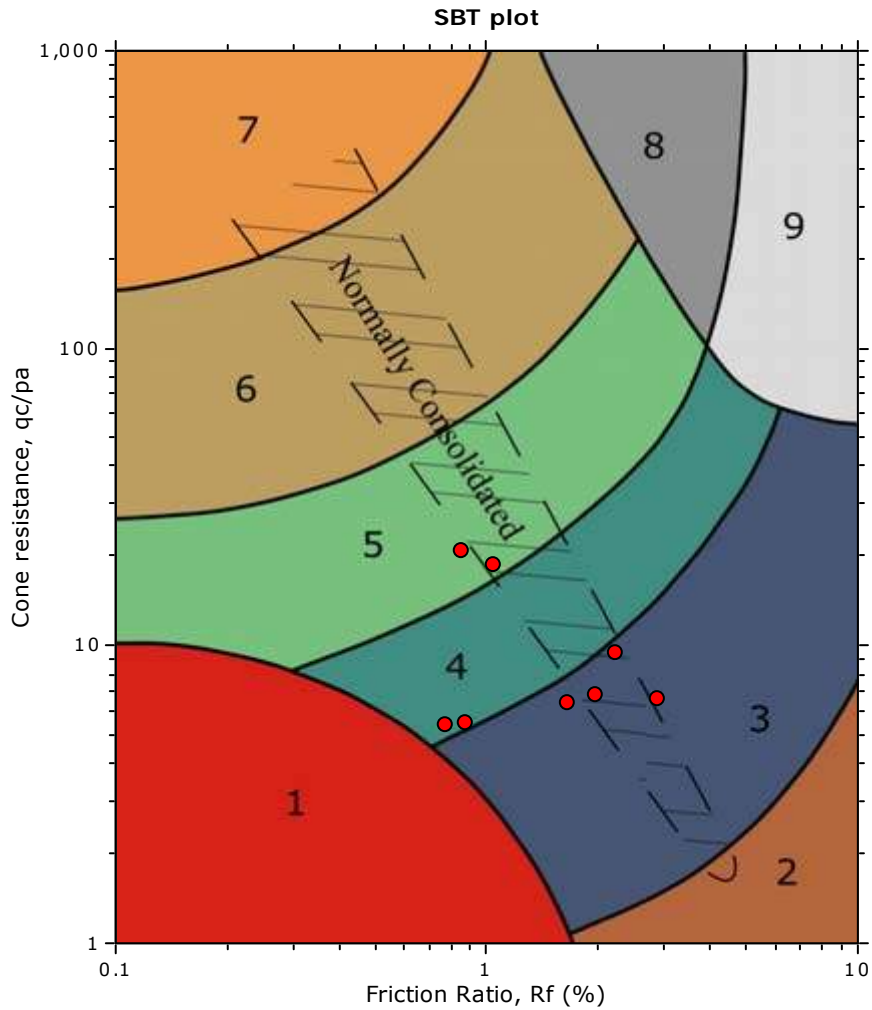
The plot below presents the cross correlation coefficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two successive CPT measurements).

Cross correlation between qc & fs





**SBT - Bq plots**

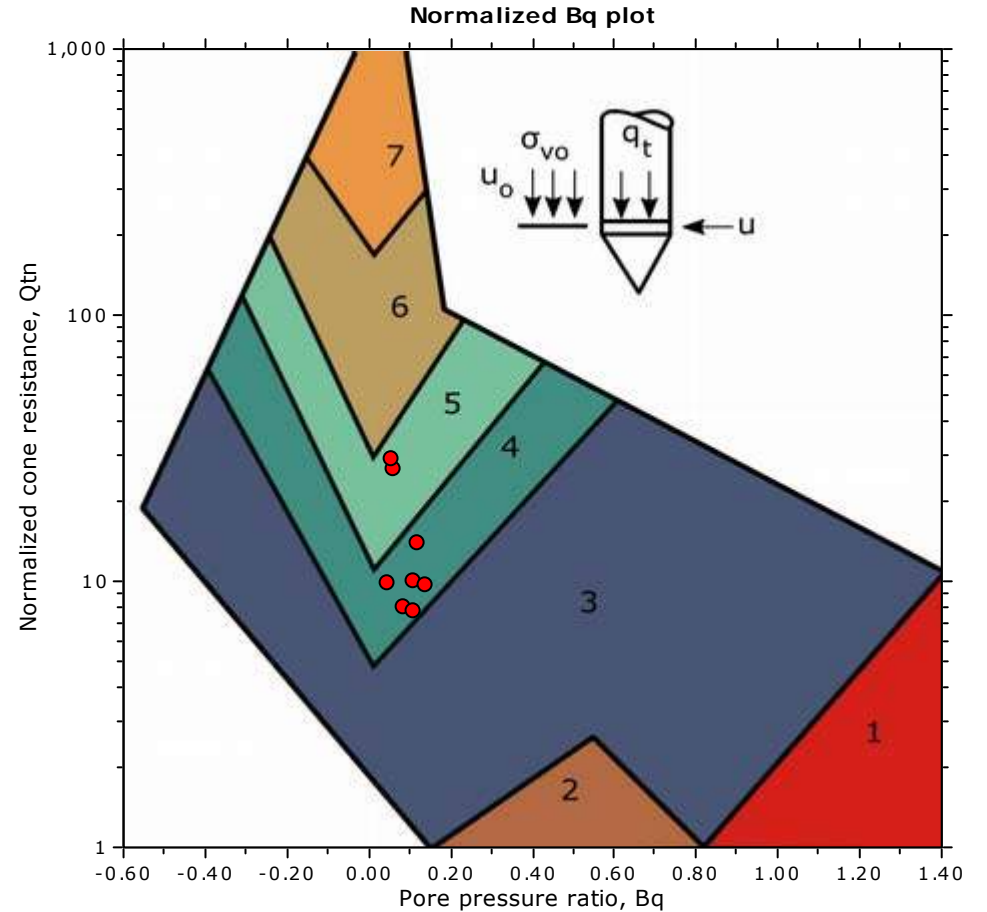
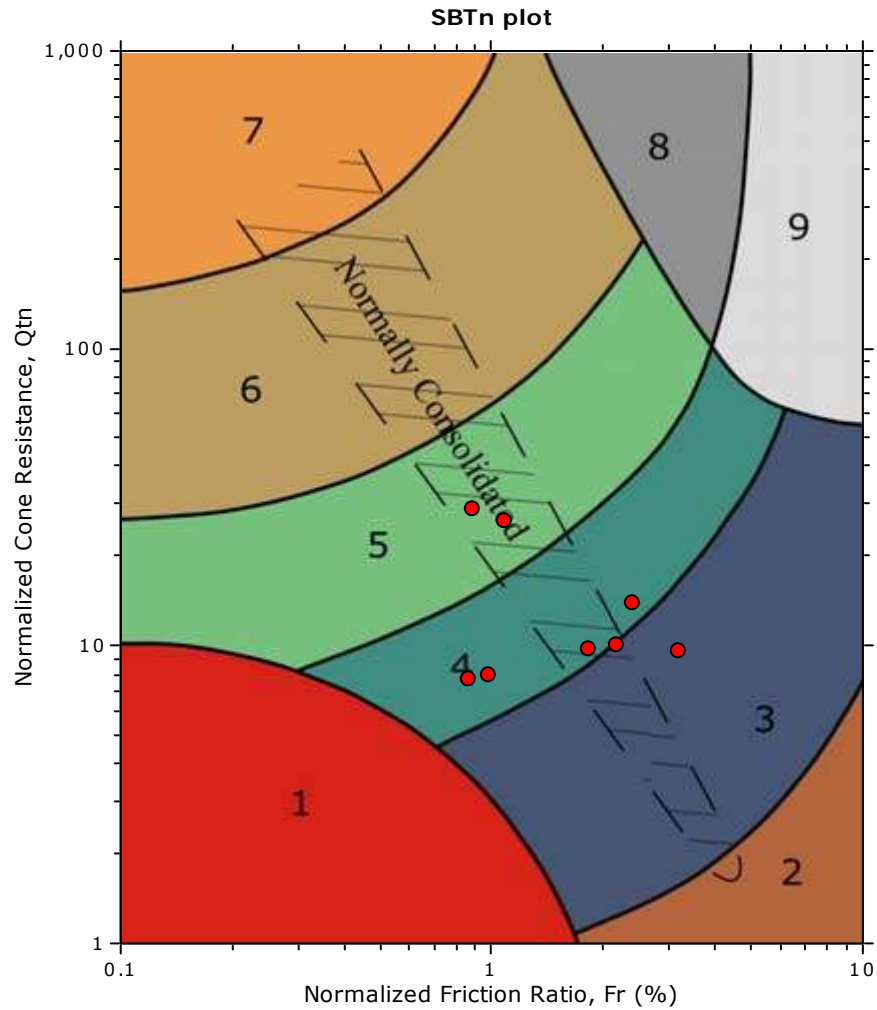


**SBT legend**

- |                                                              |                                                                       |                                                                       |
|--------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| <span style="color: red;">■</span> 1. Sensitive fine grained | <span style="color: teal;">■</span> 4. Clayey silt to silty clay      | <span style="color: orange;">■</span> 7. Gravelly sand to sand        |
| <span style="color: brown;">■</span> 2. Organic material     | <span style="color: lightgreen;">■</span> 5. Silty sand to sandy silt | <span style="color: grey;">■</span> 8. Very stiff sand to clayey sand |
| <span style="color: blue;">■</span> 3. Clay to silty clay    | <span style="color: tan;">■</span> 6. Clean sand to silty sand        | <span style="color: lightgrey;">■</span> 9. Very stiff fine grained   |



**SBT - Bq plots (normalized)**

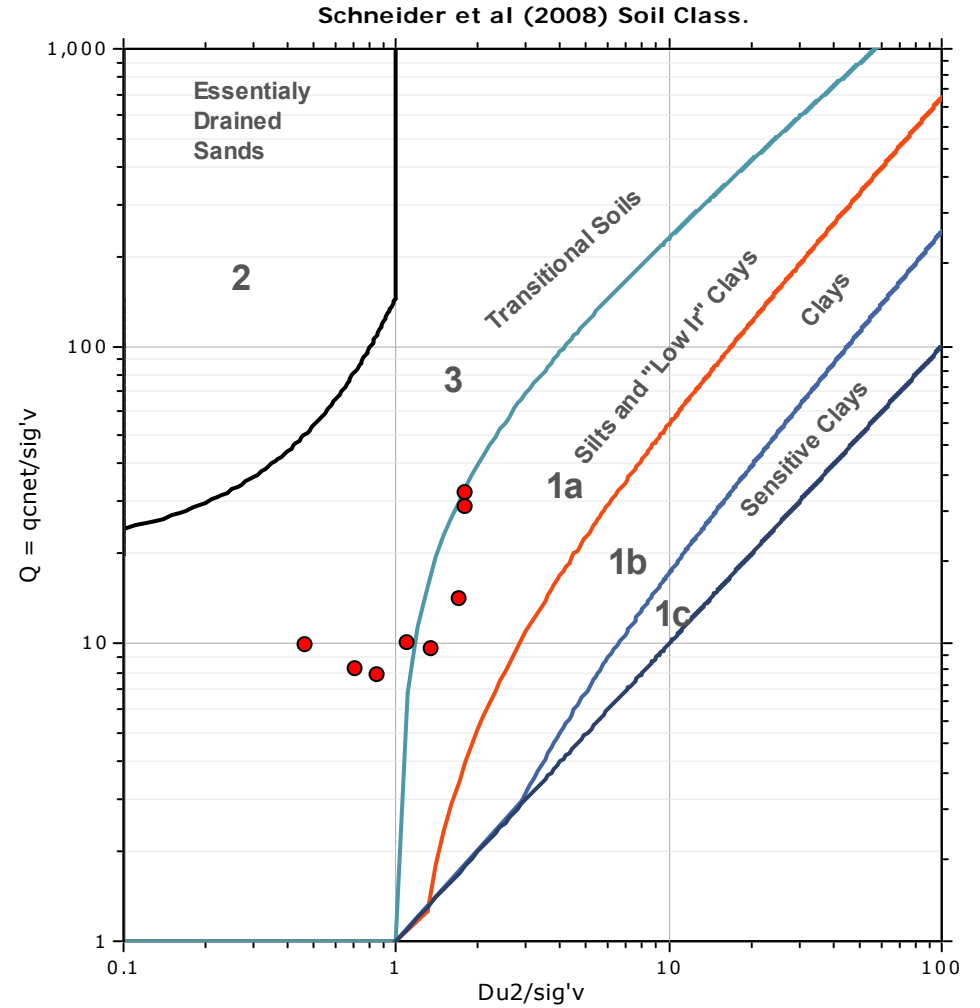
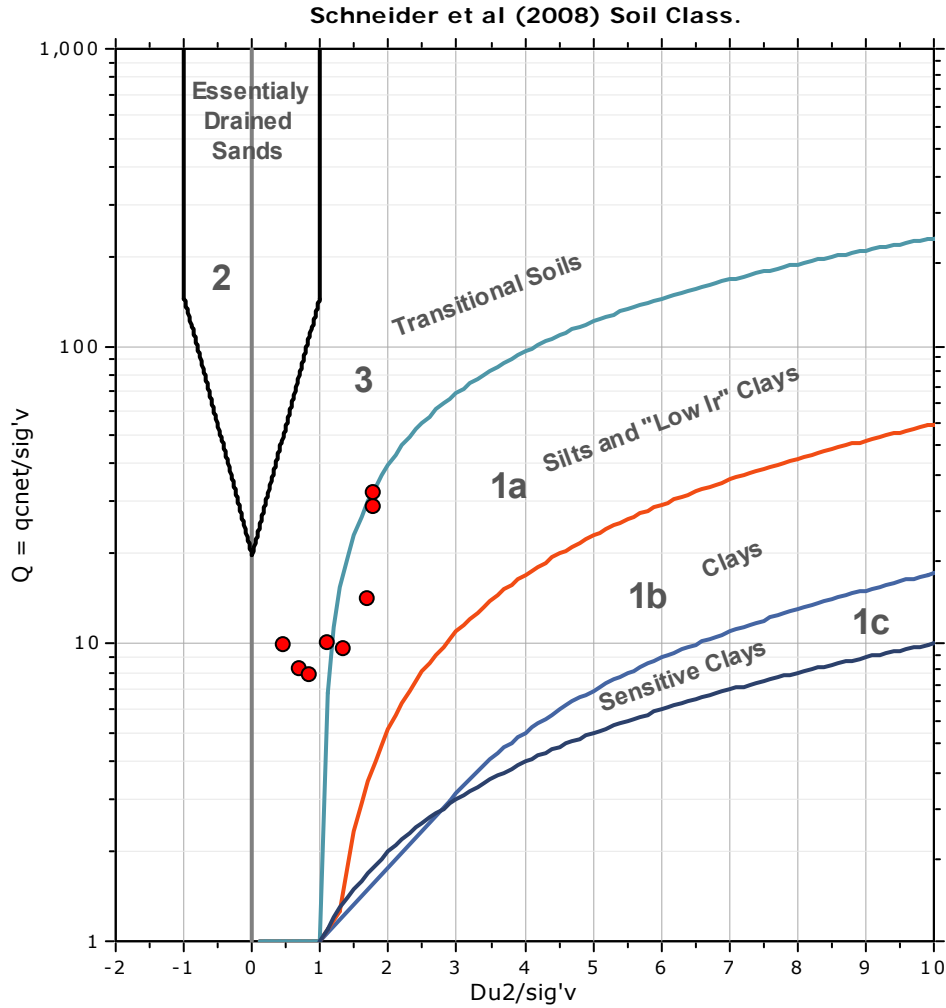


**SBTn legend**

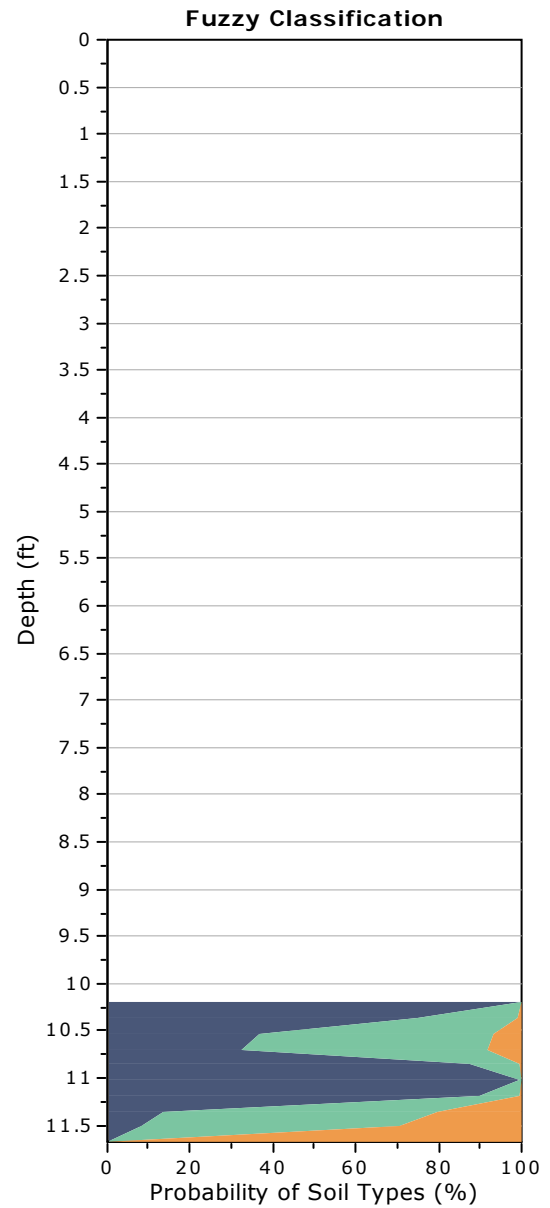
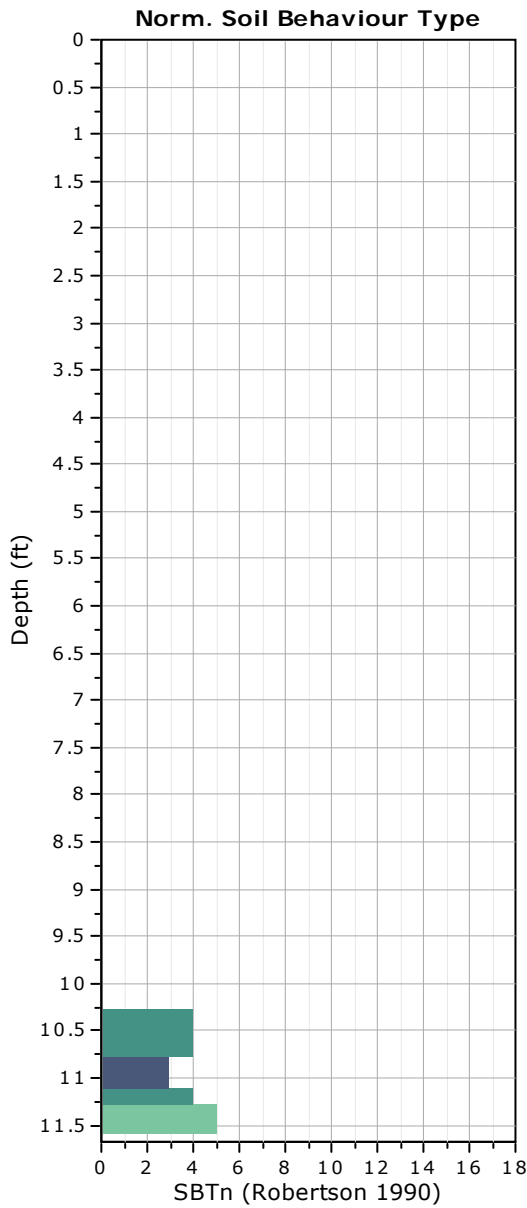
- |                                                              |                                                                       |                                                                       |
|--------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| <span style="color: red;">■</span> 1. Sensitive fine grained | <span style="color: teal;">■</span> 4. Clayey silt to silty clay      | <span style="color: orange;">■</span> 7. Gravelly sand to sand        |
| <span style="color: brown;">■</span> 2. Organic material     | <span style="color: lightgreen;">■</span> 5. Silty sand to sandy silt | <span style="color: grey;">■</span> 8. Very stiff sand to clayey sand |
| <span style="color: blue;">■</span> 3. Clay to silty clay    | <span style="color: tan;">■</span> 6. Clean sand to silty sand        | <span style="color: lightgrey;">■</span> 9. Very stiff fine grained   |



### Bq plots (Schneider)

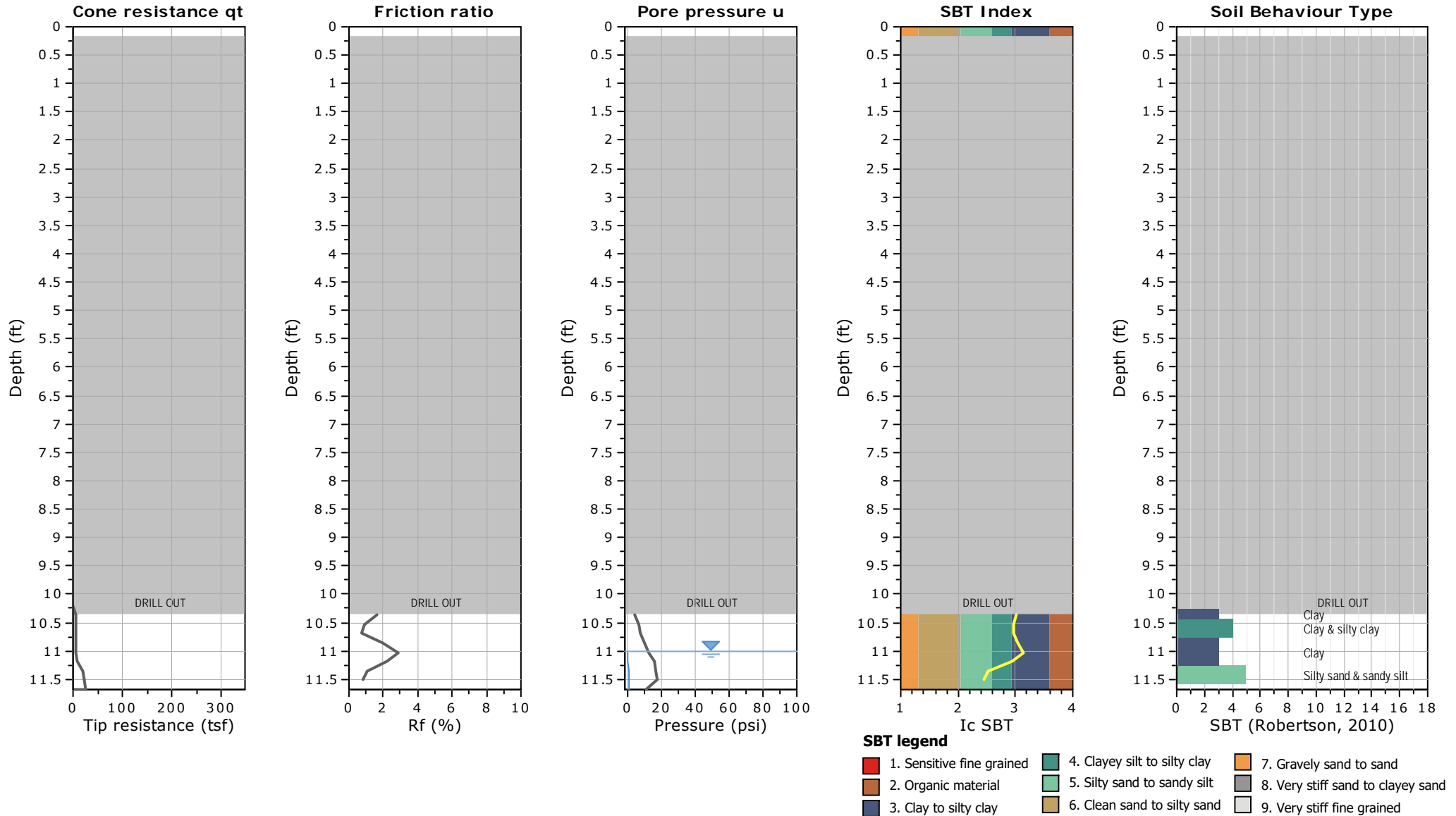






**Fuzzy classification legend**

- Highly probable clayey soil
- Highly probable mixture soil
- Highly probable sandy soil



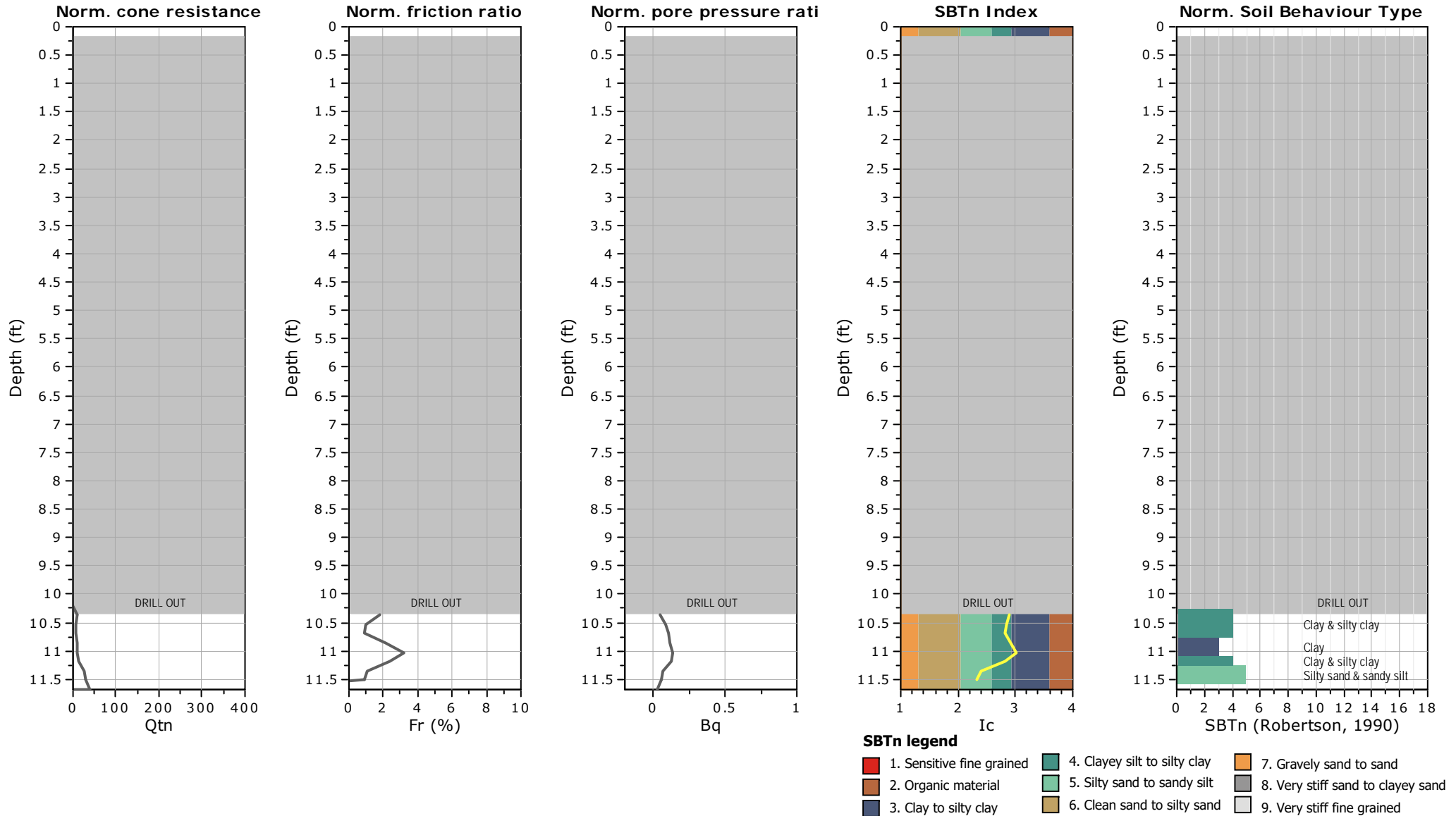


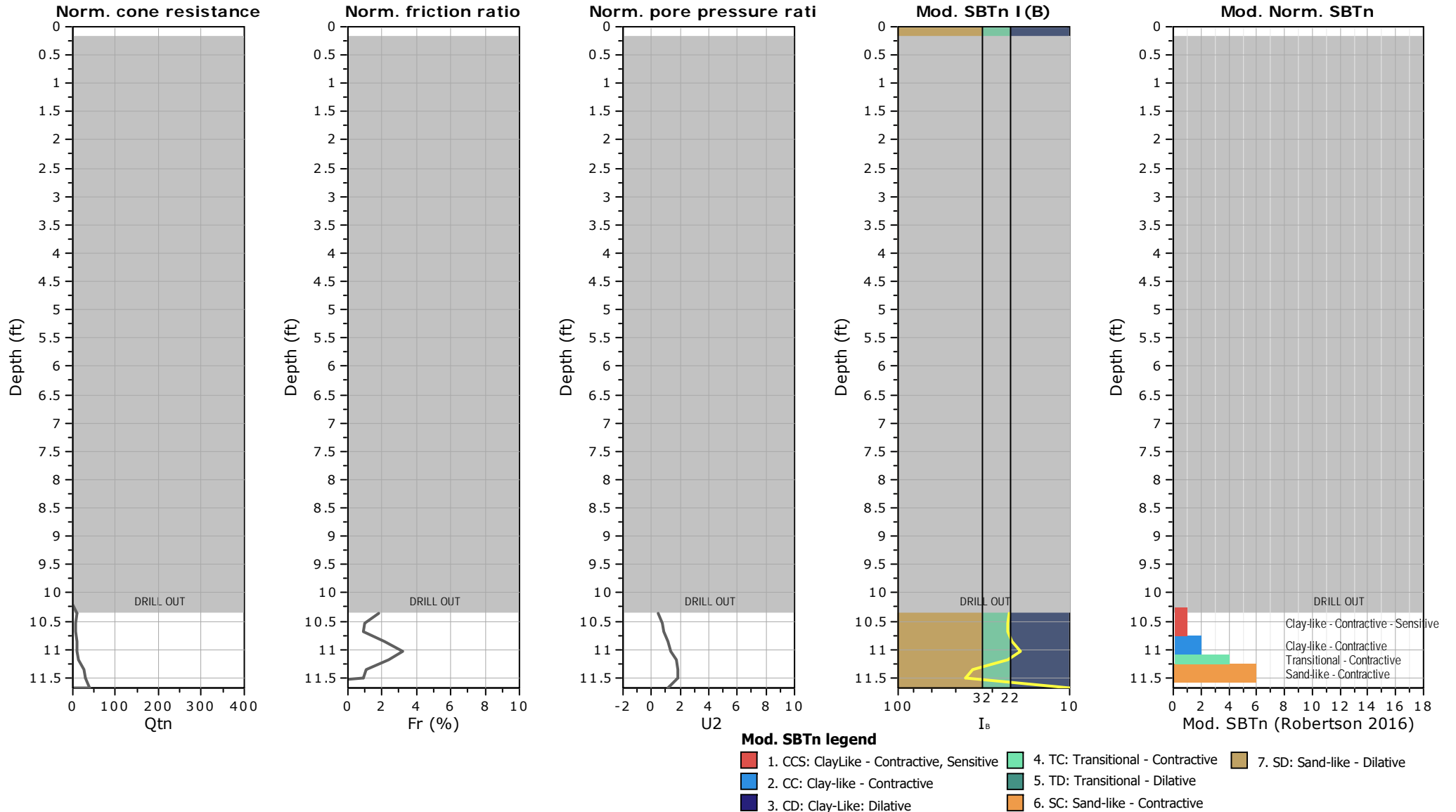
**Project: Langan**

**Location: 145 Wolcott St, Brooklyn NY**

**CPT-7**

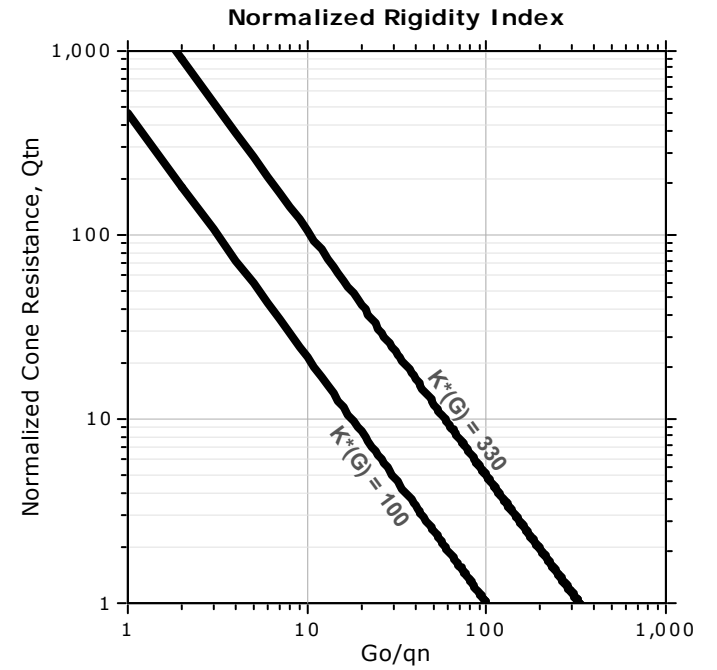
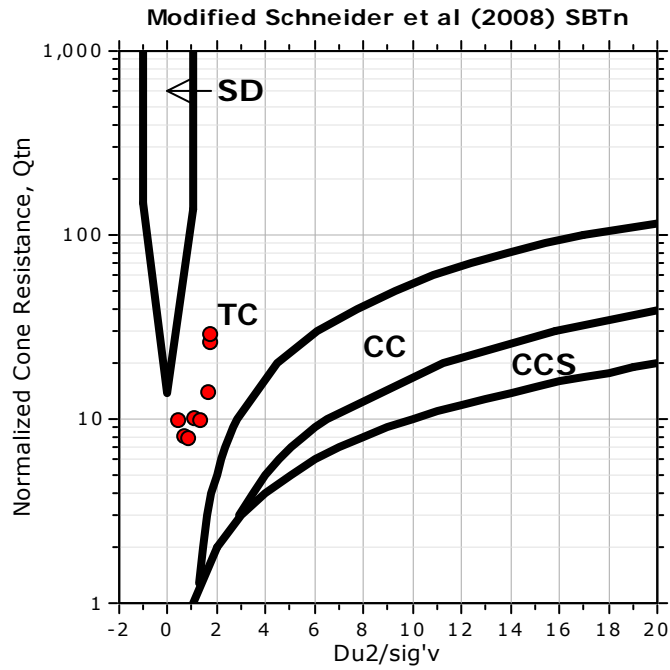
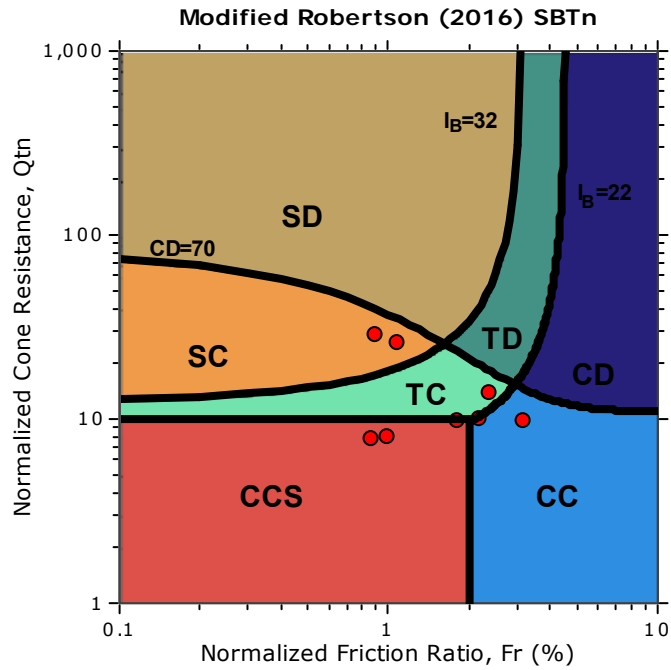
Total depth: 11.68 ft







**Updated SBTn plots**



- CCS: Clay-like - Contractive - Sensitive
- CC: Clay-like - Contractive
- CD: Clay-like - Dilative
- TC: Transitional - Contractive
- TD: Transitional - Dilative
- SC: Sand-like - Contractive
- SD: Sand-like - Dilative

$K^*(G) > 330$ : Soils with significant microstructure (e.g. age/cementation)



**Craig Geotechnical Drilling**

5230 Atlantic Ave

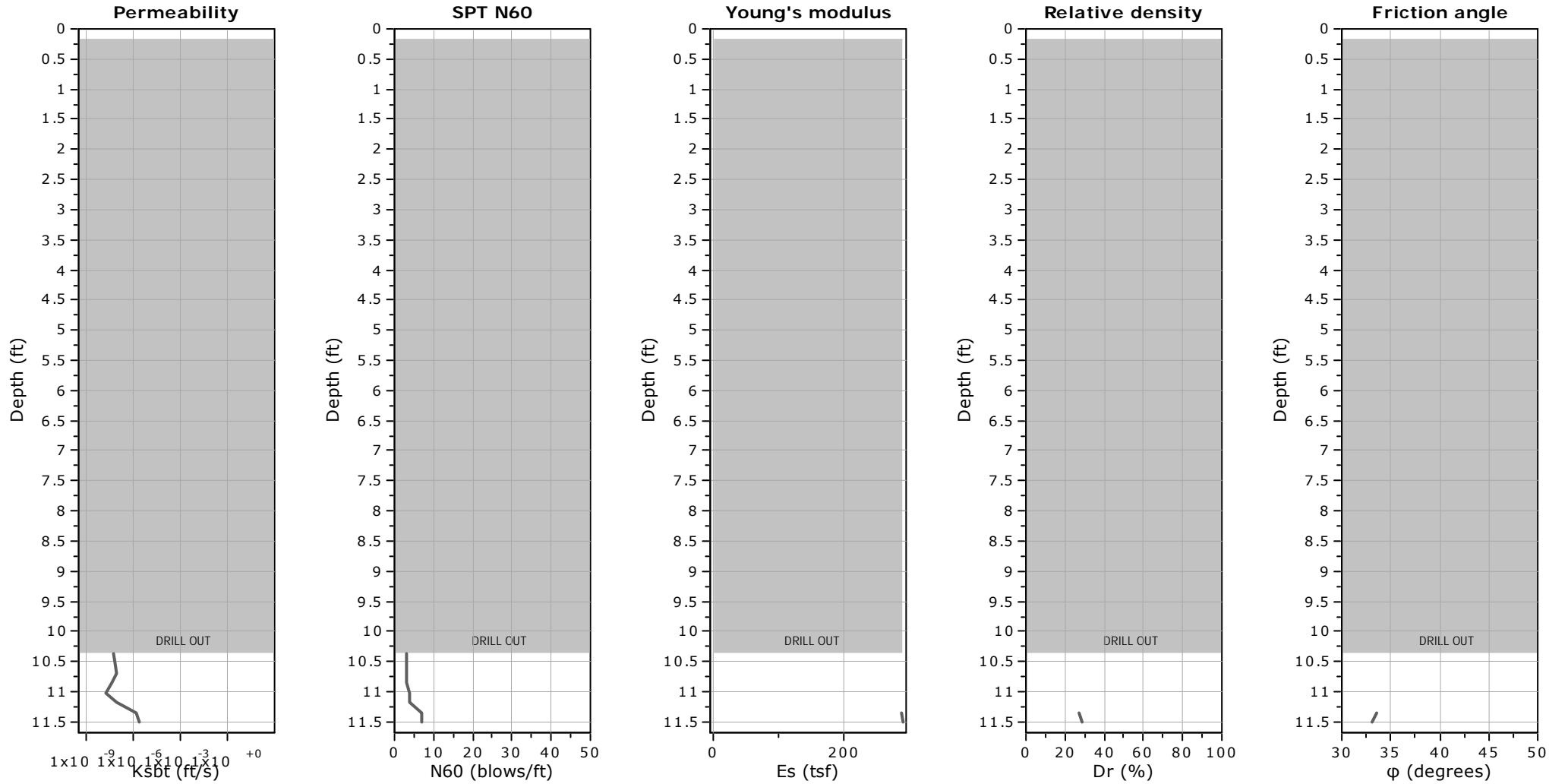
Mays Landing, NJ

**Project: Langan**

**Location: 145 Wolcott St, Brooklyn NY**

**CPT-7**

Total depth: 11.68 ft



**Calculation parameters**

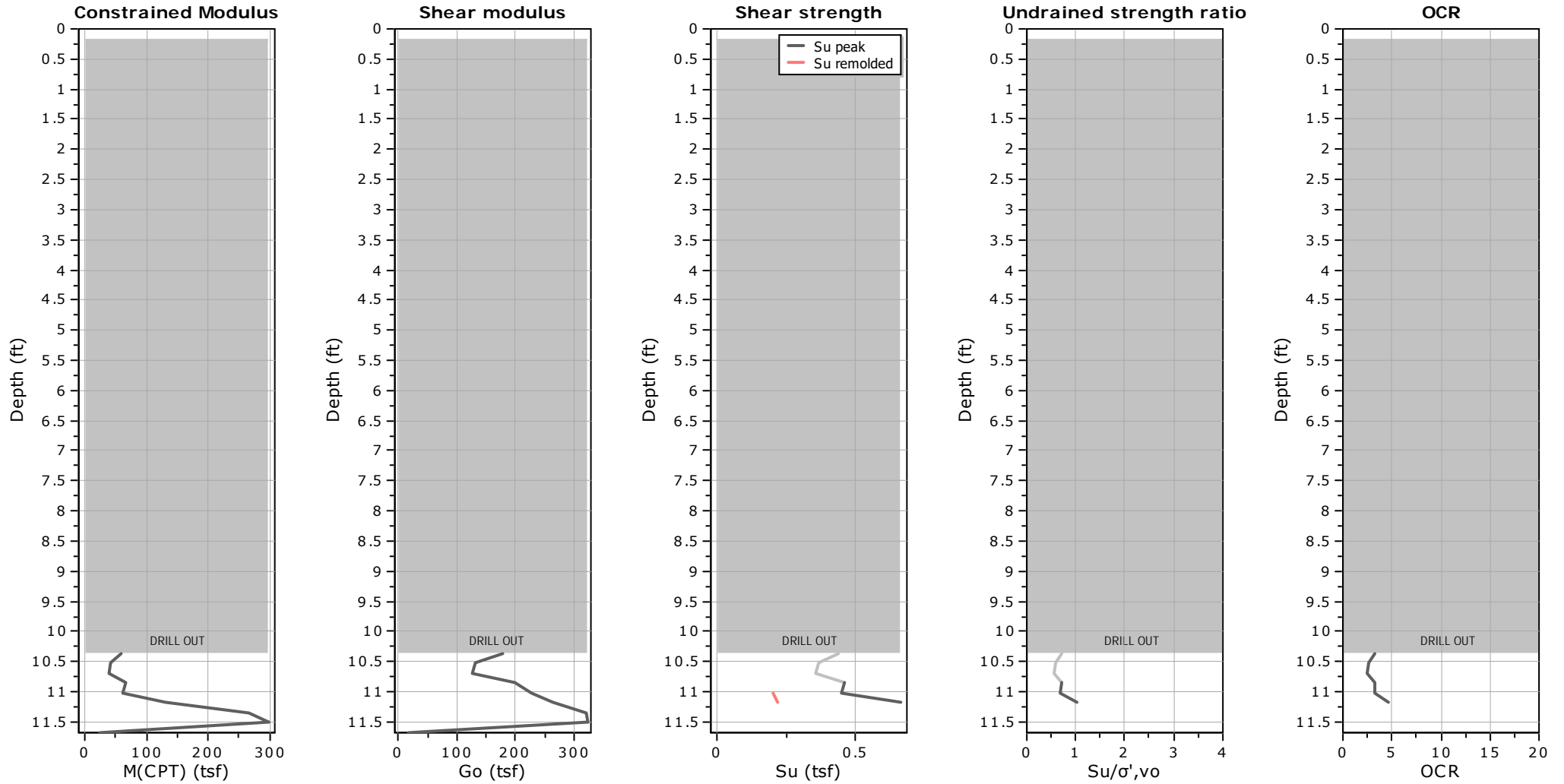
Permeability: Based on  $SBT_n$

SPT  $N_{60}$ : Based on  $I_c$  and  $q_t$

Young's modulus: Based on variable alpha using  $I_c$  (Robertson, 2009)

Relative density constant,  $C_{Dr}$ : 350.0

Phi: Based on Kulhawy & Mayne (1990)



**Calculation parameters**

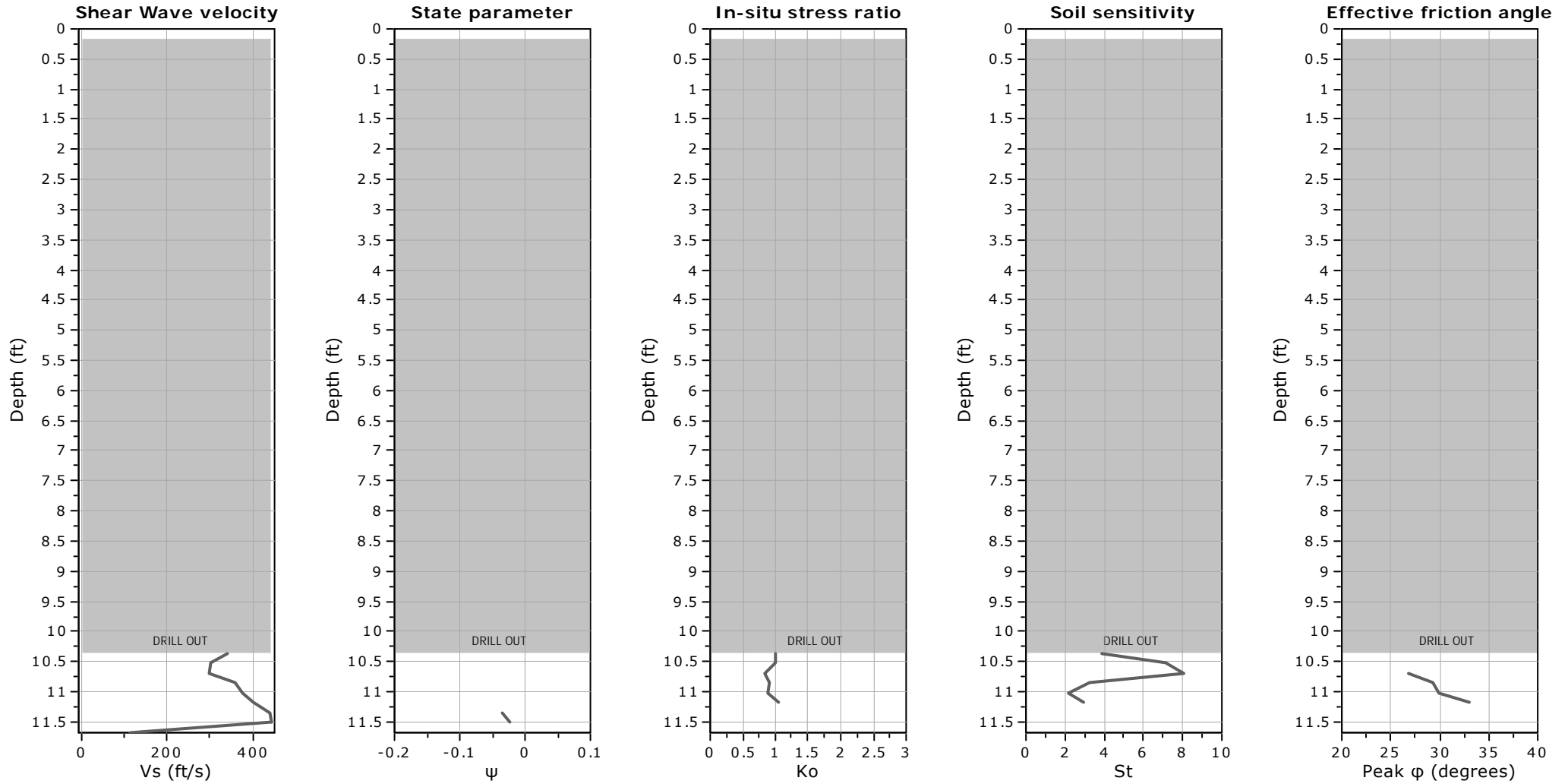
Constrained modulus: Based on variable  $\alpha$  using  $I_c$  and  $Q_{tn}$  (Robertson, 2009)

Go: Based on variable  $\alpha$  using  $I_c$  (Robertson, 2009)

Undrained shear strength cone factor for clays,  $N_{kt}$ : 14

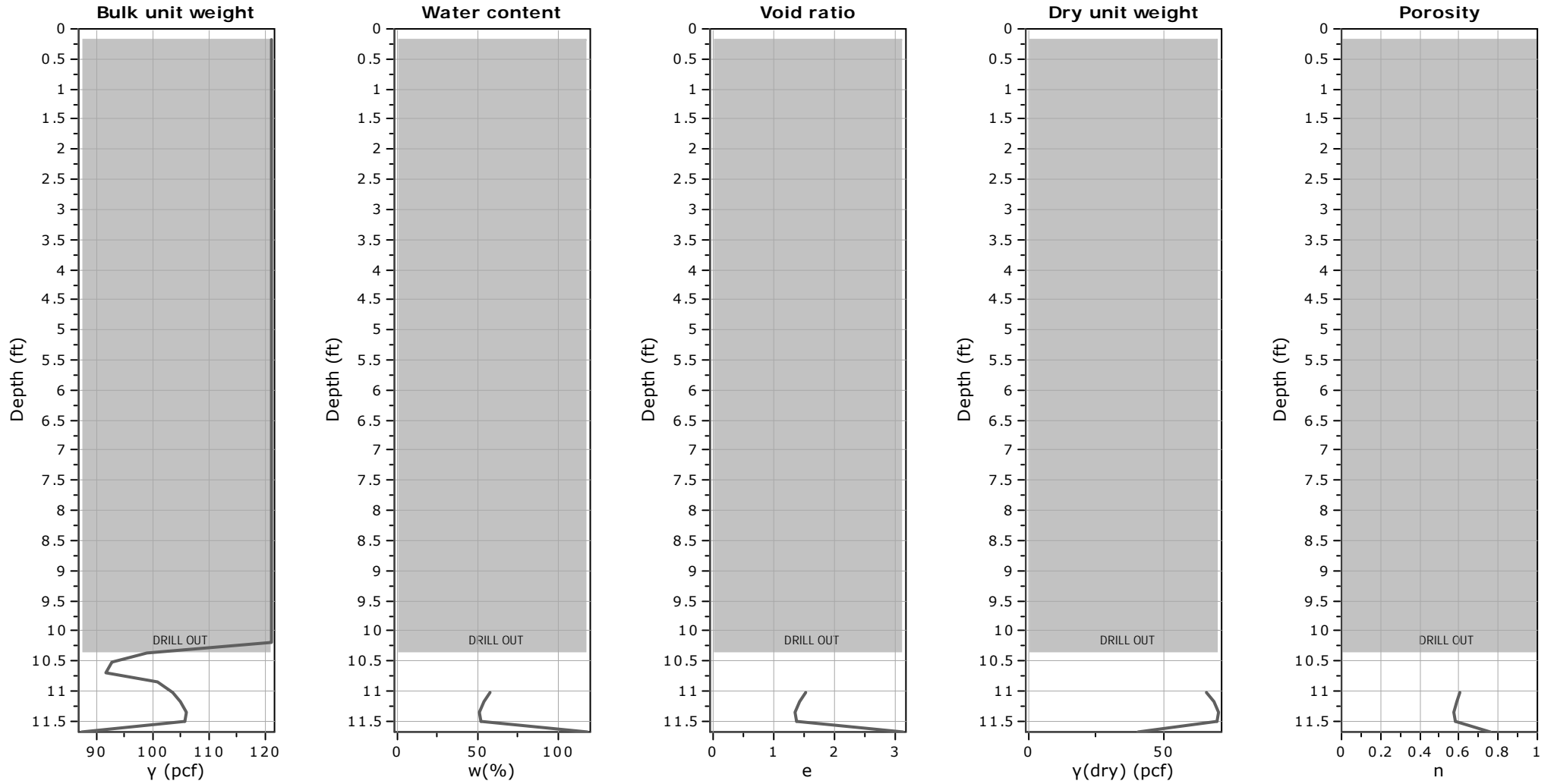
OCR factor for clays,  $N_{kt}$ : 0.33

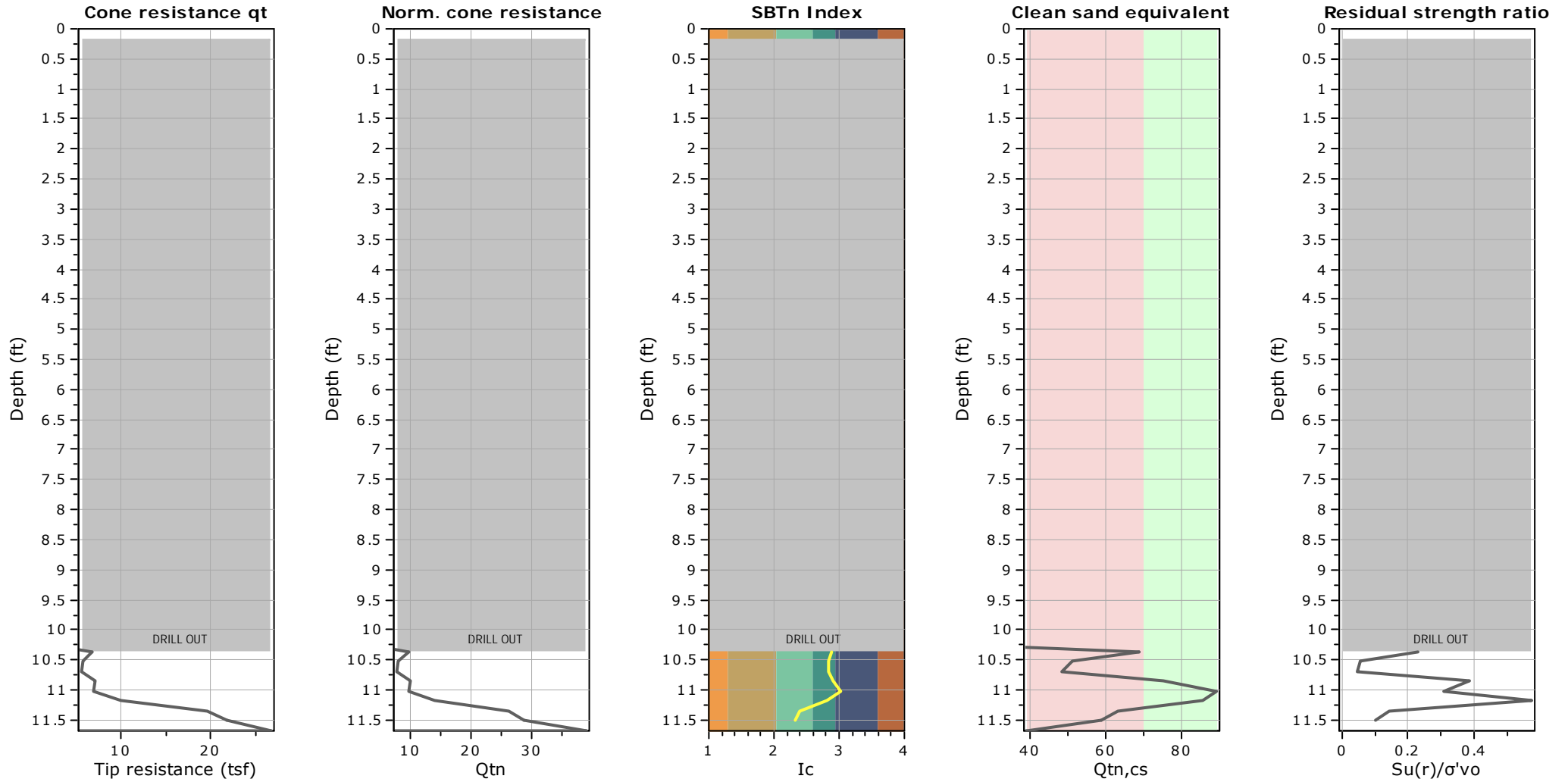
● Flat Dilatometer Test data

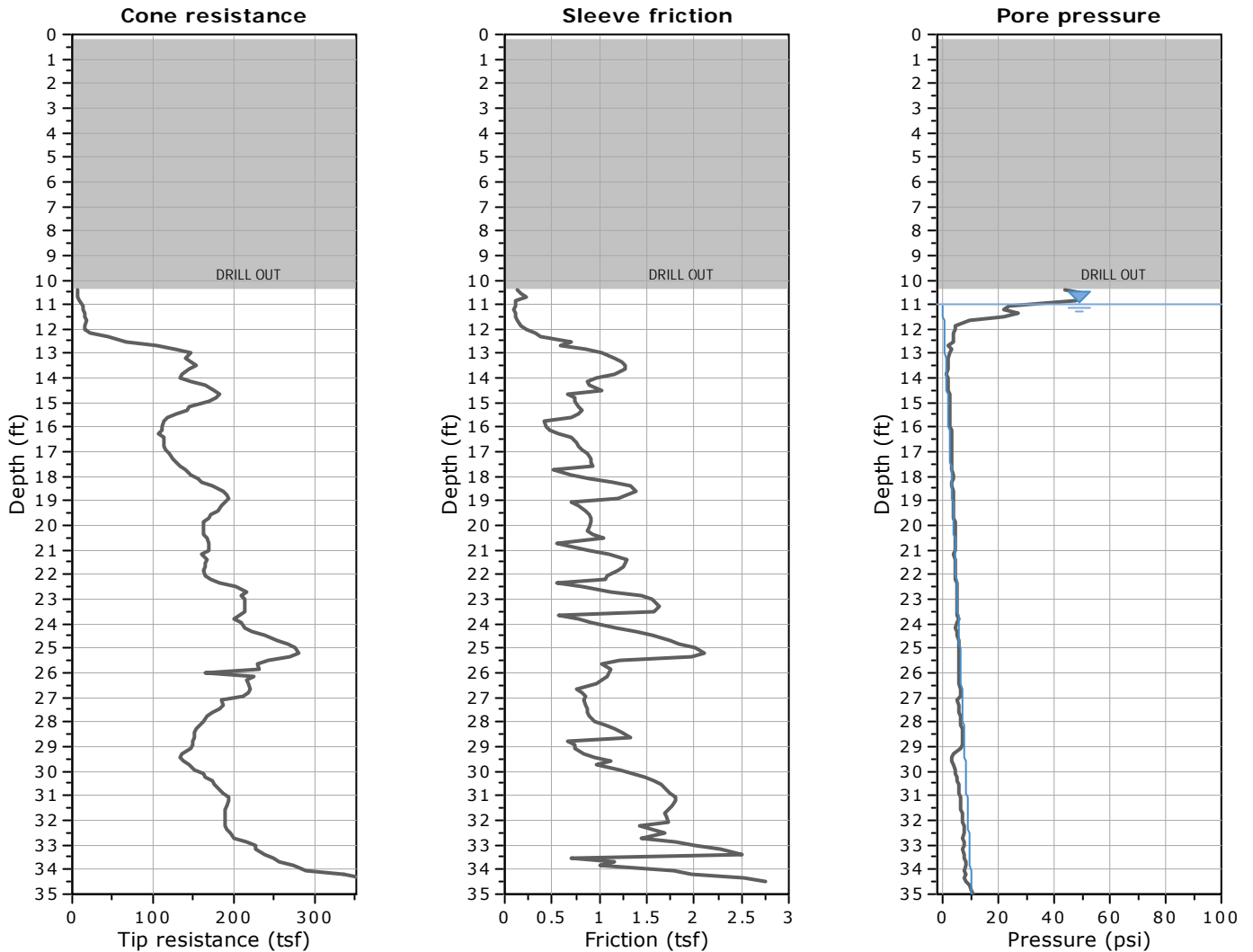


**Calculation parameters**  
Soil Sensitivity factor,  $N_s$ : 7.00









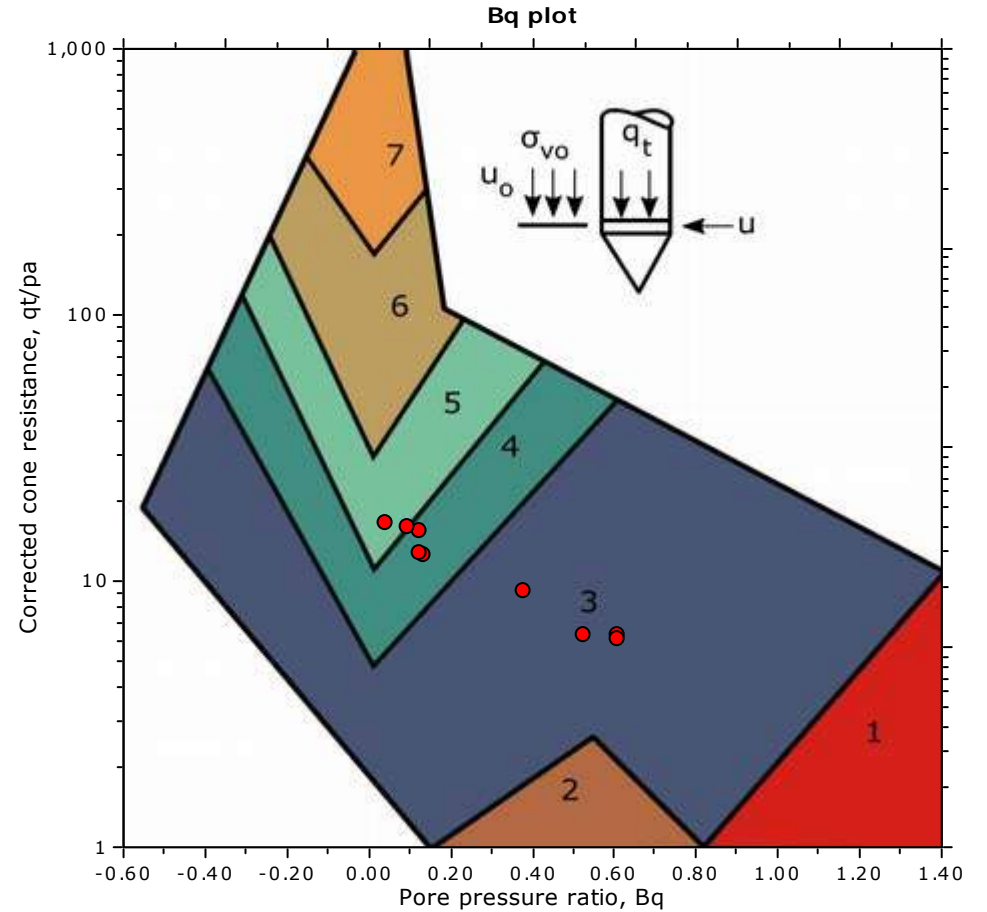
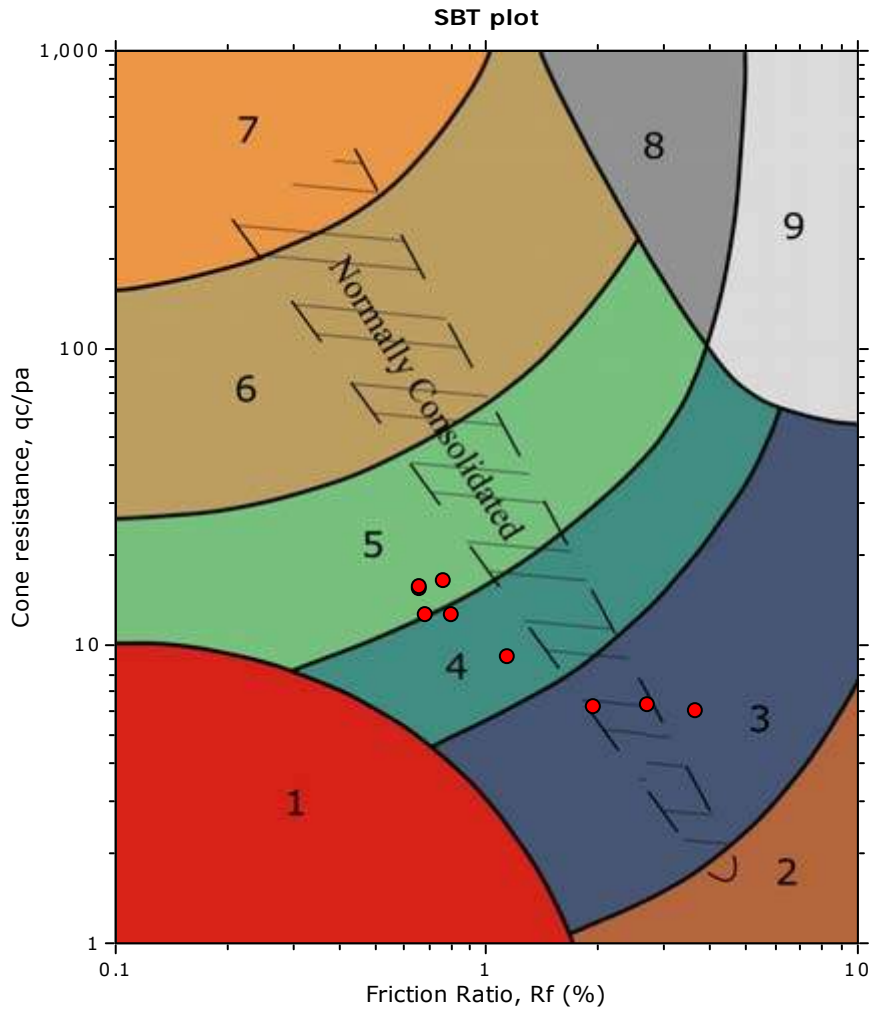
The plot below presents the cross correlation coefficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two successive CPT measurements).

Cross correlation between qc & fs





**SBT - Bq plots**

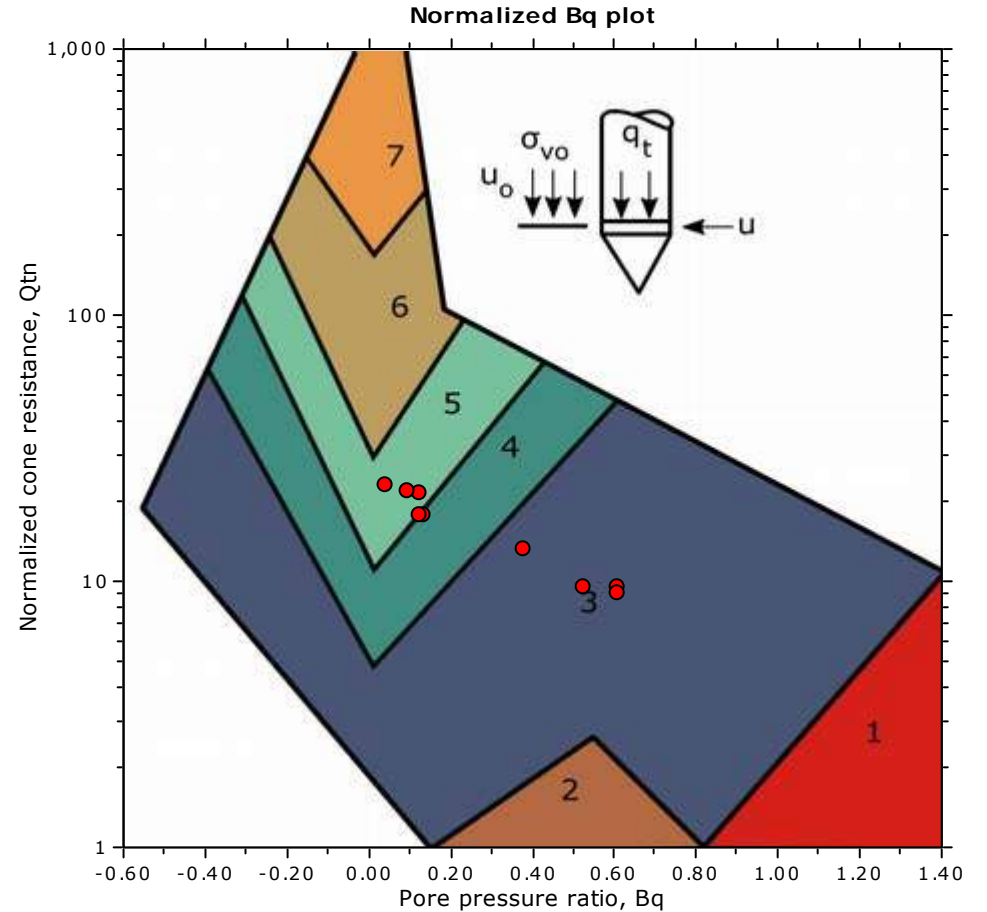
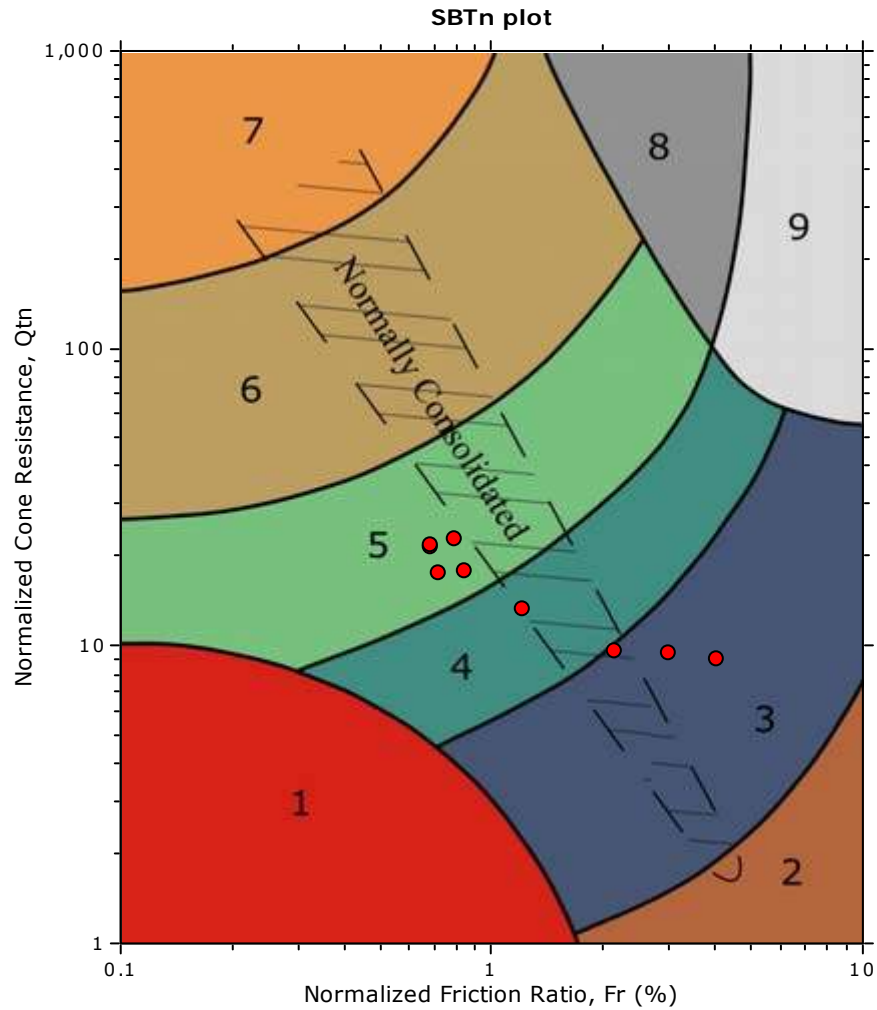


**SBT legend**

- |                           |                              |                                   |
|---------------------------|------------------------------|-----------------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty clay | 7. Gravelly sand to sand          |
| 2. Organic material       | 5. Silty sand to sandy silt  | 8. Very stiff sand to clayey sand |
| 3. Clay to silty clay     | 6. Clean sand to silty sand  | 9. Very stiff fine grained        |



**SBT - Bq plots (normalized)**

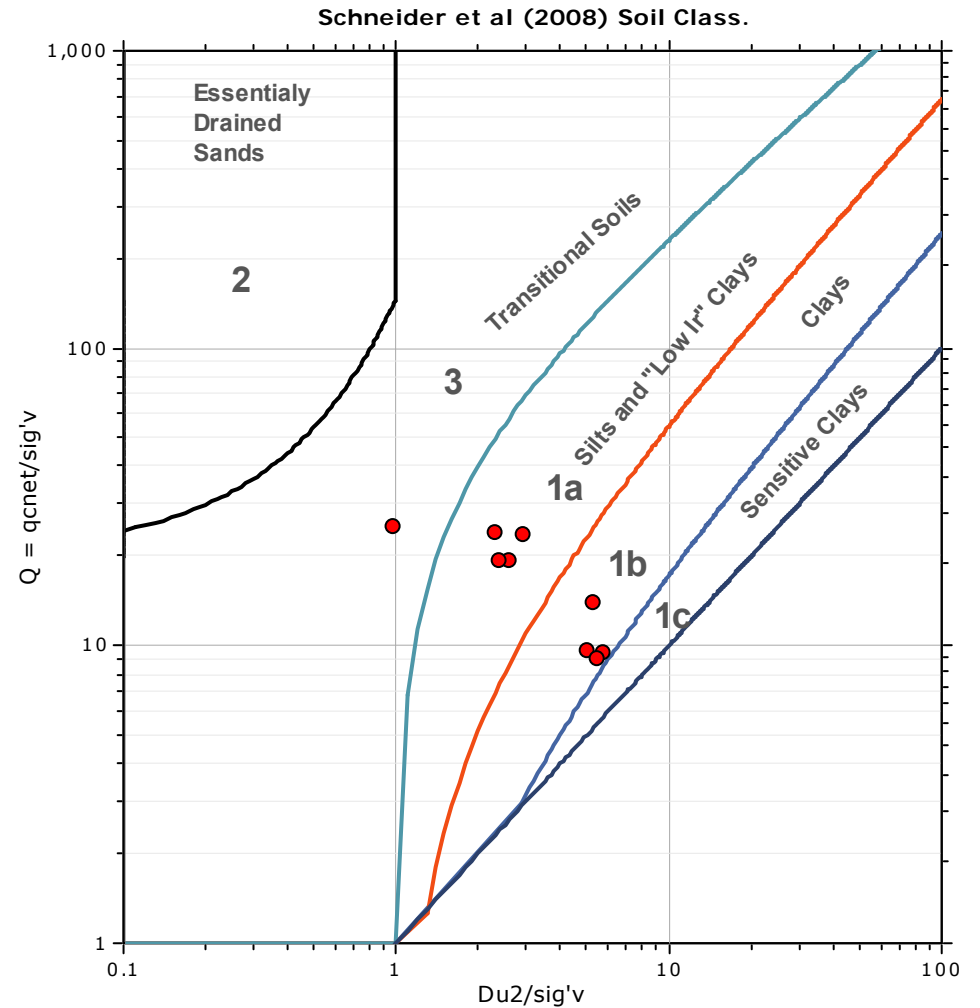
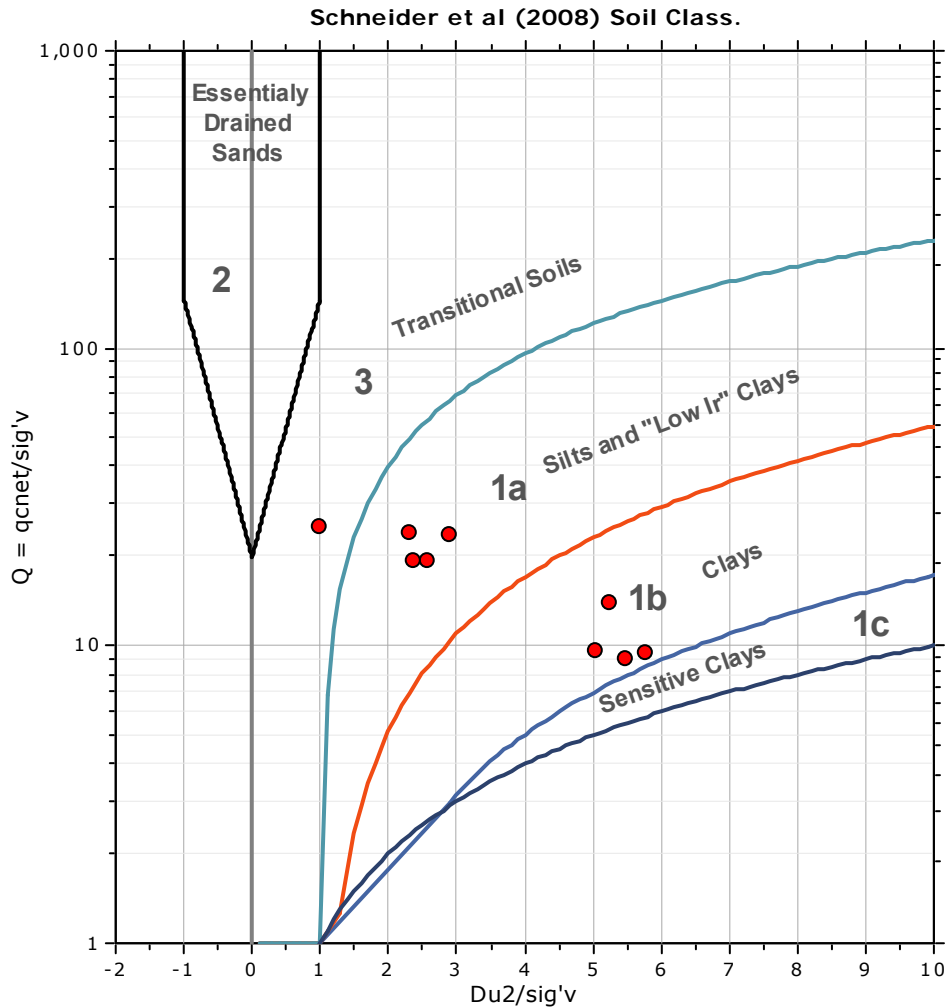


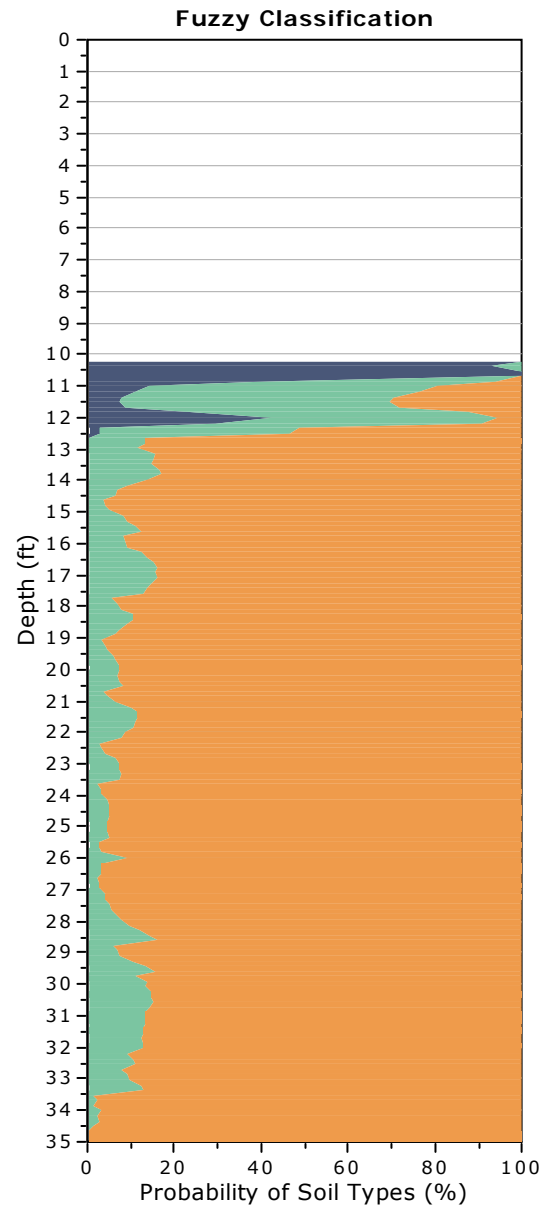
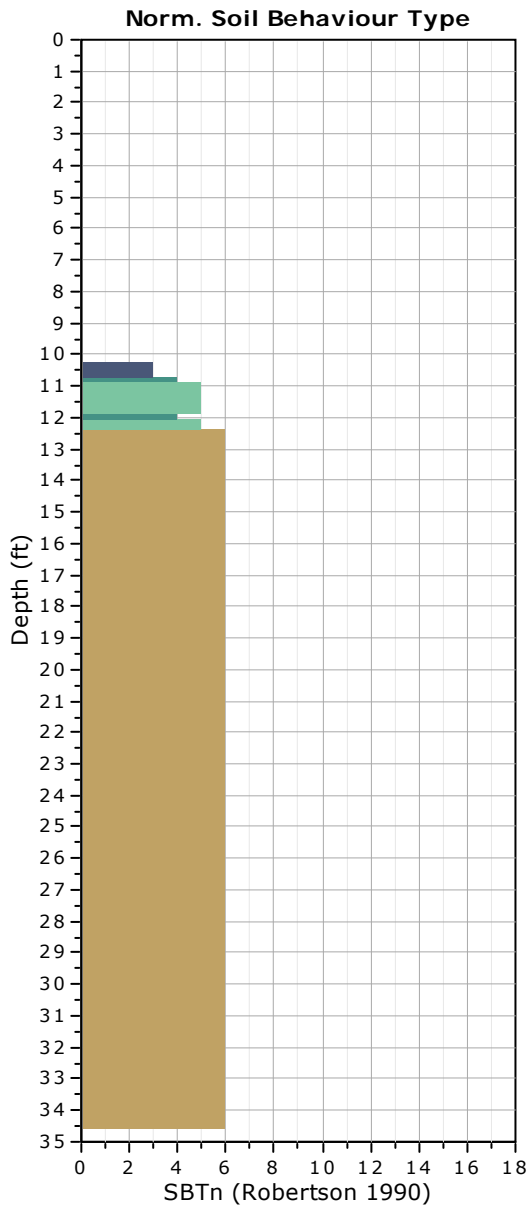
**SBTn legend**

- |                                                              |                                                                       |                                                                       |
|--------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| <span style="color: red;">■</span> 1. Sensitive fine grained | <span style="color: teal;">■</span> 4. Clayey silt to silty clay      | <span style="color: orange;">■</span> 7. Gravelly sand to sand        |
| <span style="color: brown;">■</span> 2. Organic material     | <span style="color: lightgreen;">■</span> 5. Silty sand to sandy silt | <span style="color: grey;">■</span> 8. Very stiff sand to clayey sand |
| <span style="color: blue;">■</span> 3. Clay to silty clay    | <span style="color: tan;">■</span> 6. Clean sand to silty sand        | <span style="color: lightgrey;">■</span> 9. Very stiff fine grained   |



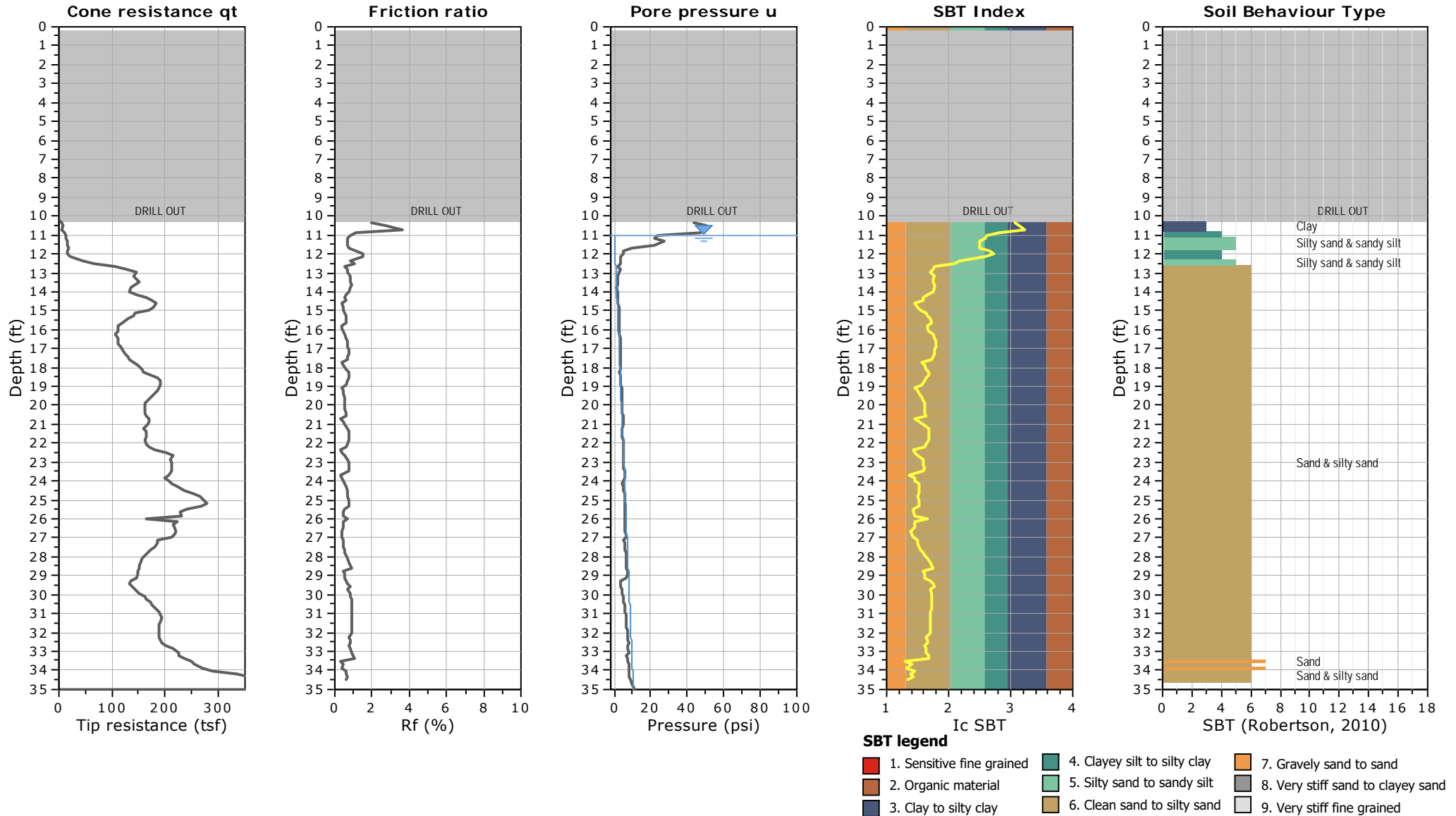
### Bq plots (Schneider)



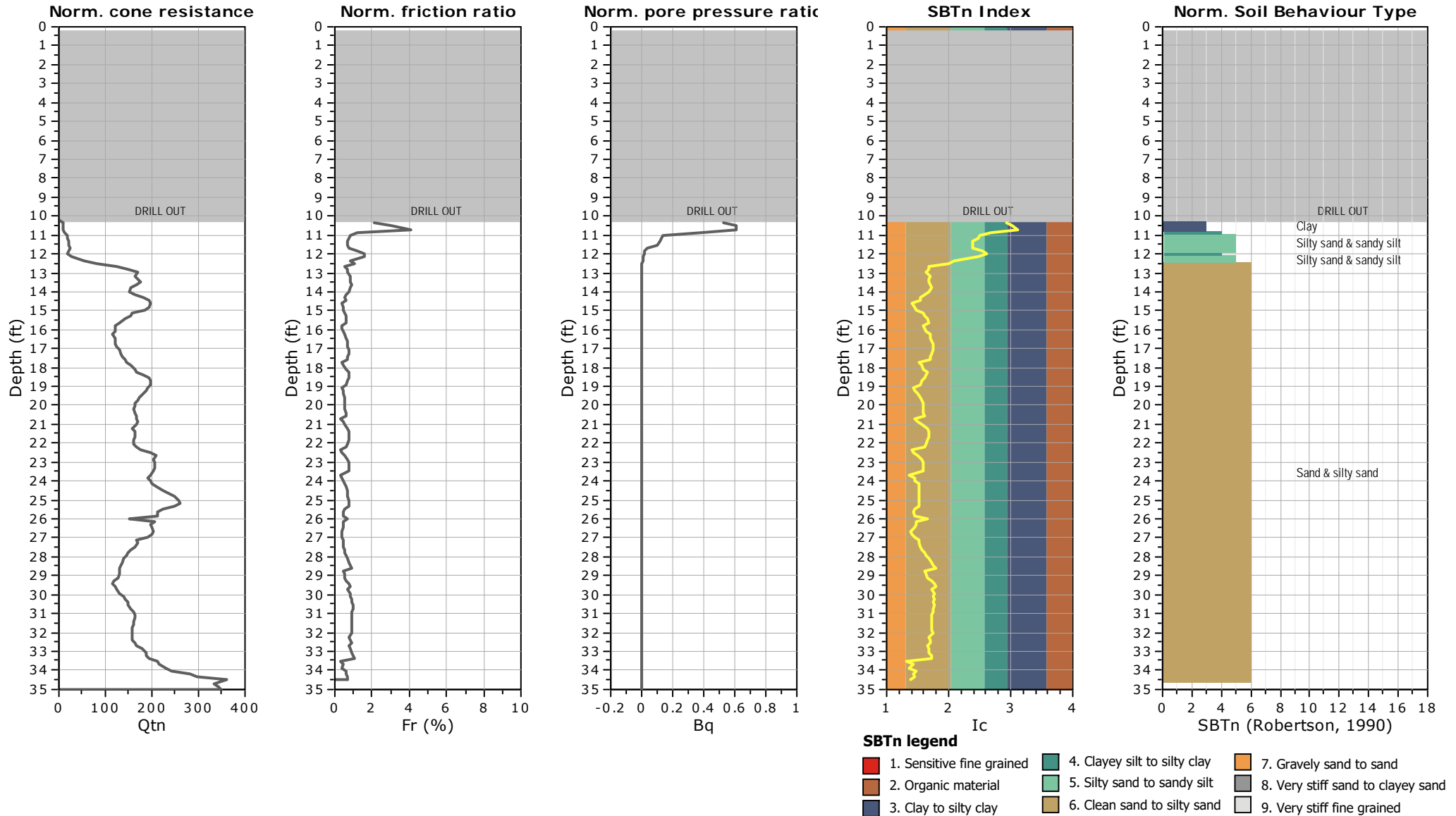


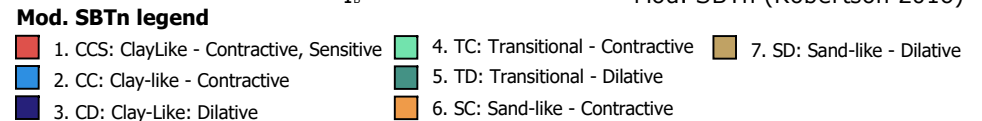
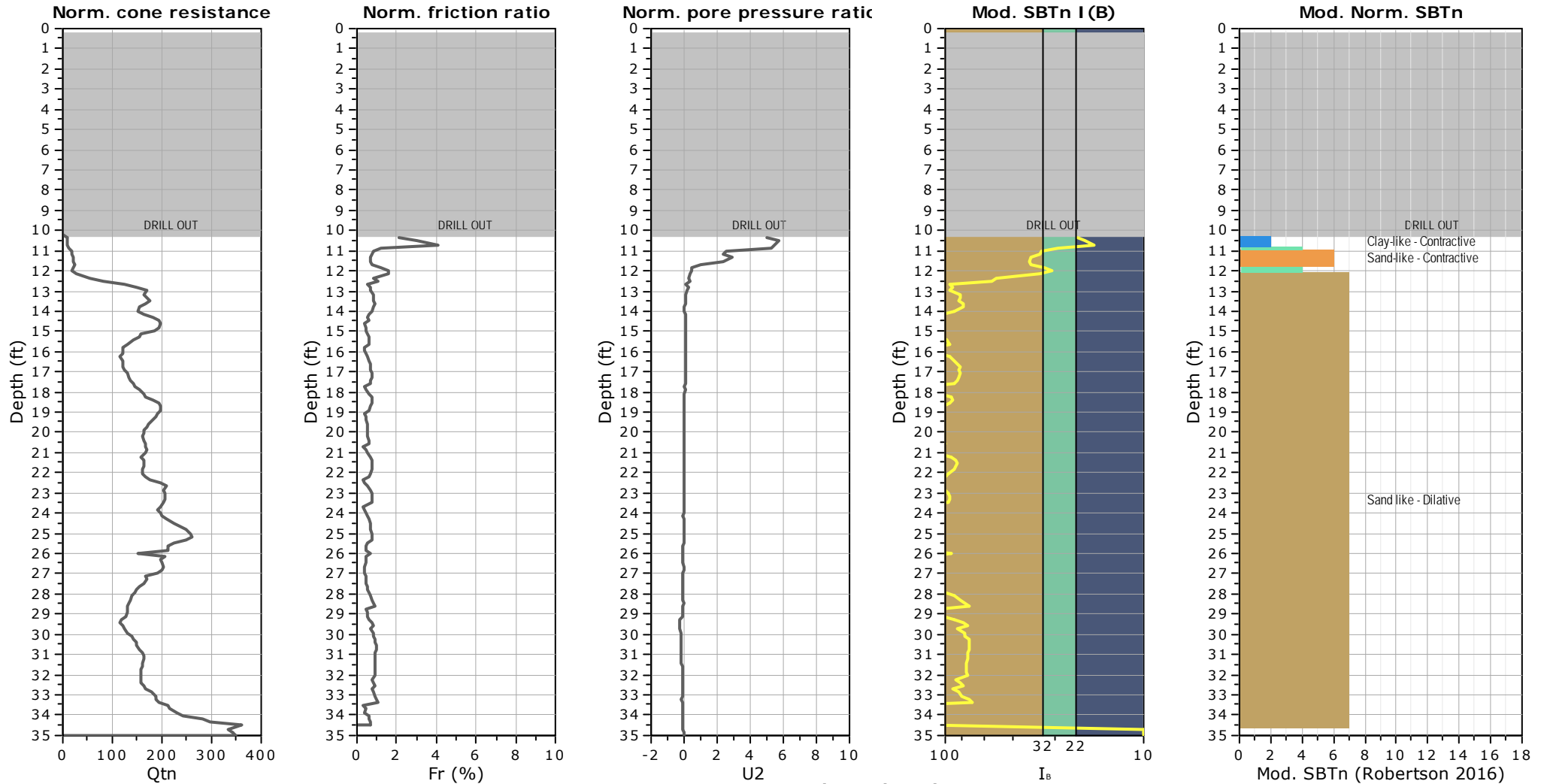
**Fuzzy classification legend**

- Highly probable clayey soil
- Highly probable mixture soil
- Highly probable sandy soil



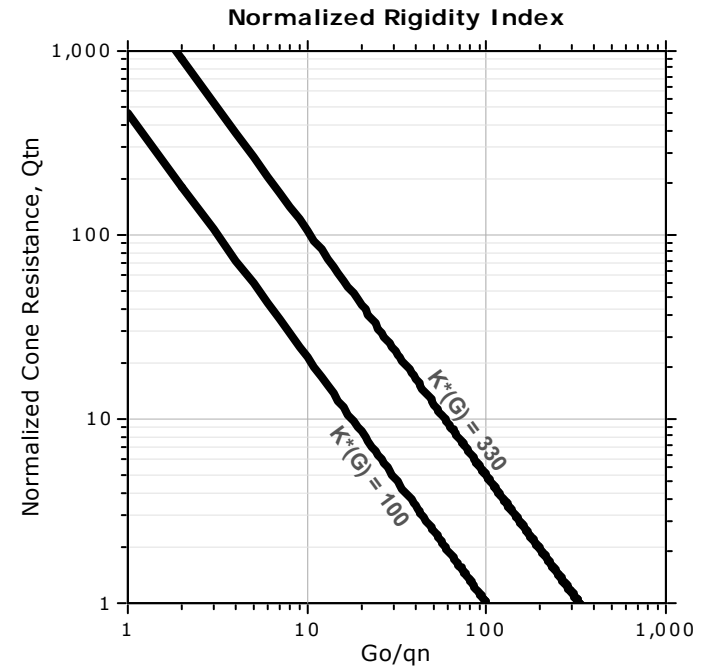
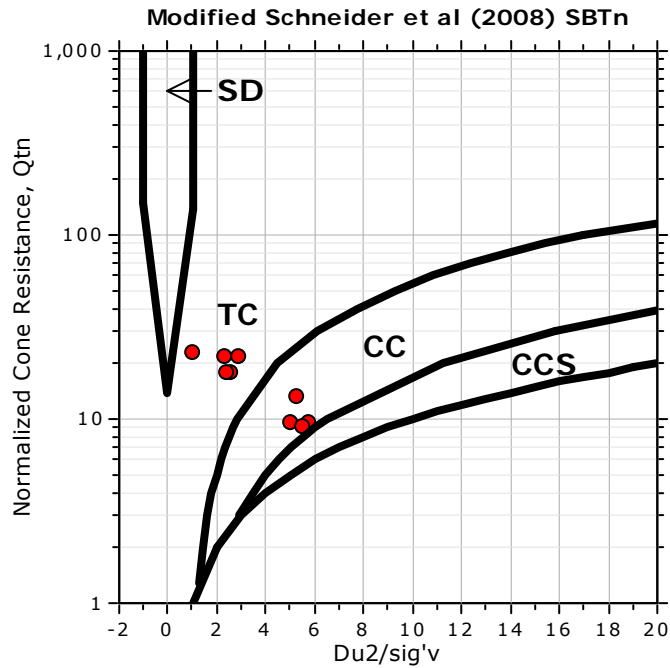
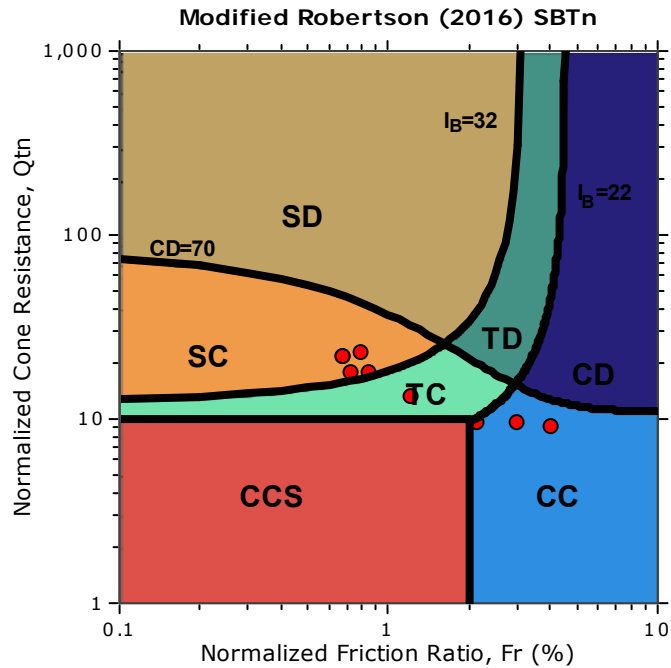






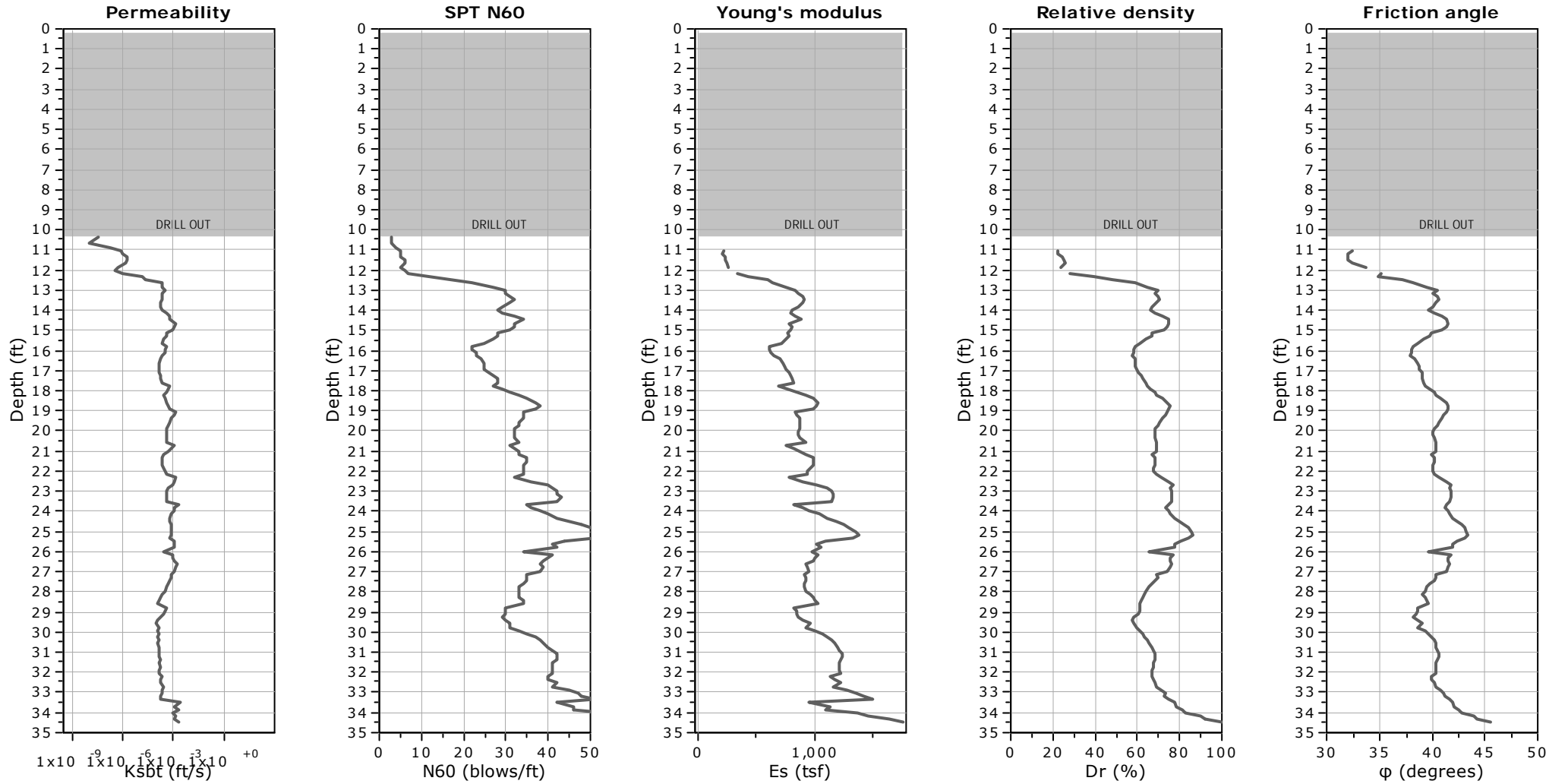


**Updated SBTn plots**



- CCS: Clay-like - Contractive - Sensitive
- CC: Clay-like - Contractive
- CD: Clay-like - Dilative
- TC: Transitional - Contractive
- TD: Transitional - Dilative
- SC: Sand-like - Contractive
- SD: Sand-like - Dilative

$K^*(G) > 330$ : Soils with significant microstructure (e.g. age/cementation)



**Calculation parameters**

Permeability: Based on SBT<sub>n</sub>

SPT N<sub>60</sub>: Based on I<sub>c</sub> and q<sub>t</sub>

Young's modulus: Based on variable alpha using I<sub>c</sub> (Robertson, 2009)

Relative density constant, C<sub>Dr</sub>: 350.0

Phi: Based on Kulhawy & Mayne (1990)

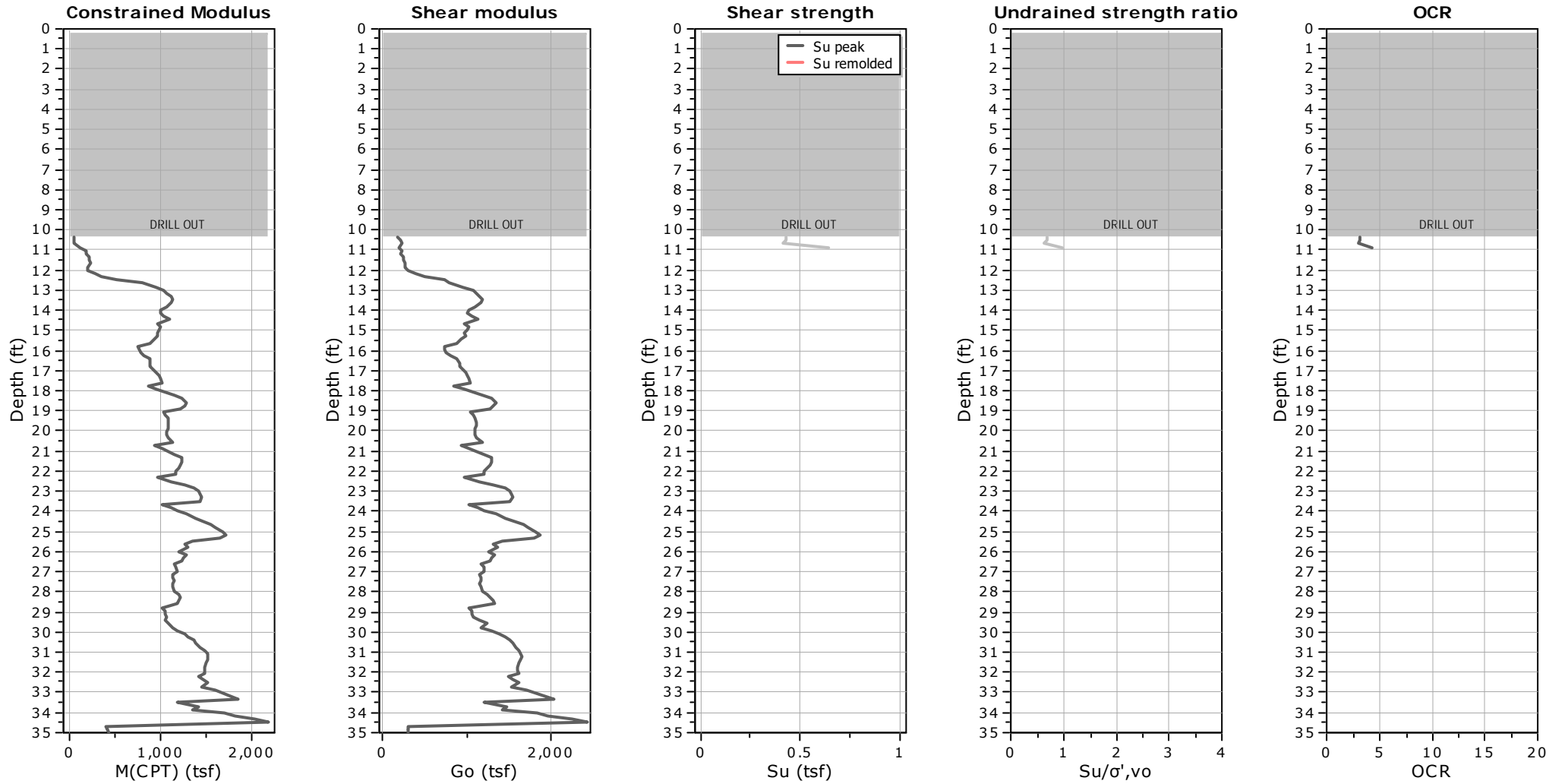


**Project:** Langan

**Location:** 145 Wolcott St, Brooklyn NY

**CPT-7a**

Total depth: 35.01 ft



**Calculation parameters**

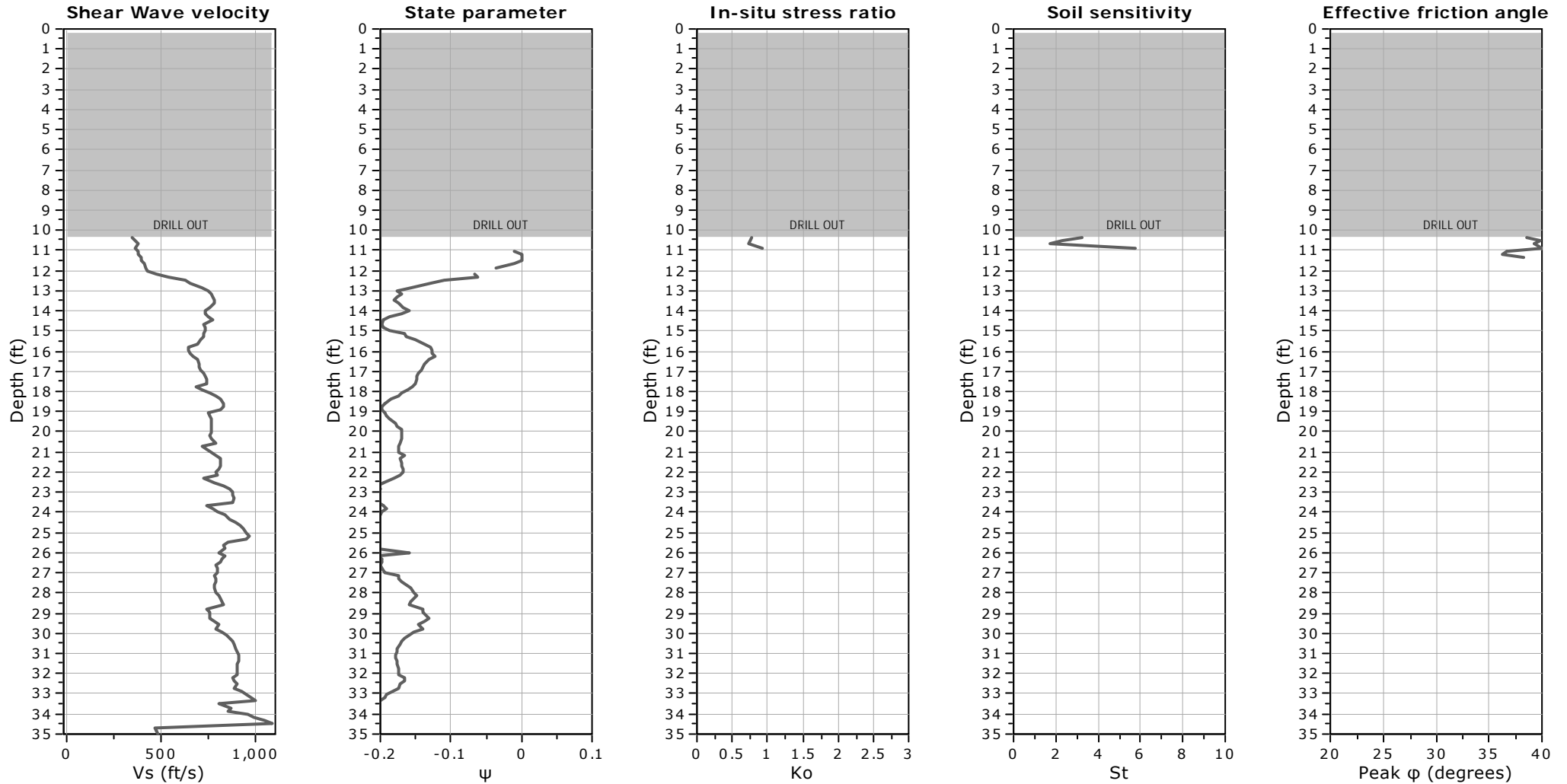
Constrained modulus: Based on variable  $\alpha$  using  $I_c$  and  $Q_{tn}$  (Robertson, 2009)

Go: Based on variable  $\alpha$  using  $I_c$  (Robertson, 2009)

Undrained shear strength cone factor for clays,  $N_{kt}$ : 14

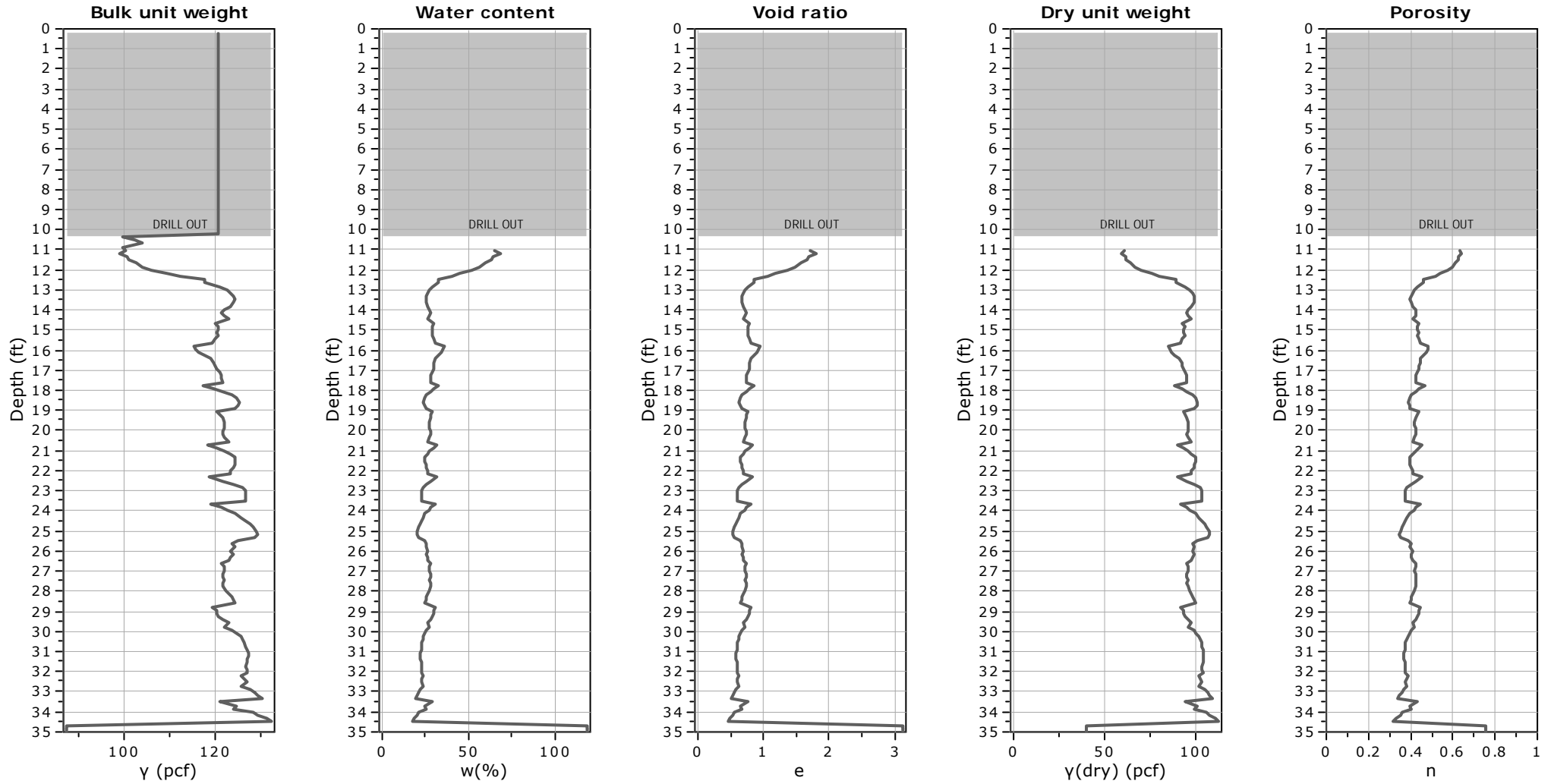
OCR factor for clays,  $N_{kt}$ : 0.33

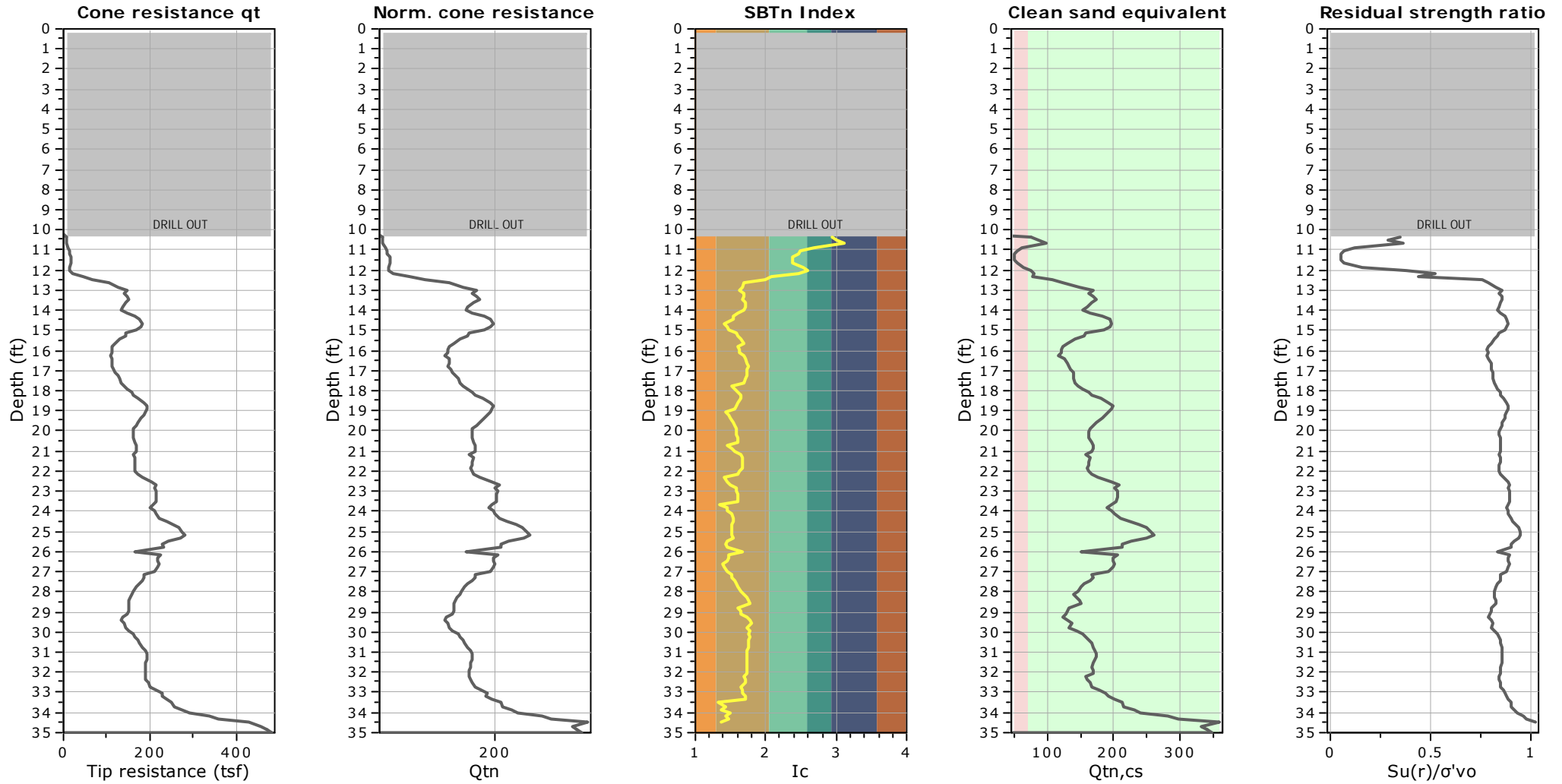
● Flat Dilatometer Test data



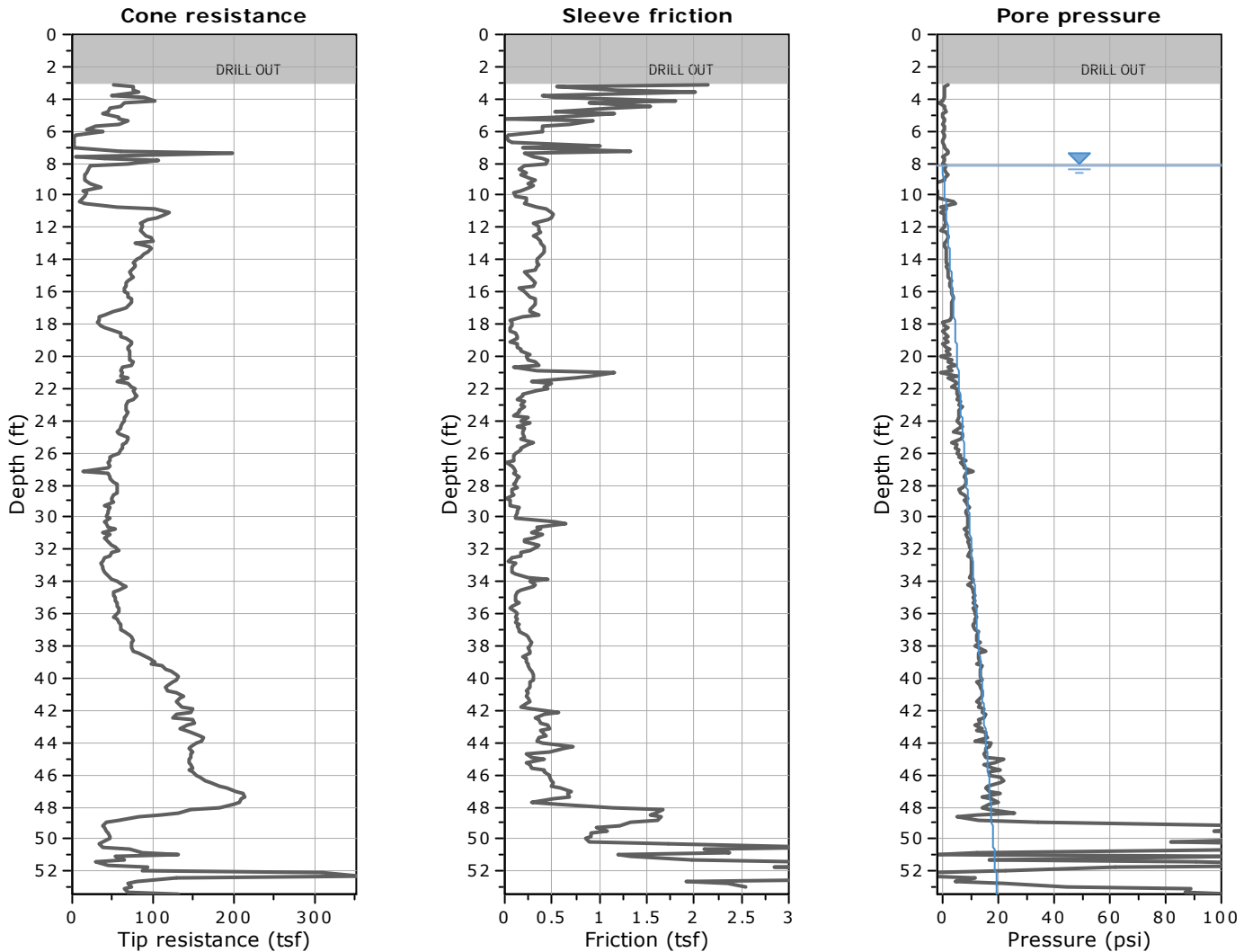
**Calculation parameters**

Soil Sensitivity factor,  $N_s$ : 7.00



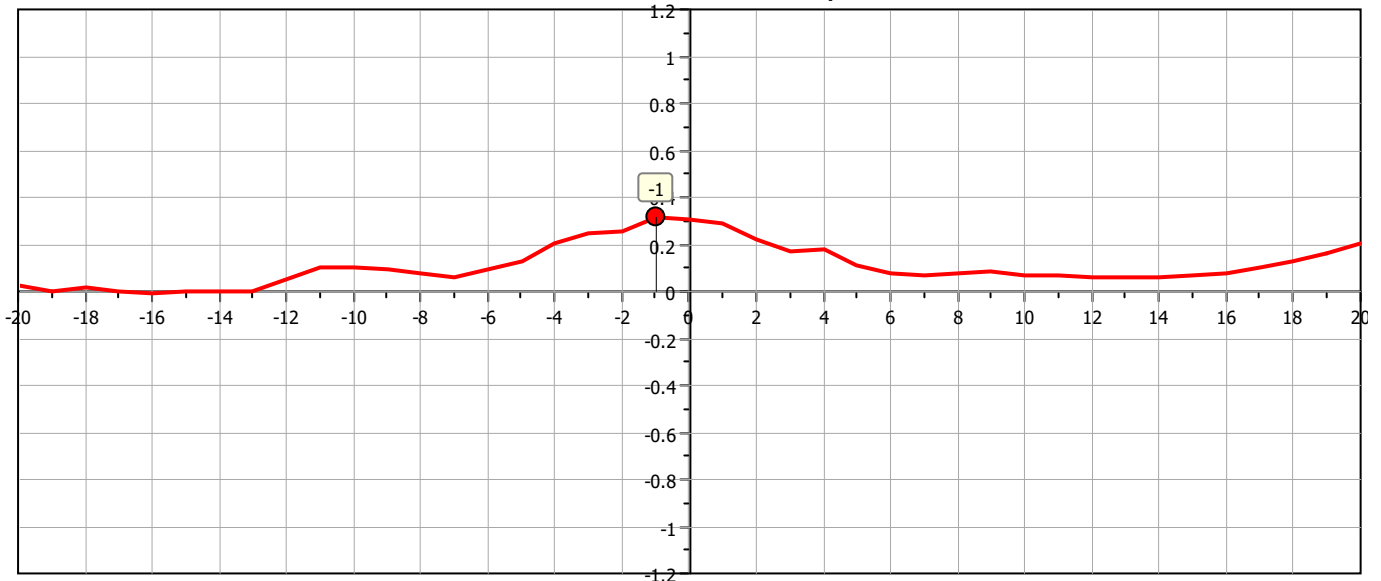






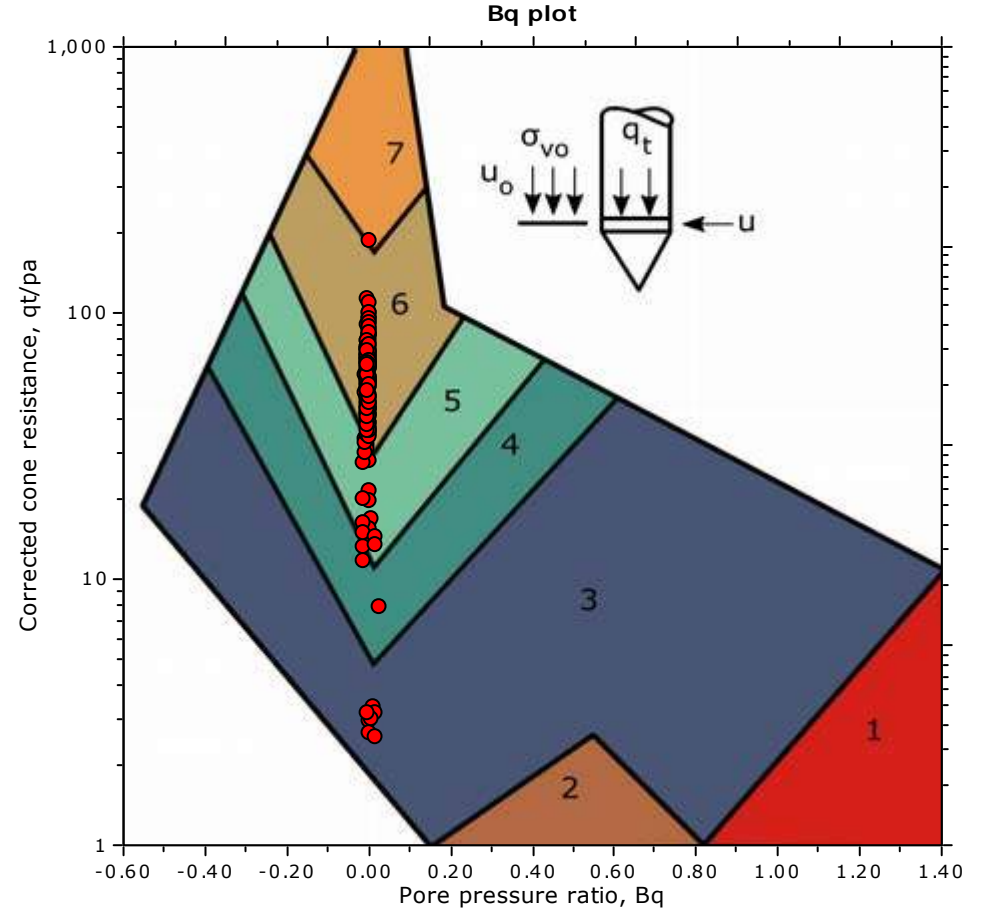
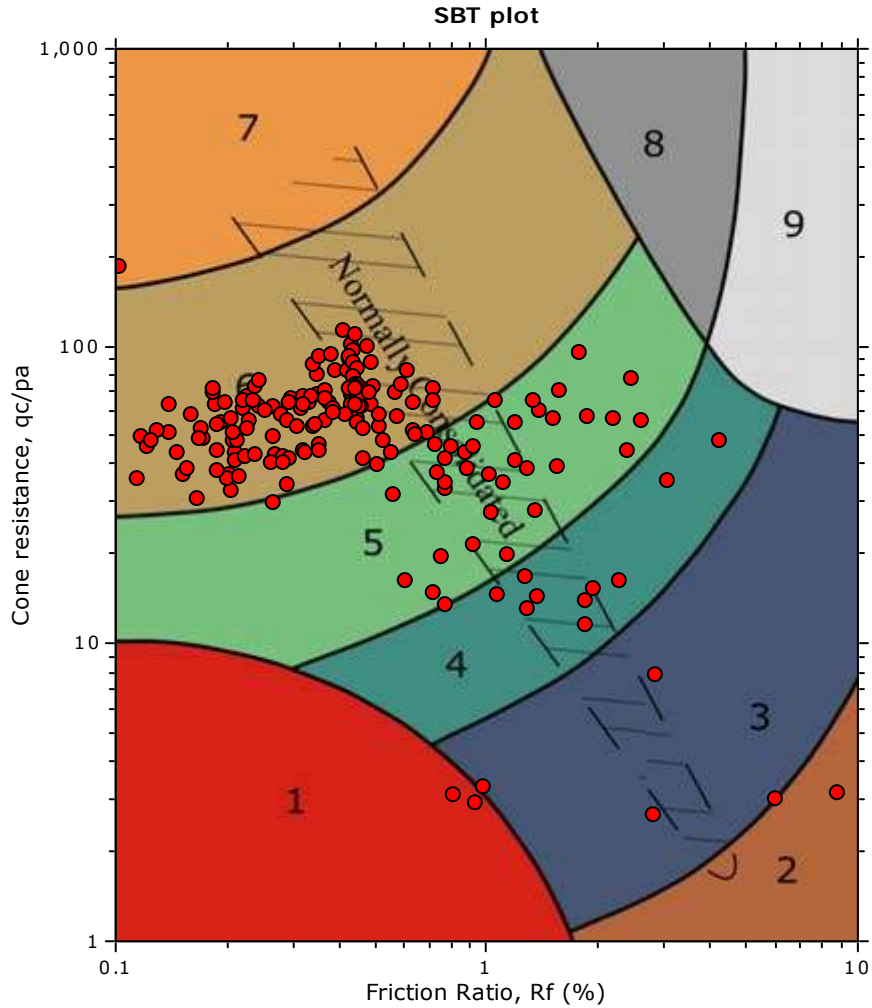
The plot below presents the cross correlation coefficient between the raw  $q_c$  and  $f_s$  values (as measured on the field). X axes presents the lag distance (one lag is the distance between two successive CPT measurements).

Cross correlation between  $q_c$  &  $f_s$





**SBT - Bq plots**

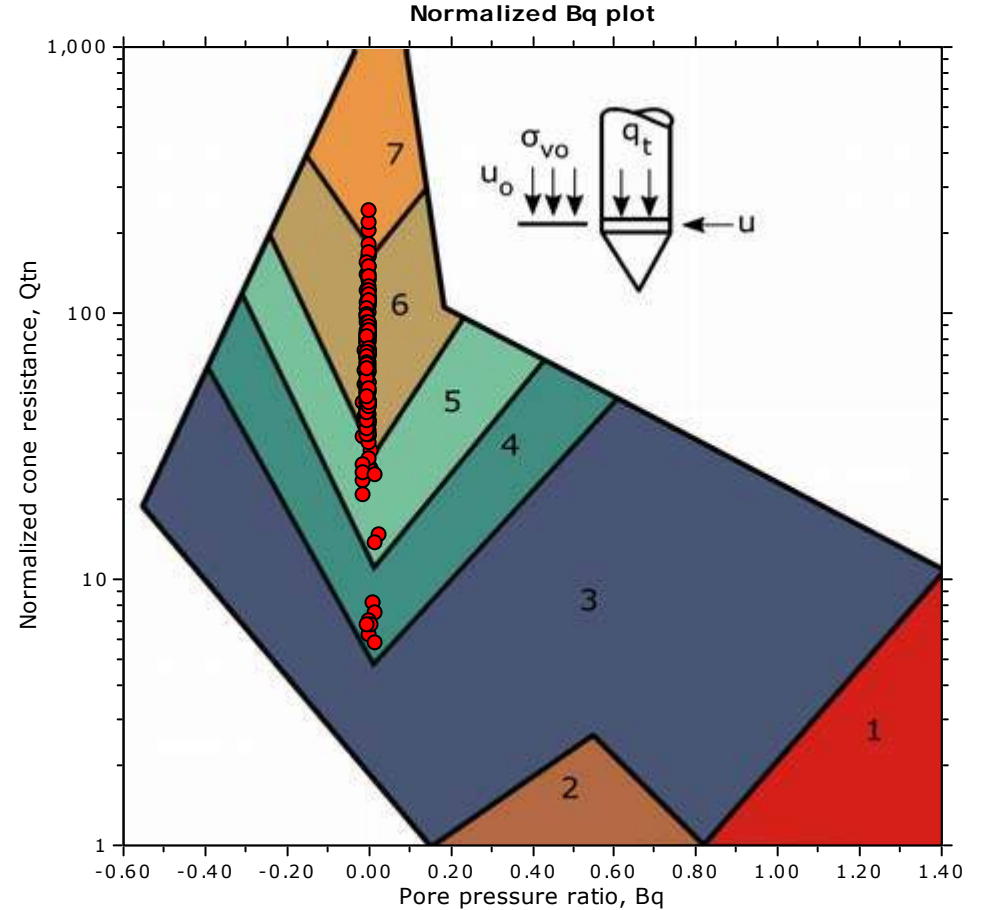
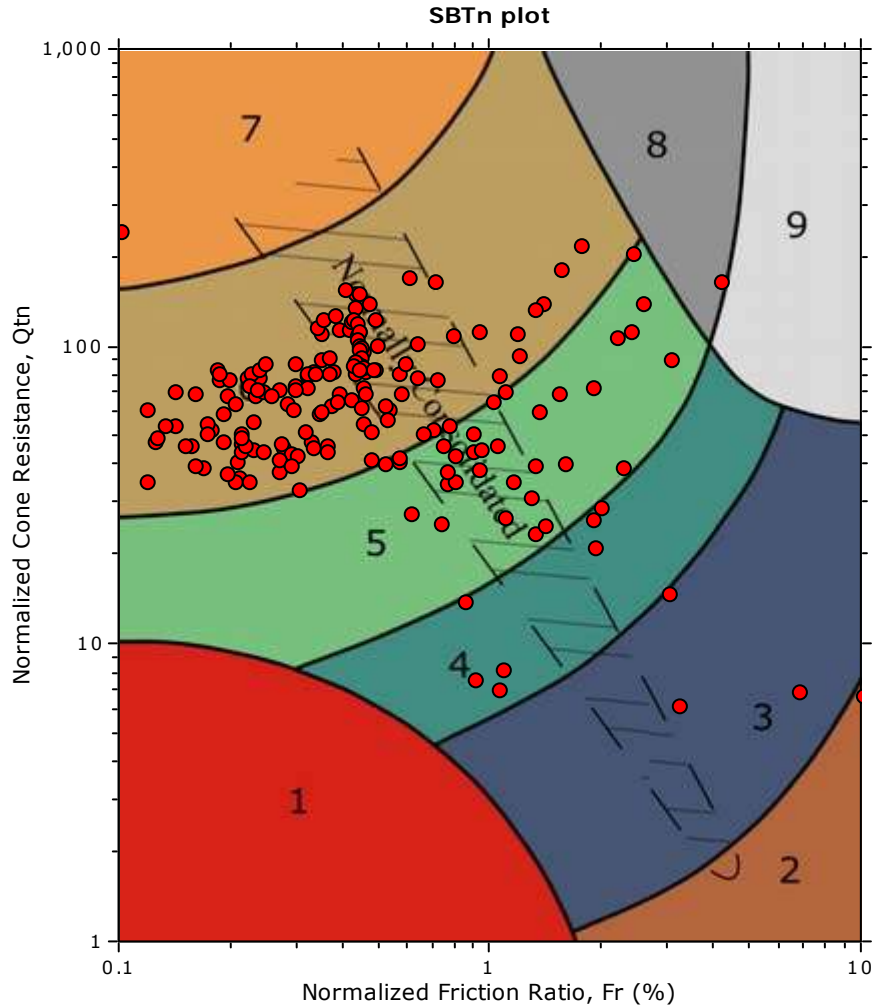


**SBT legend**

- |                           |                              |                                   |
|---------------------------|------------------------------|-----------------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty clay | 7. Gravelly sand to sand          |
| 2. Organic material       | 5. Silty sand to sandy silt  | 8. Very stiff sand to clayey sand |
| 3. Clay to silty clay     | 6. Clean sand to silty sand  | 9. Very stiff fine grained        |



**SBT - Bq plots (normalized)**

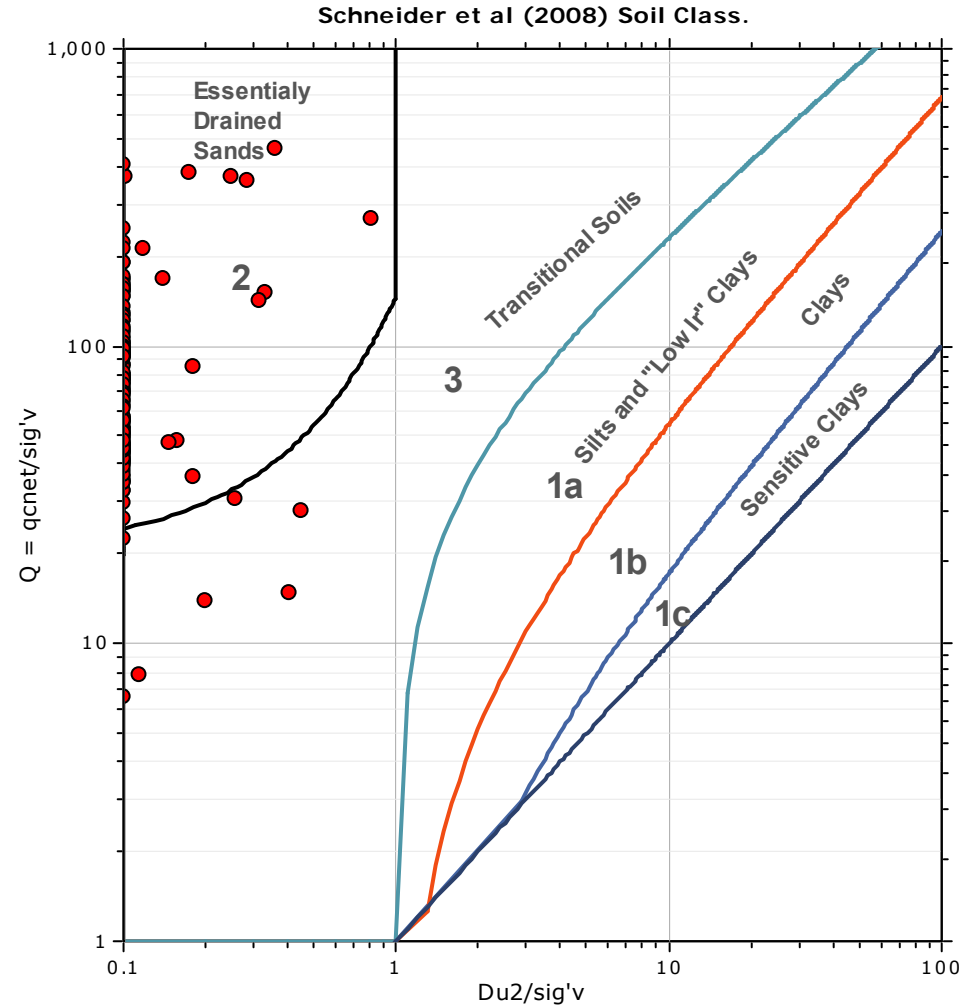
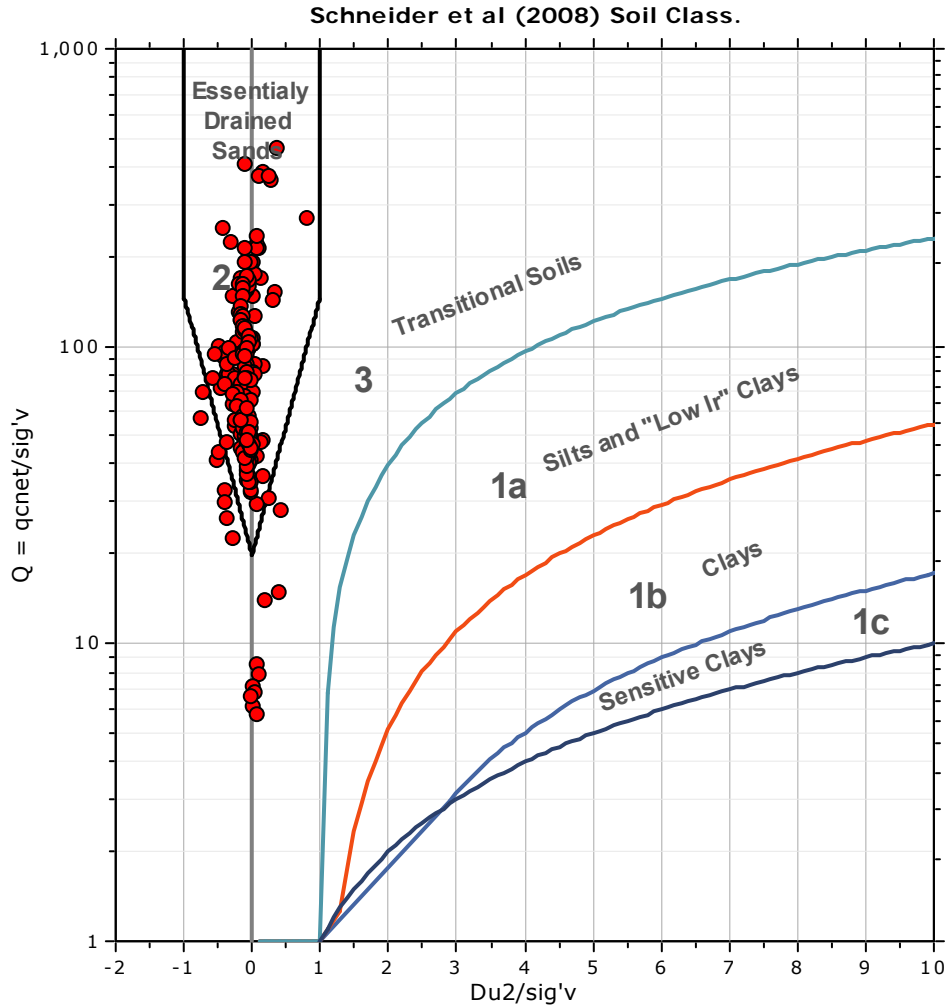


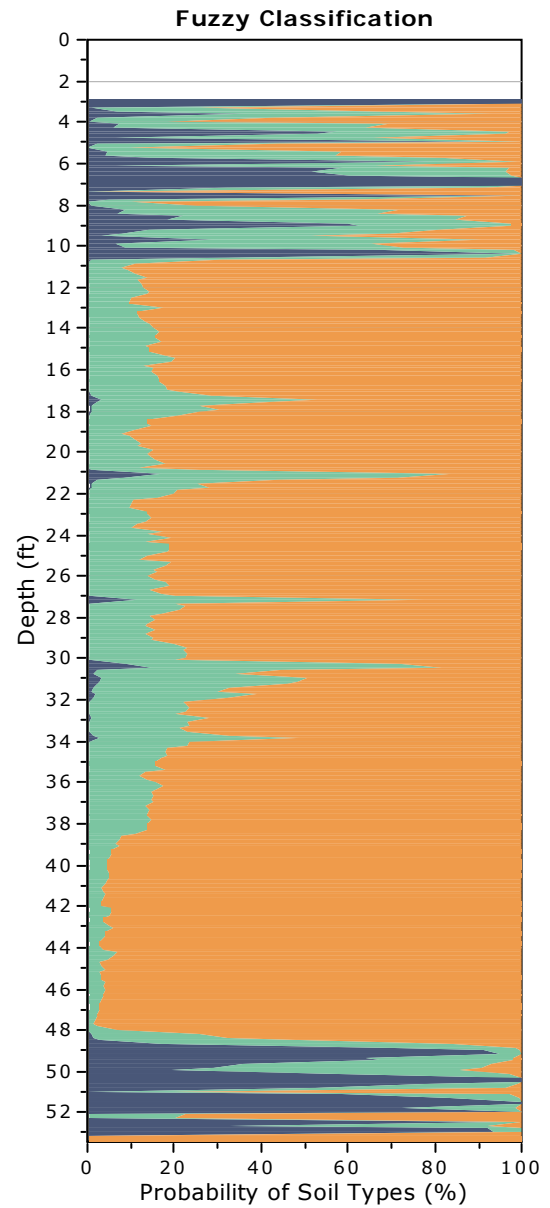
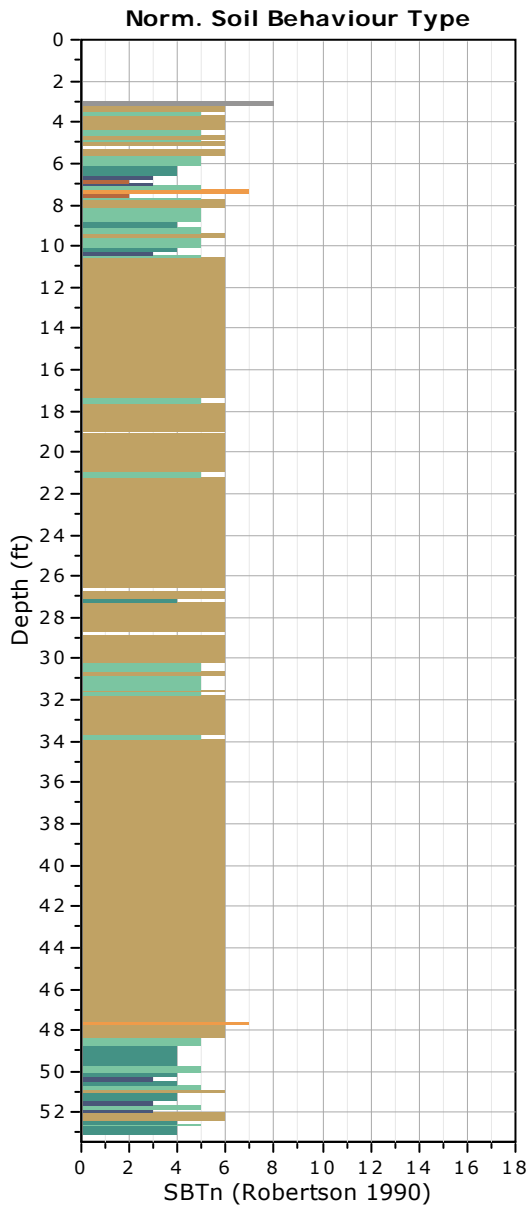
**SBTn legend**

- |                                                              |                                                                       |                                                                       |
|--------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| <span style="color: red;">■</span> 1. Sensitive fine grained | <span style="color: teal;">■</span> 4. Clayey silt to silty clay      | <span style="color: orange;">■</span> 7. Gravelly sand to sand        |
| <span style="color: brown;">■</span> 2. Organic material     | <span style="color: lightgreen;">■</span> 5. Silty sand to sandy silt | <span style="color: grey;">■</span> 8. Very stiff sand to clayey sand |
| <span style="color: blue;">■</span> 3. Clay to silty clay    | <span style="color: tan;">■</span> 6. Clean sand to silty sand        | <span style="color: lightgrey;">■</span> 9. Very stiff fine grained   |



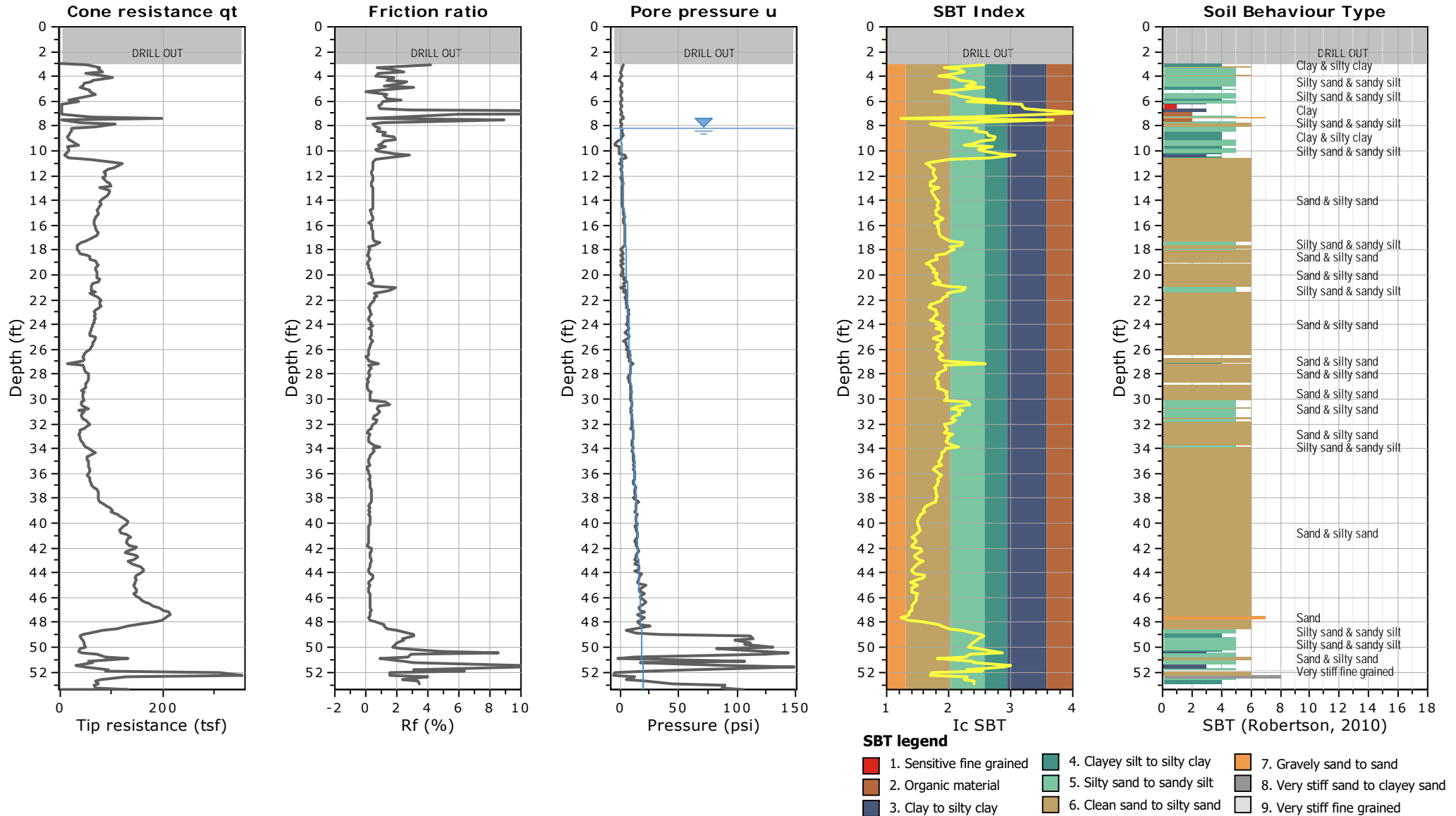
### Bq plots (Schneider)

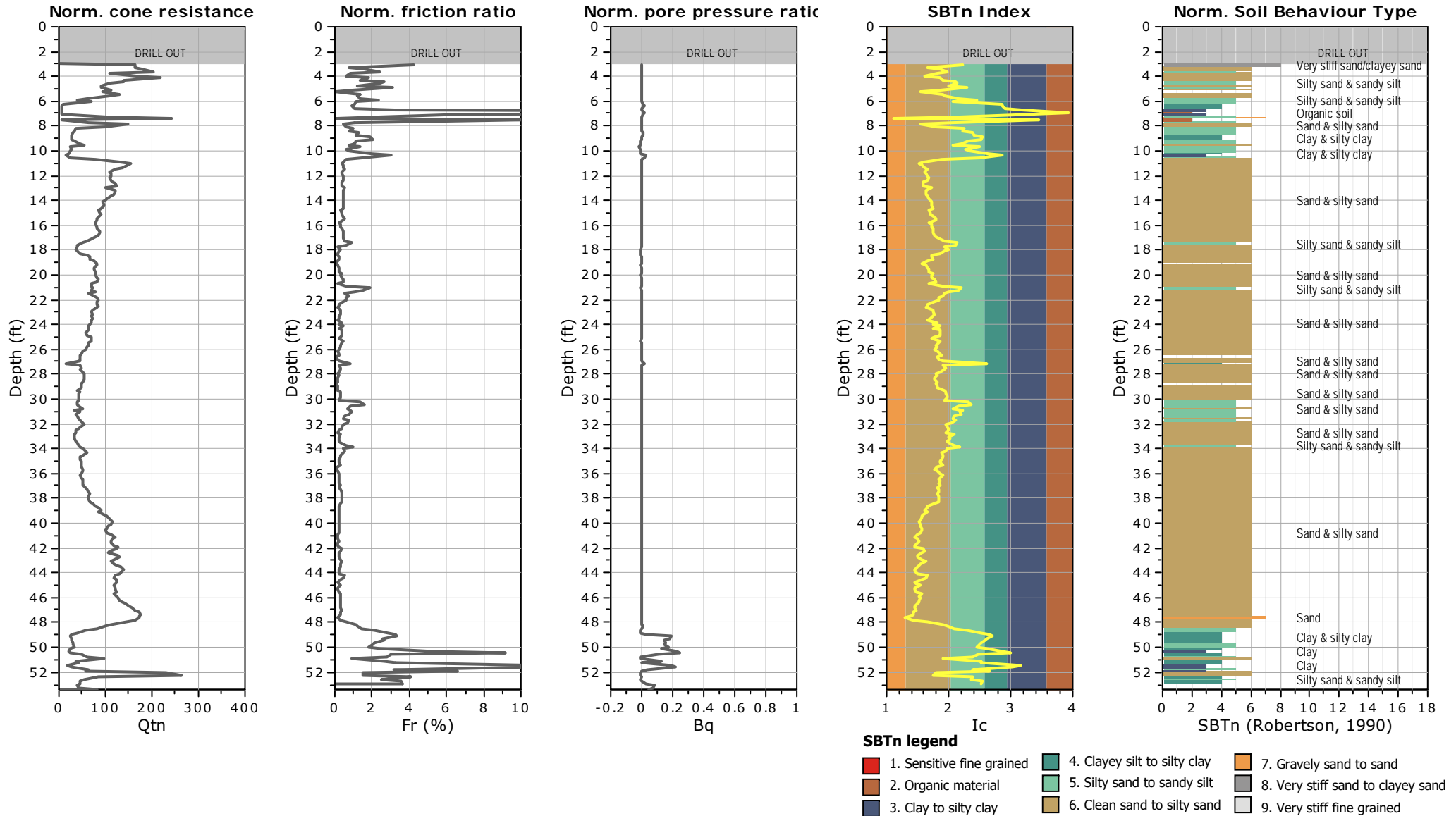




**Fuzzy classification legend**

- Highly probable clayey soil
- Highly probable mixture soil
- Highly probable sandy soil





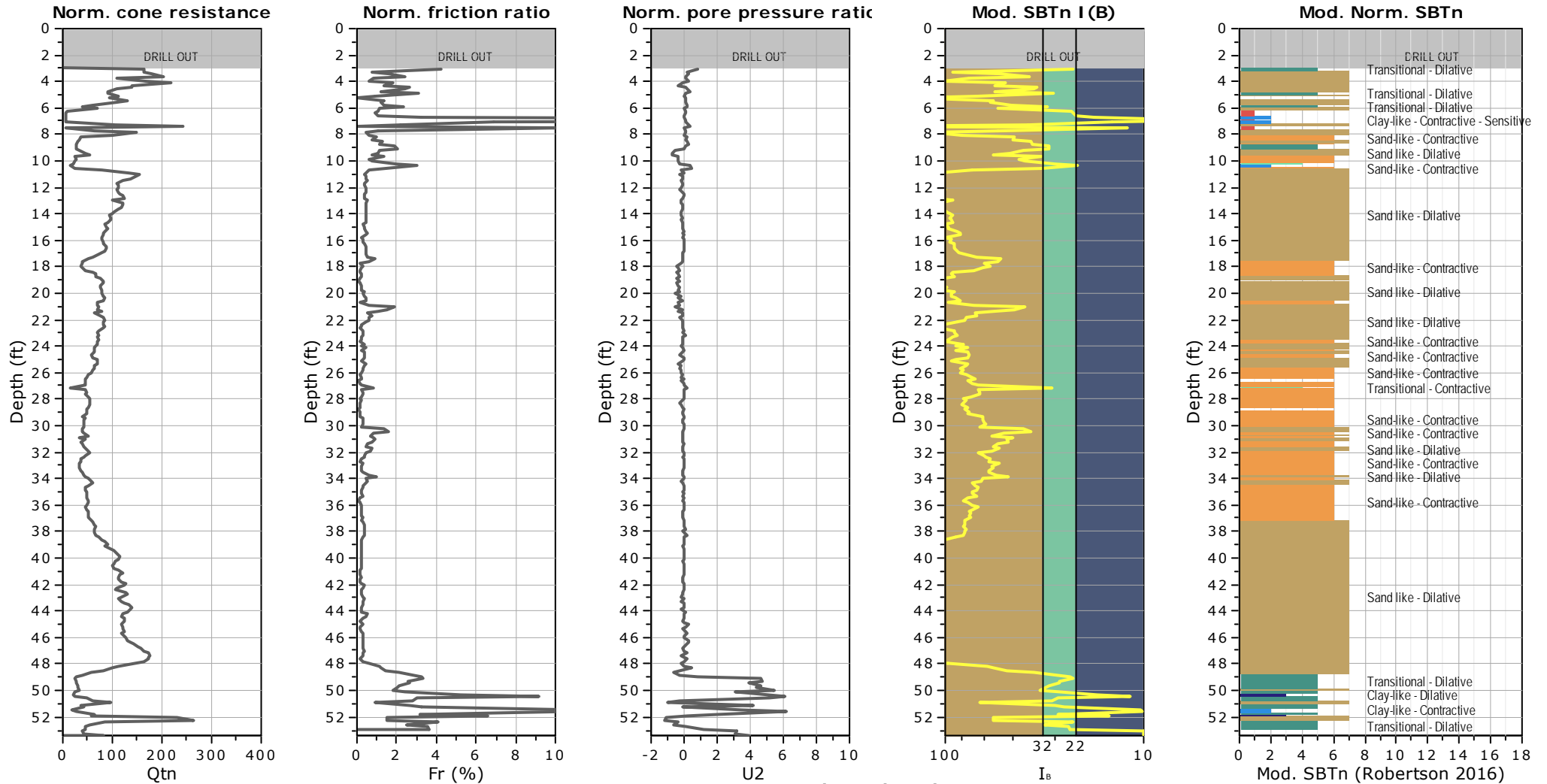


**Project: Langan**

**Location: 145 Wolcott St, Brooklyn NY**

**SCPT-6a**

Total depth: 53.41 ft

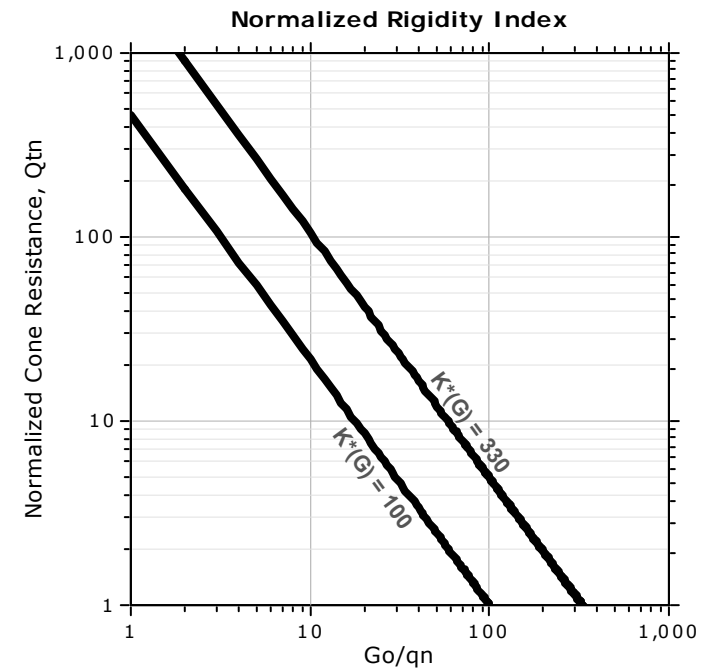
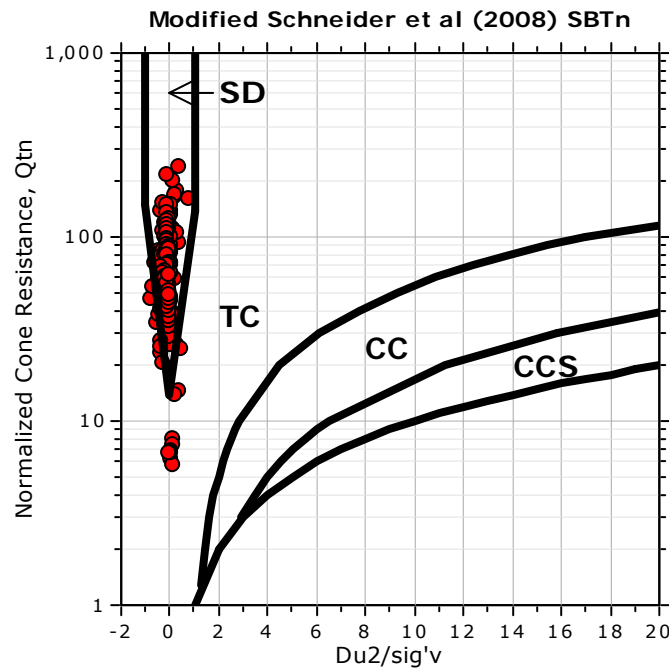
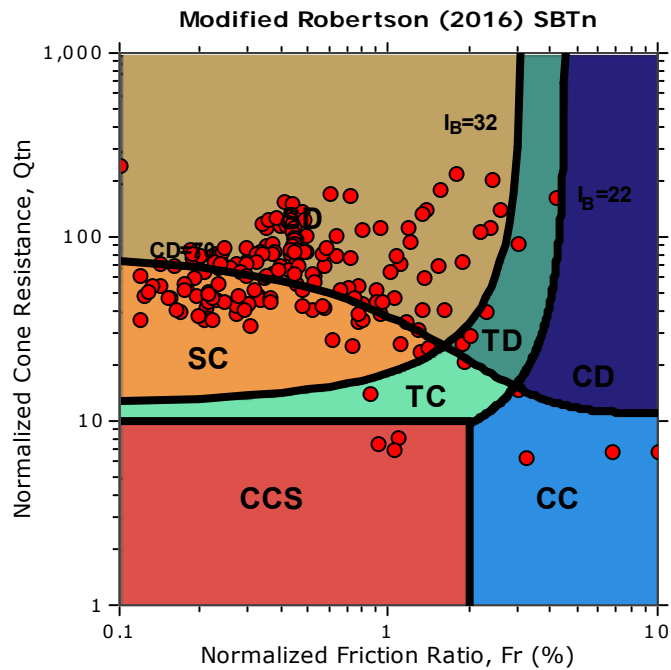


- Mod. SBTn legend**
- 1. CCS: ClayLike - Contractive, Sensitive
  - 2. CC: Clay-like - Contractive
  - 3. CD: Clay-Like: Dilative
  - 4. TC: Transitional - Contractive
  - 5. TD: Transitional - Dilative
  - 6. SC: Sand-like - Contractive
  - 7. SD: Sand-like - Dilative



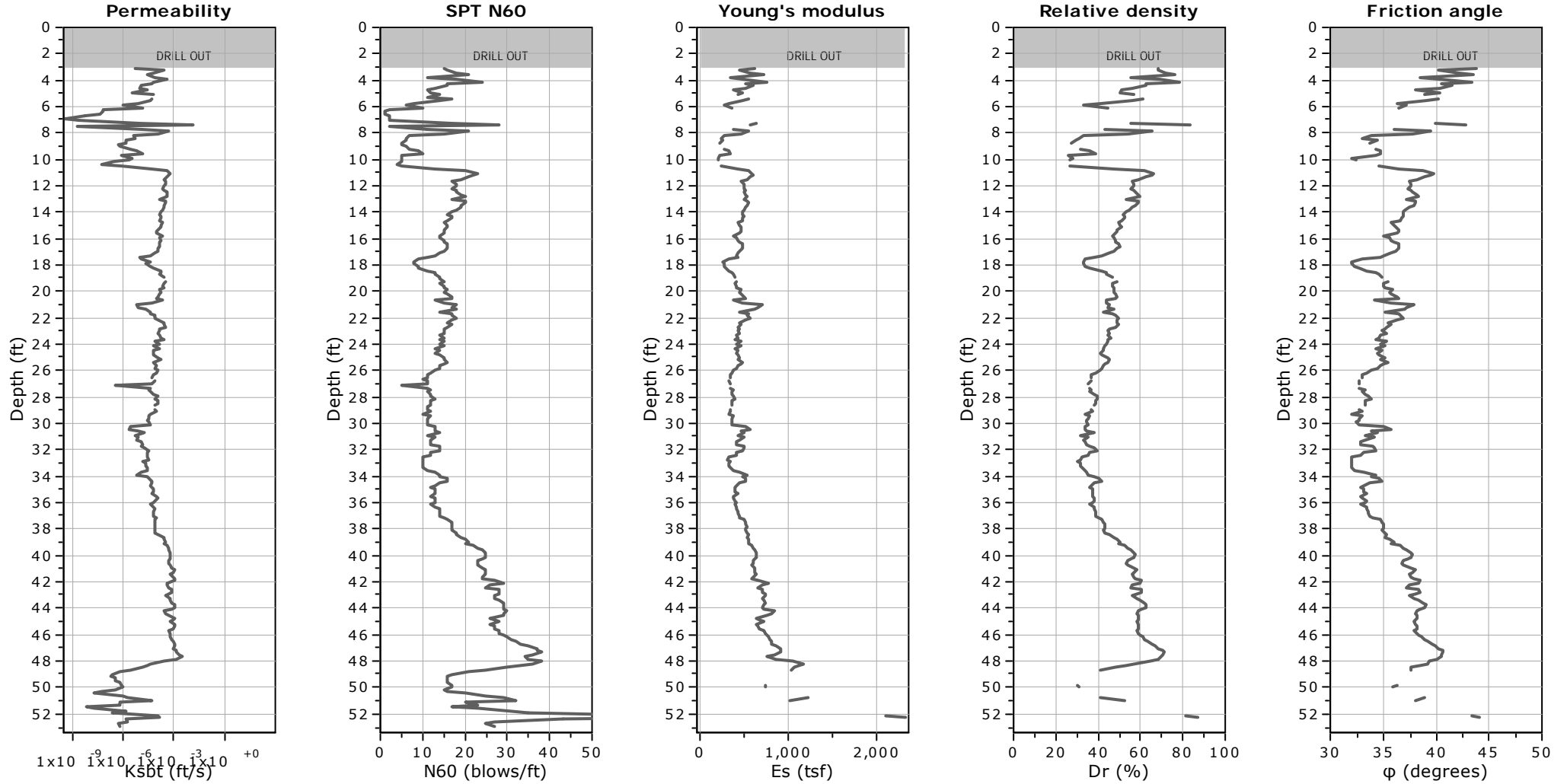


**Updated SBTn plots**



- CCS: Clay-like - Contractive - Sensitive
- CC: Clay-like - Contractive
- CD: Clay-like - Dilative
- TC: Transitional - Contractive
- TD: Transitional - Dilative
- SC: Sand-like - Contractive
- SD: Sand-like - Dilative

$K^*(G) > 330$ : Soils with significant microstructure (e.g. age/cementation)



**Calculation parameters**

Permeability: Based on  $SBT_n$

SPT  $N_{60}$ : Based on  $I_c$  and  $q_t$

Young's modulus: Based on variable alpha using  $I_c$  (Robertson, 2009)

Relative density constant,  $C_{Dr}$ : 350.0

Phi: Based on Kulhawy & Mayne (1990)

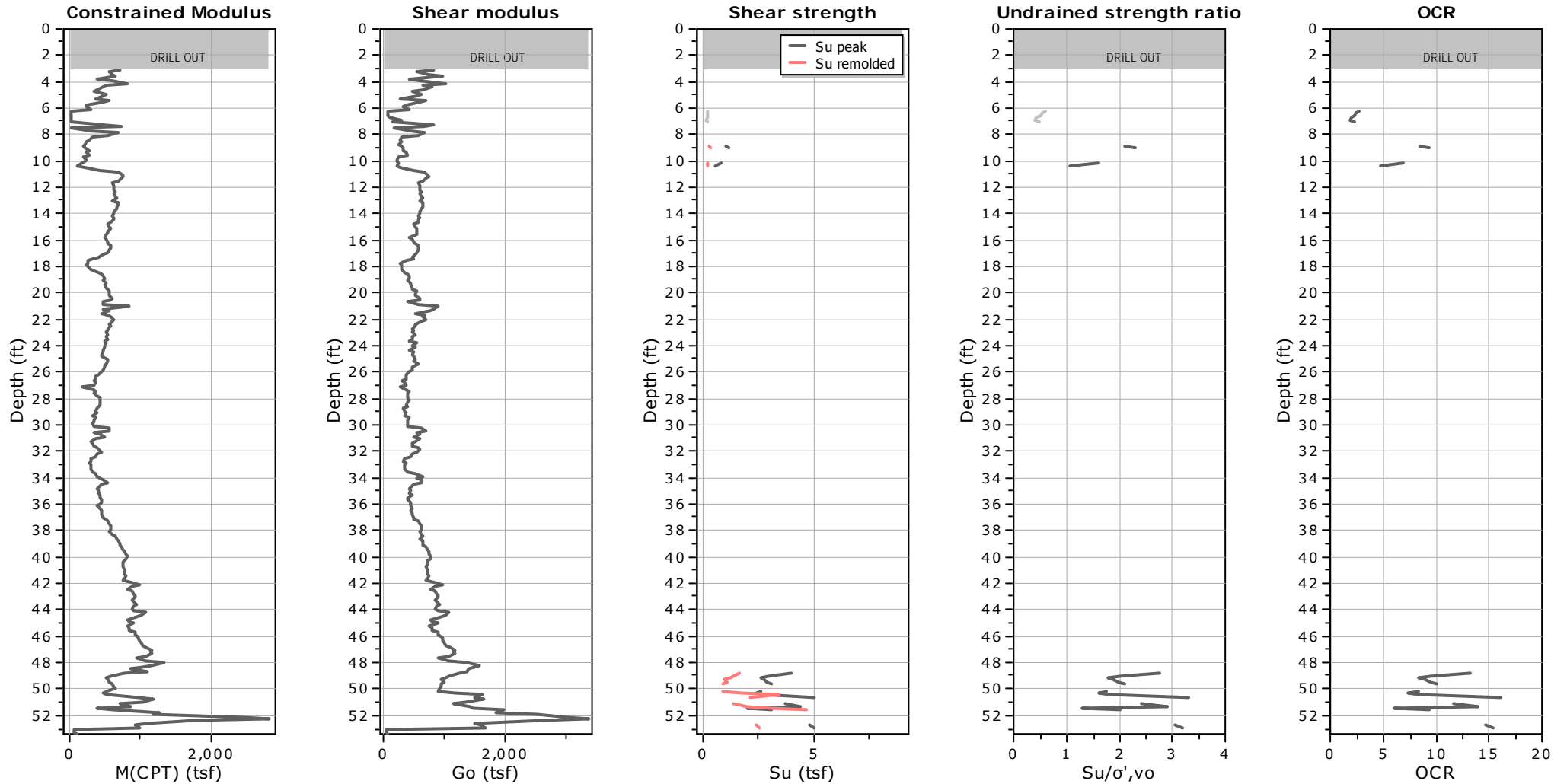


**Project: Langan**

**Location: 145 Wolcott St, Brooklyn NY**

**SCPT-6a**

Total depth: 53.41 ft



**Calculation parameters**

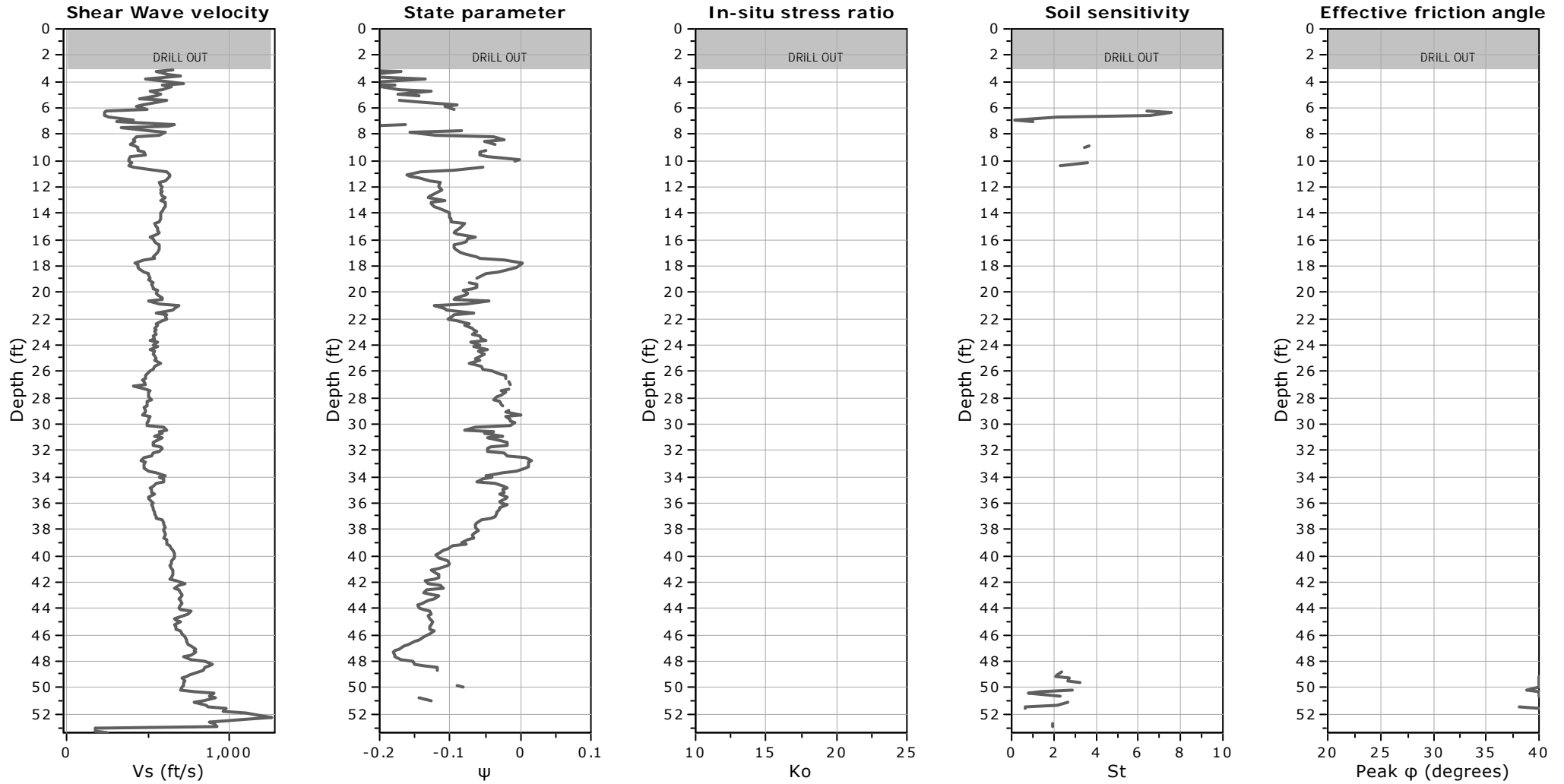
Constrained modulus: Based on variable  $\alpha$  using  $I_c$  and  $Q_{tn}$  (Robertson, 2009)

Go: Based on variable  $\alpha$  using  $I_c$  (Robertson, 2009)

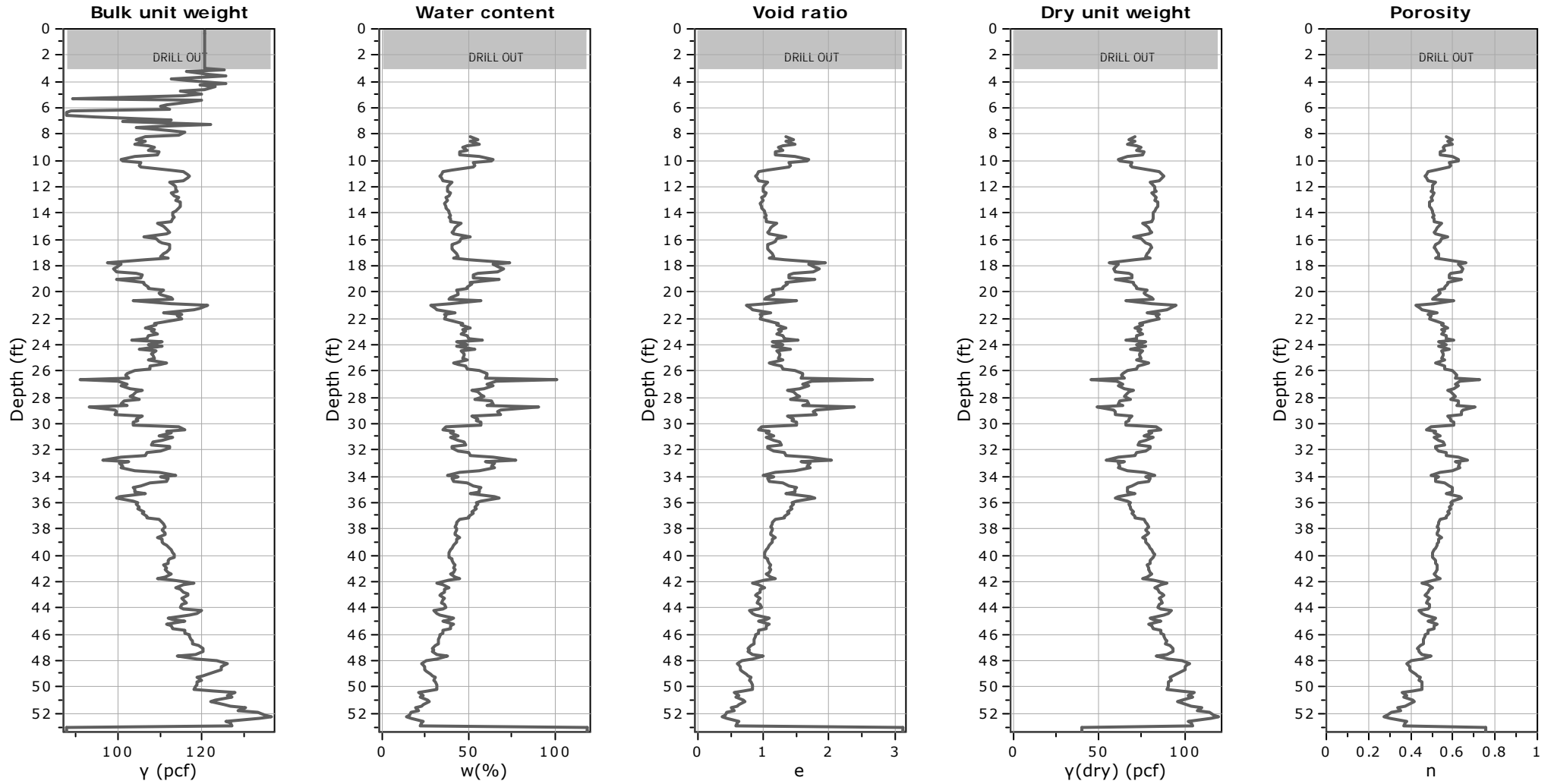
Undrained shear strength cone factor for clays,  $N_{kt}$ : 14

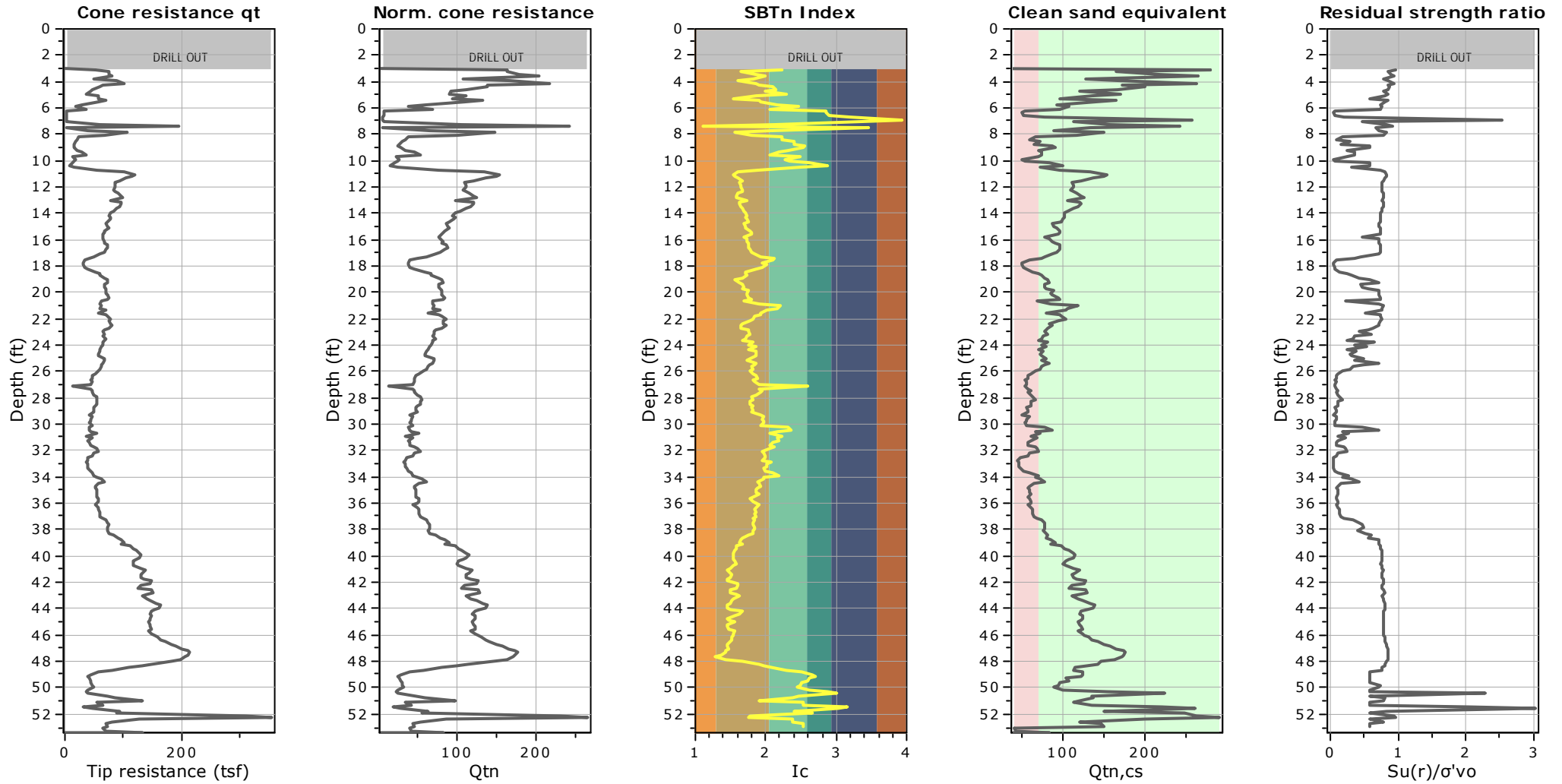
OCR factor for clays,  $N_{kt}$ : 0.33

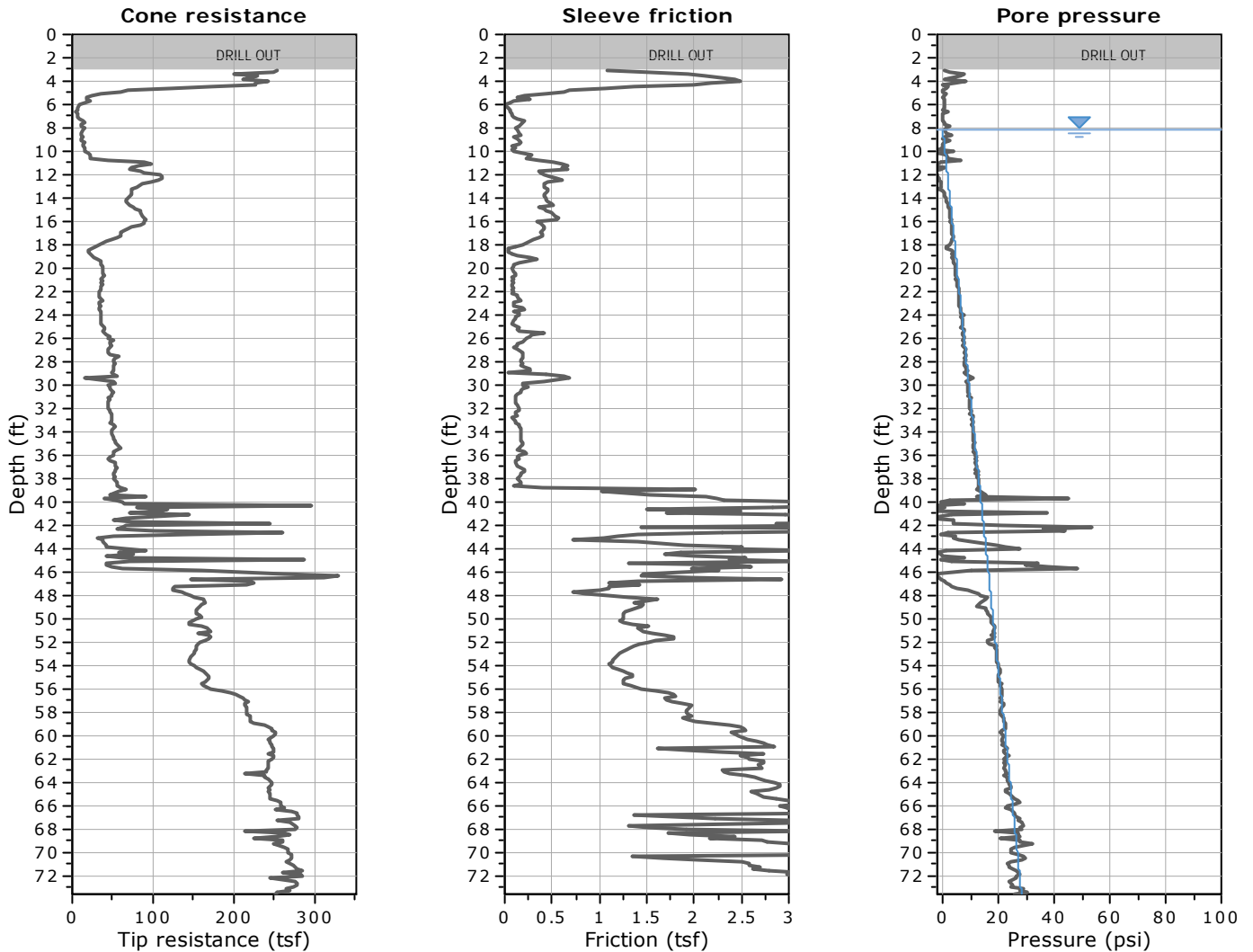
● Flat Dilatometer Test data



**Calculation parameters**  
Soil Sensitivity factor,  $N_s$ : 7.00

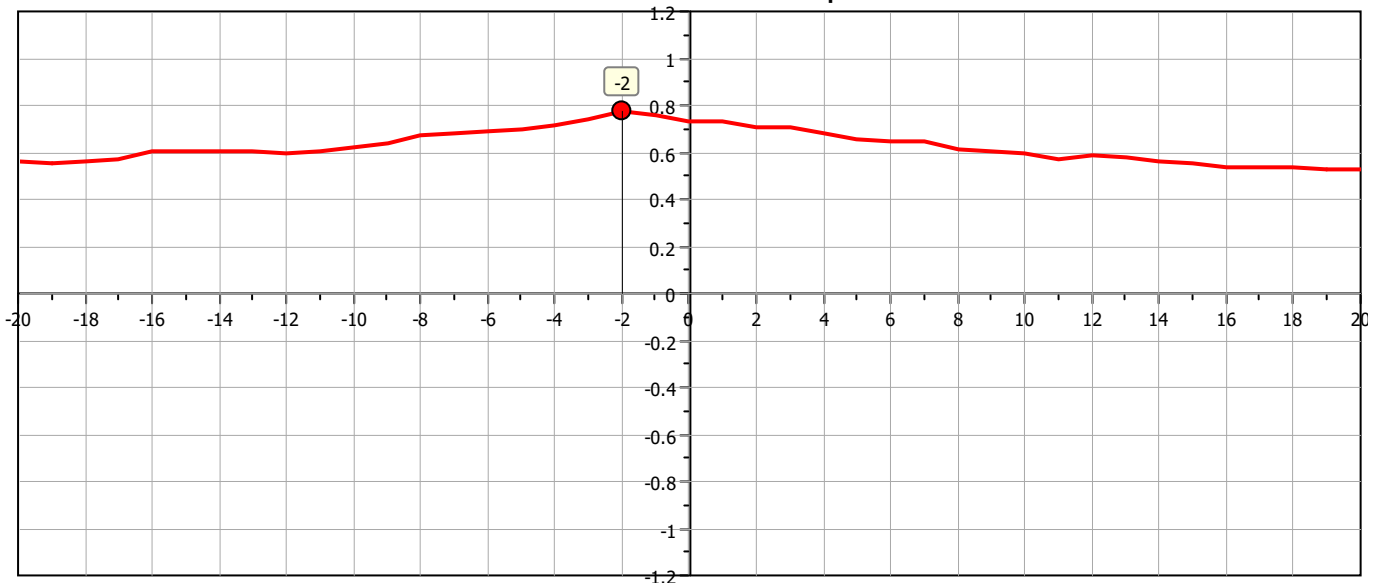






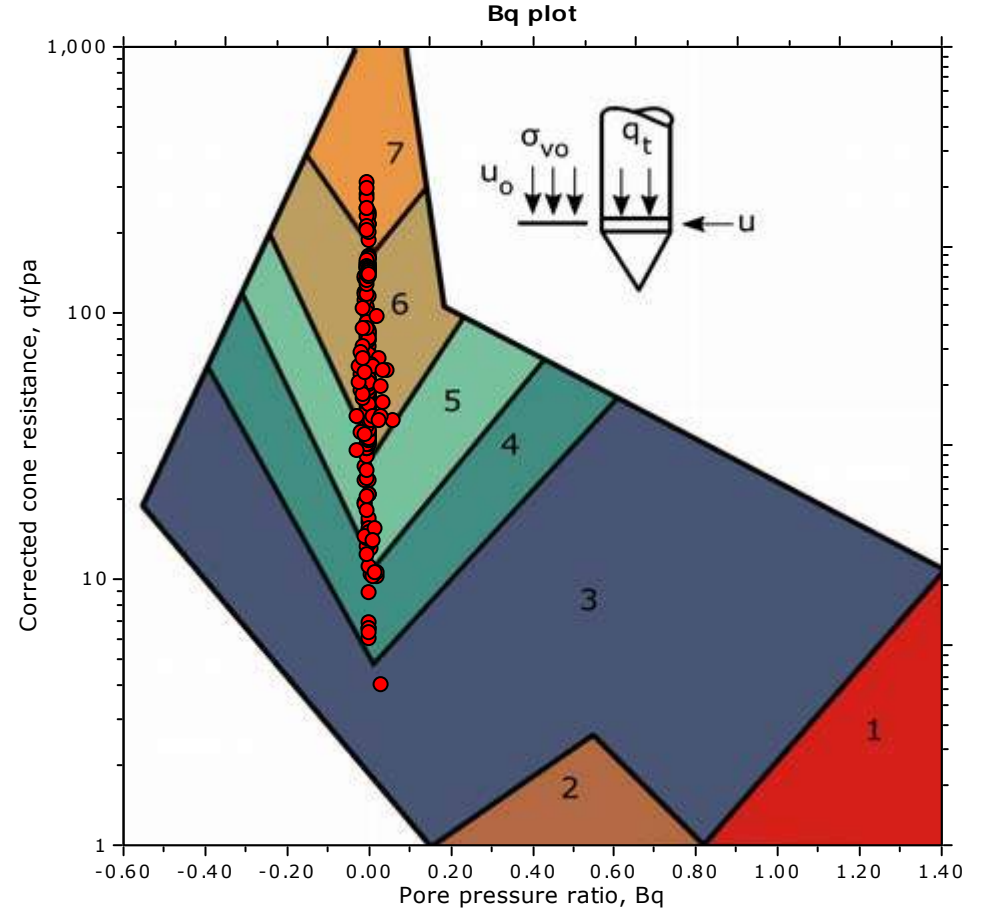
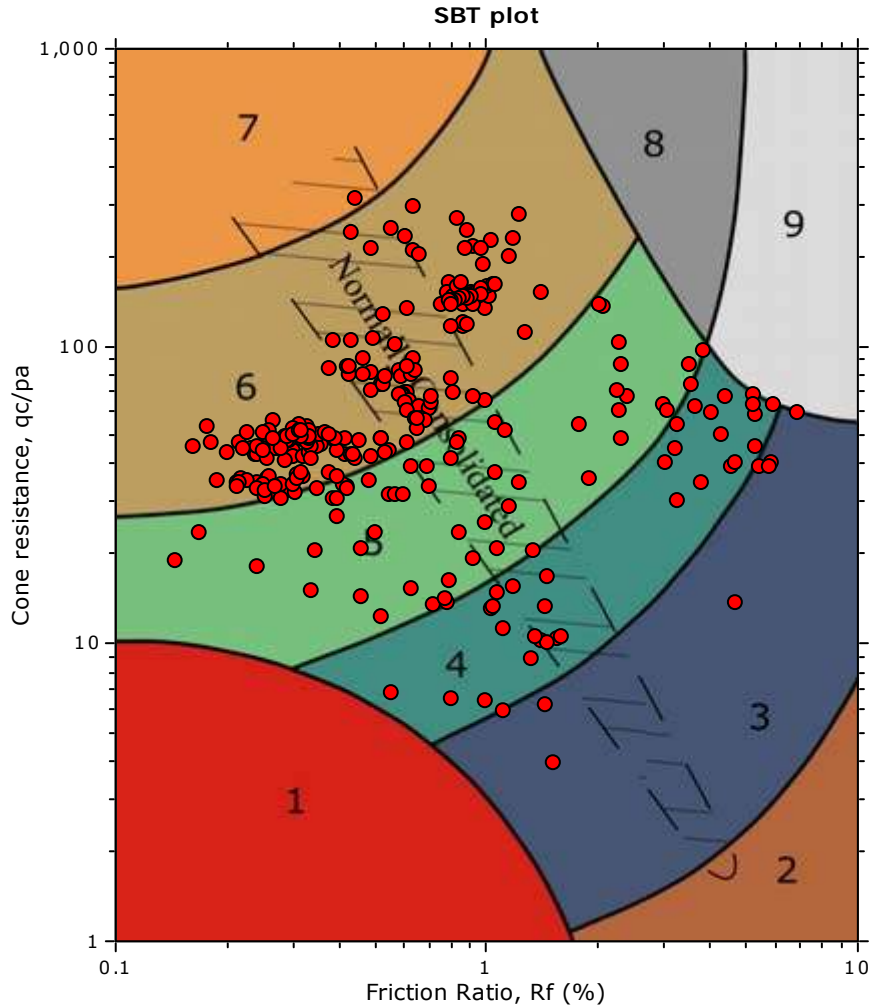
The plot below presents the cross correlation coefficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two successive CPT measurements).

Cross correlation between qc & fs





**SBT - Bq plots**



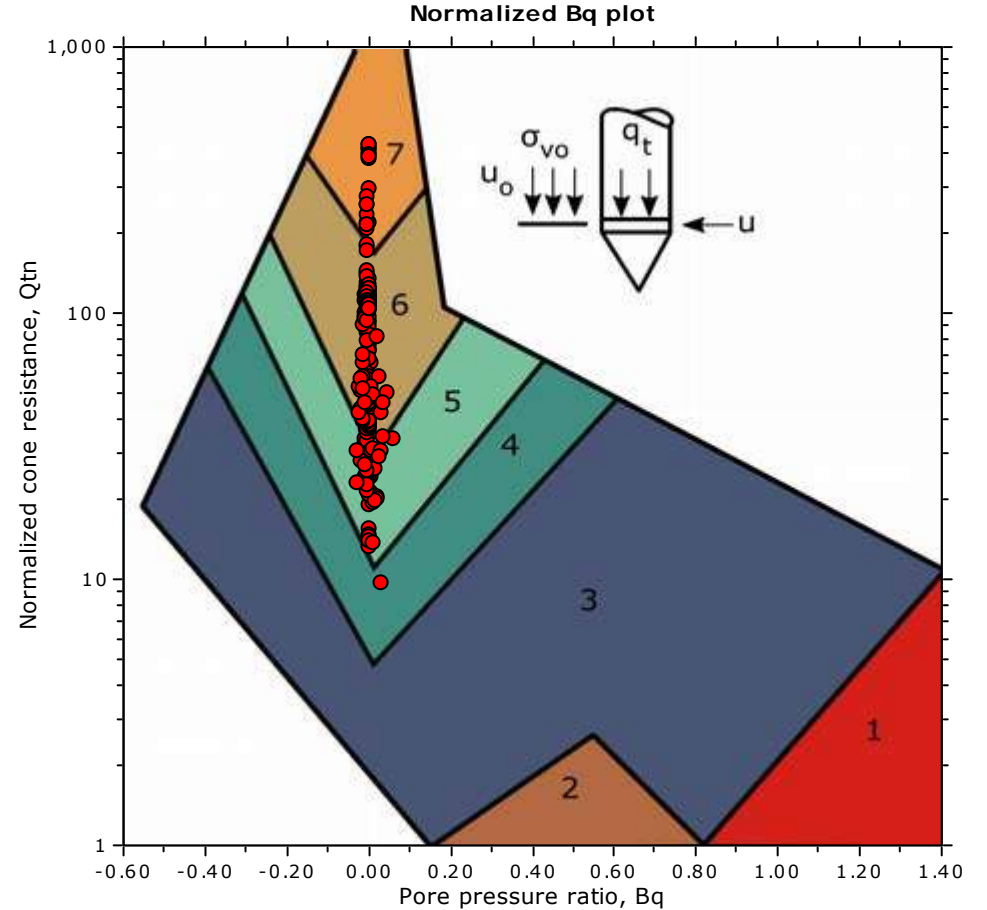
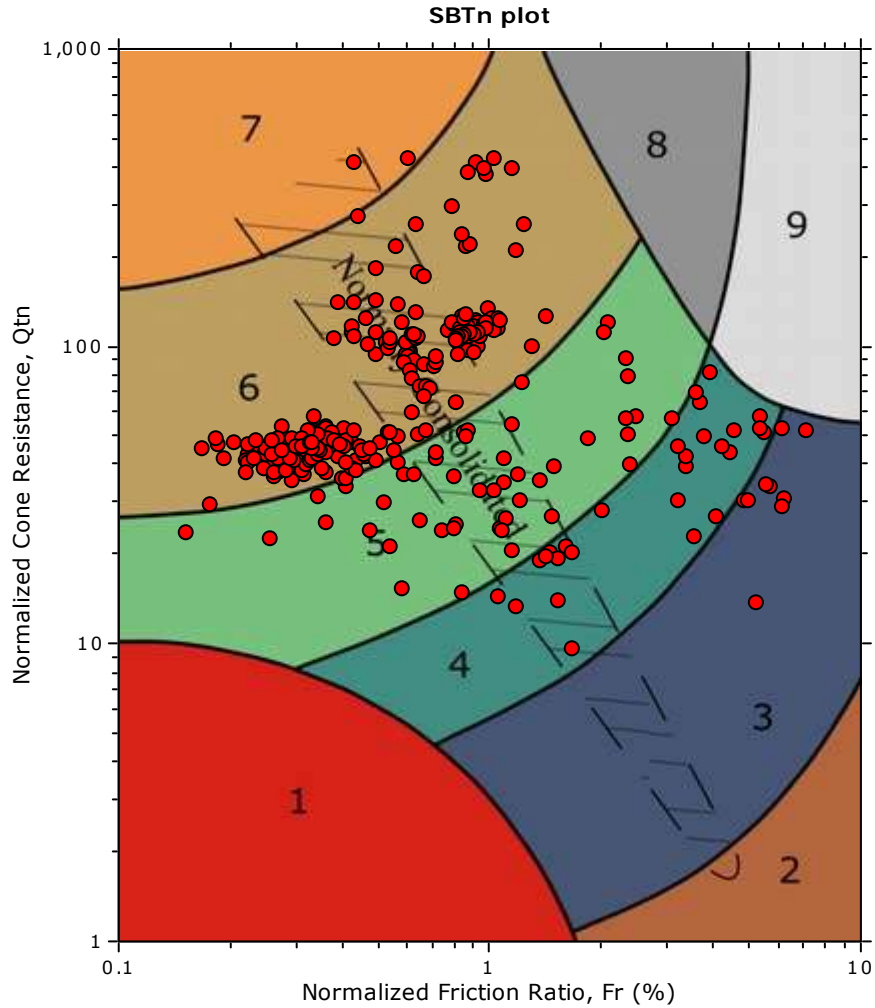
**SBT legend**

- |                           |                              |                                   |
|---------------------------|------------------------------|-----------------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty clay | 7. Gravelly sand to sand          |
| 2. Organic material       | 5. Silty sand to sandy silt  | 8. Very stiff sand to clayey sand |
| 3. Clay to silty clay     | 6. Clean sand to silty sand  | 9. Very stiff fine grained        |





**SBT - Bq plots (normalized)**

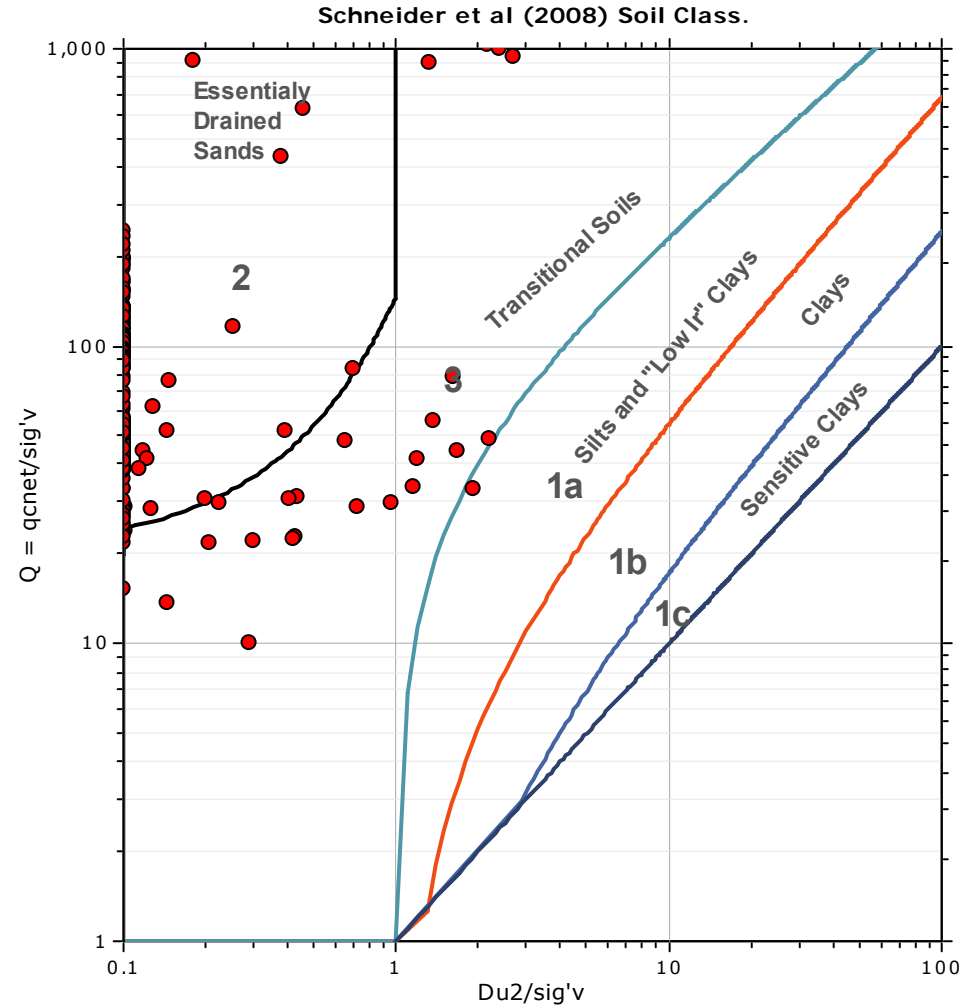
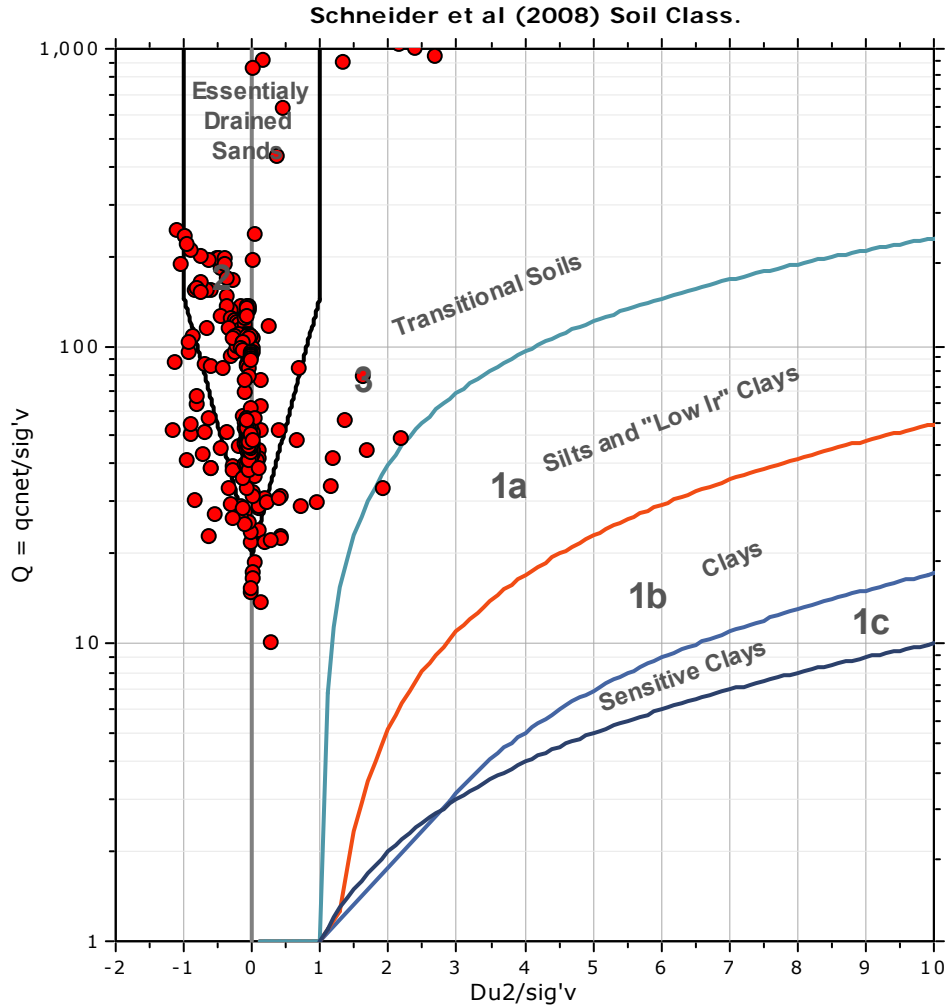


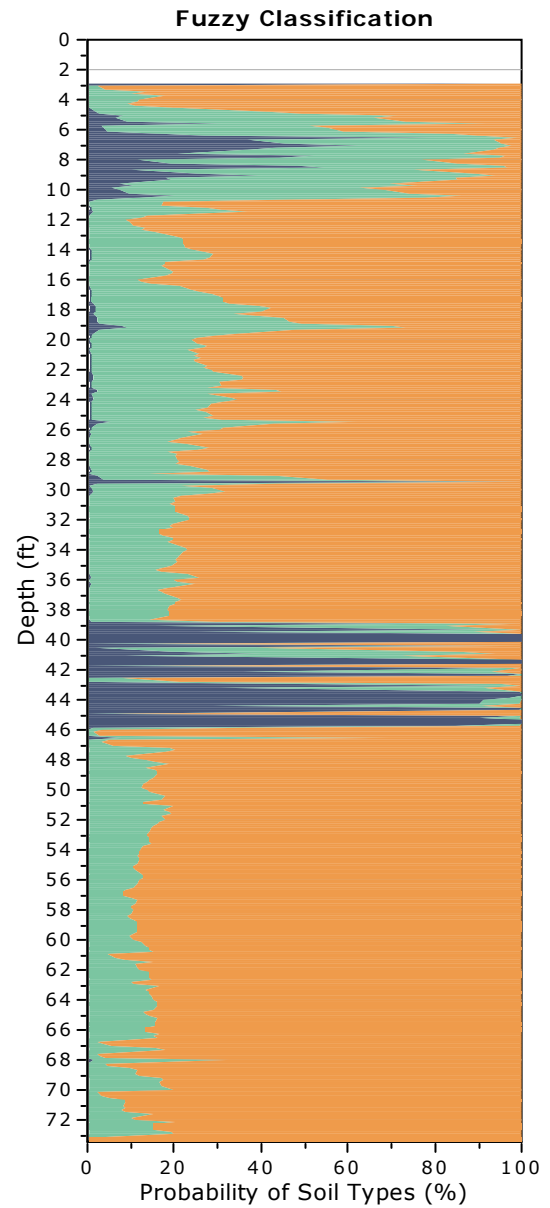
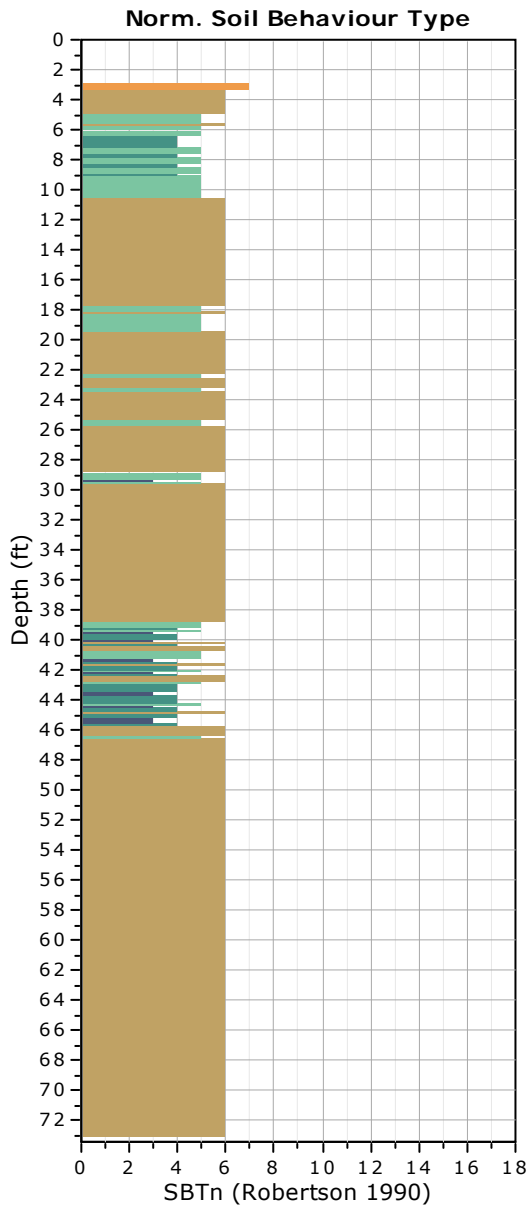
**SBTn legend**

- |                                                              |                                                                       |                                                                       |
|--------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| <span style="color: red;">■</span> 1. Sensitive fine grained | <span style="color: teal;">■</span> 4. Clayey silt to silty clay      | <span style="color: orange;">■</span> 7. Gravelly sand to sand        |
| <span style="color: brown;">■</span> 2. Organic material     | <span style="color: lightgreen;">■</span> 5. Silty sand to sandy silt | <span style="color: grey;">■</span> 8. Very stiff sand to clayey sand |
| <span style="color: blue;">■</span> 3. Clay to silty clay    | <span style="color: tan;">■</span> 6. Clean sand to silty sand        | <span style="color: lightgrey;">■</span> 9. Very stiff fine grained   |

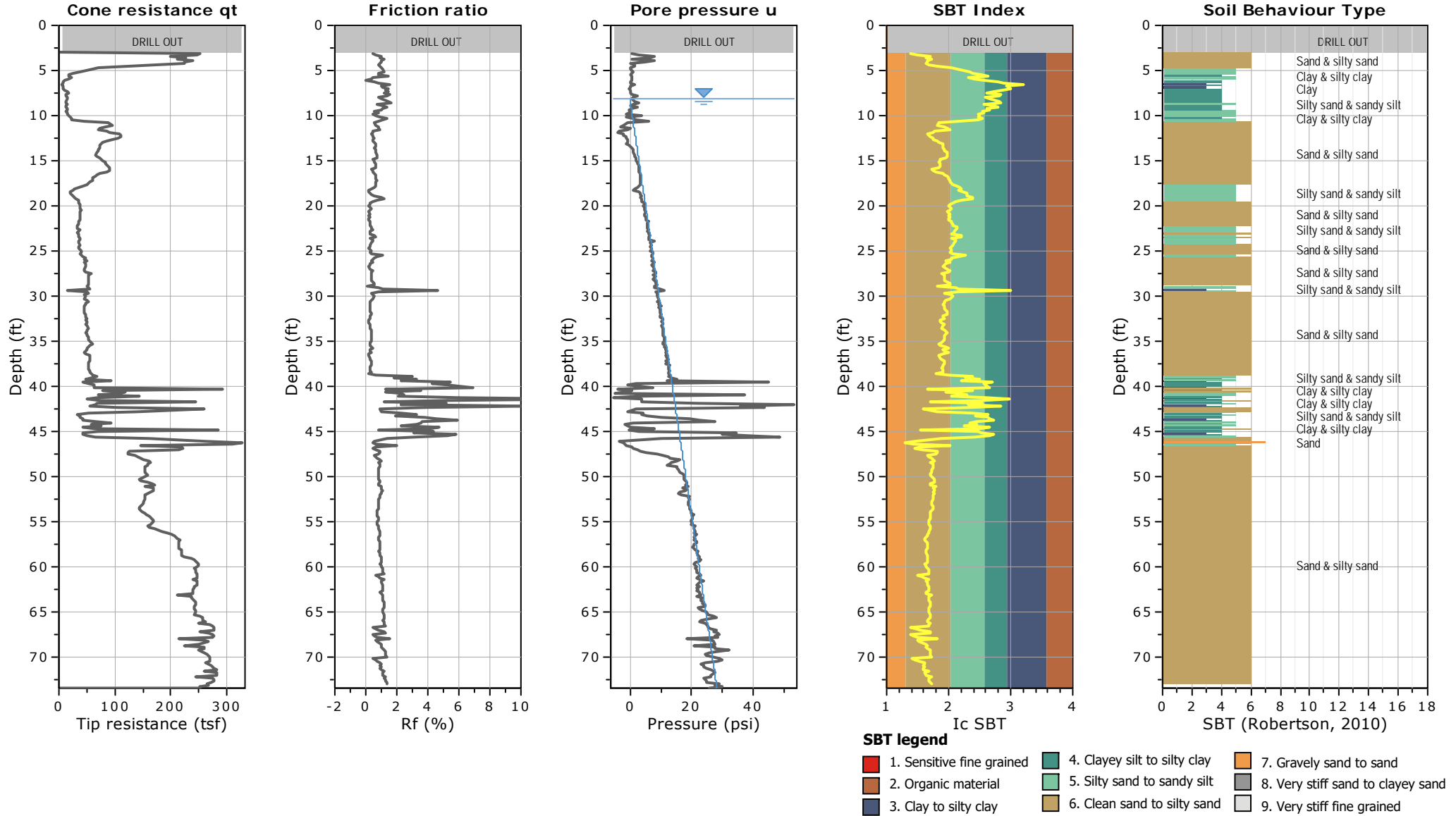


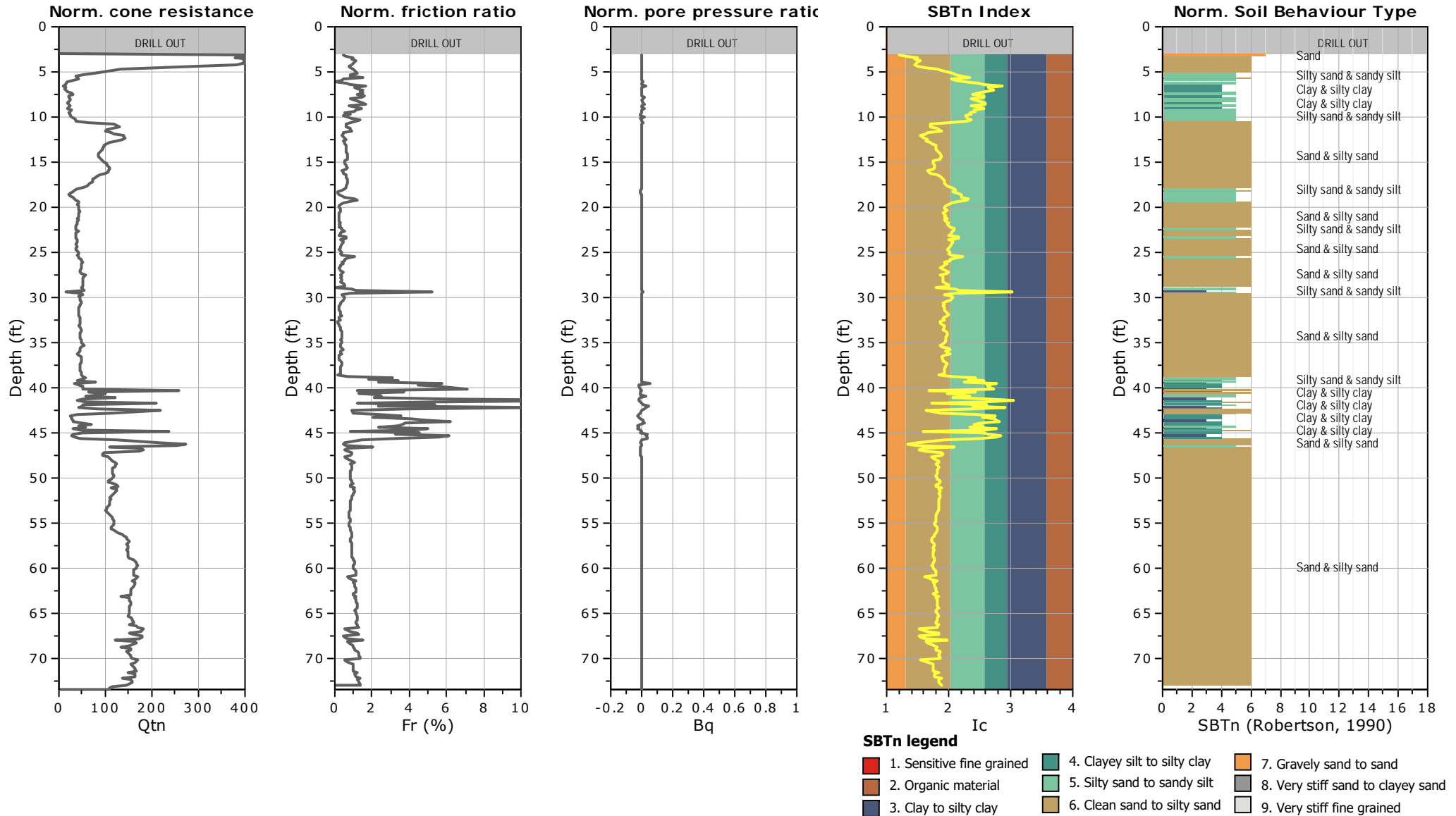
### Bq plots (Schneider)

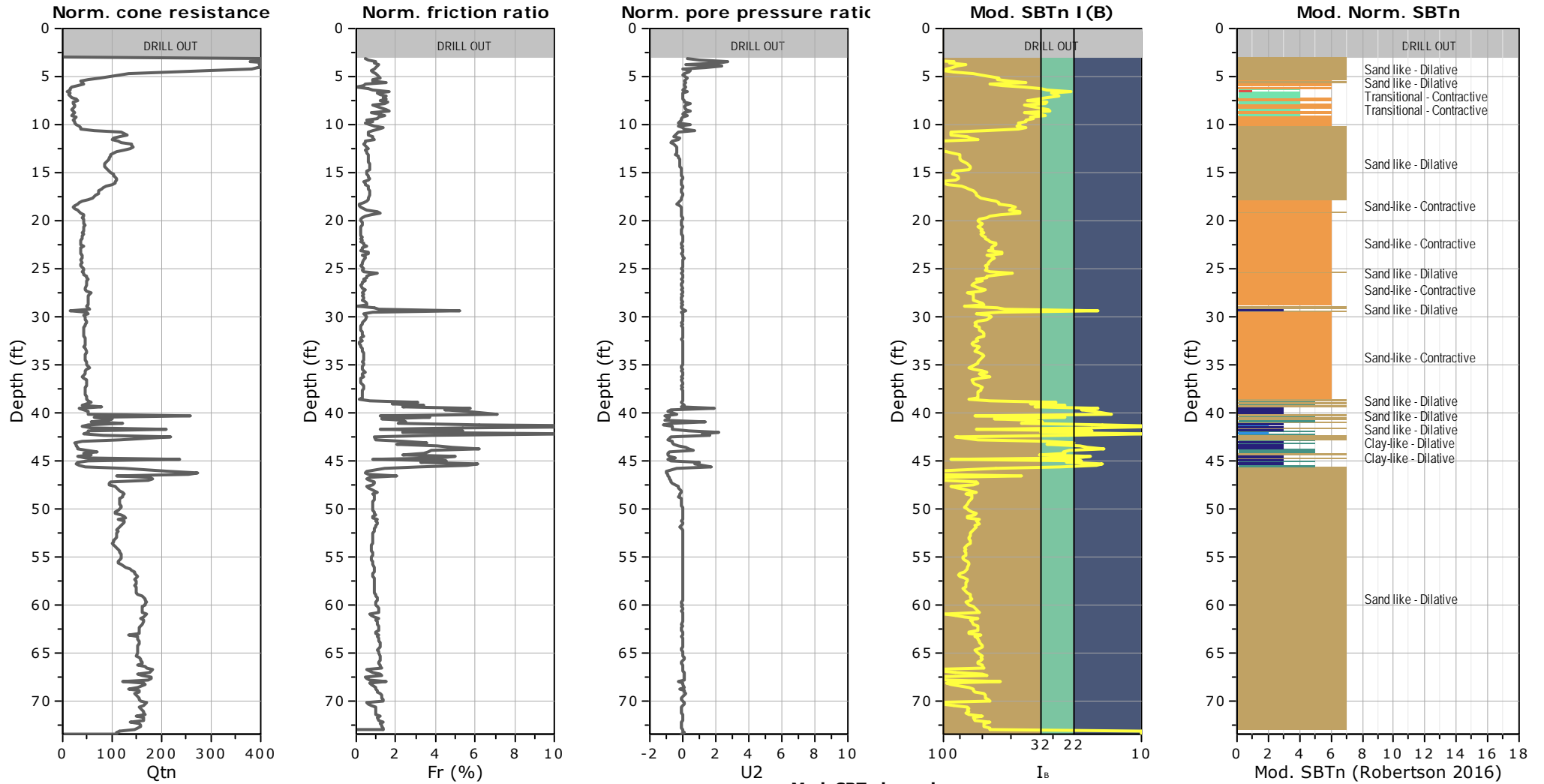




- Fuzzy classification legend**
- Highly probable clayey soil
  - Highly probable mixture soil
  - Highly probable sandy soil



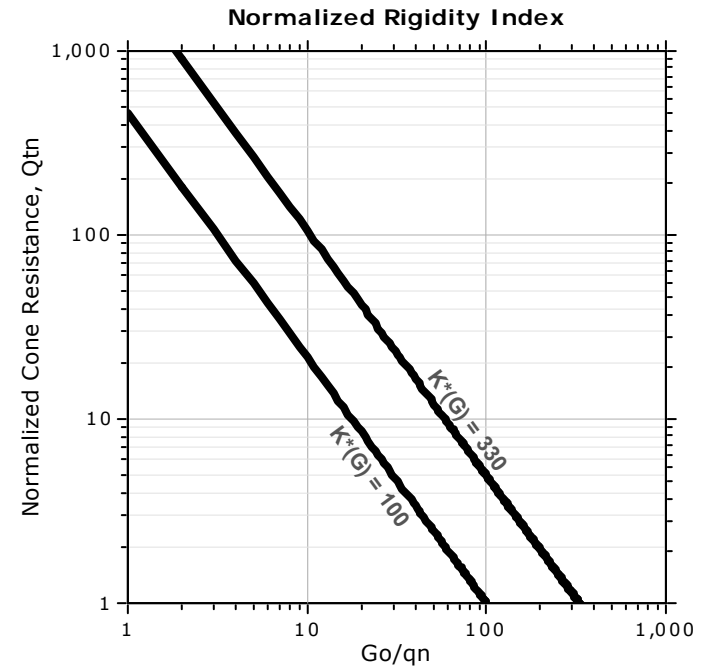
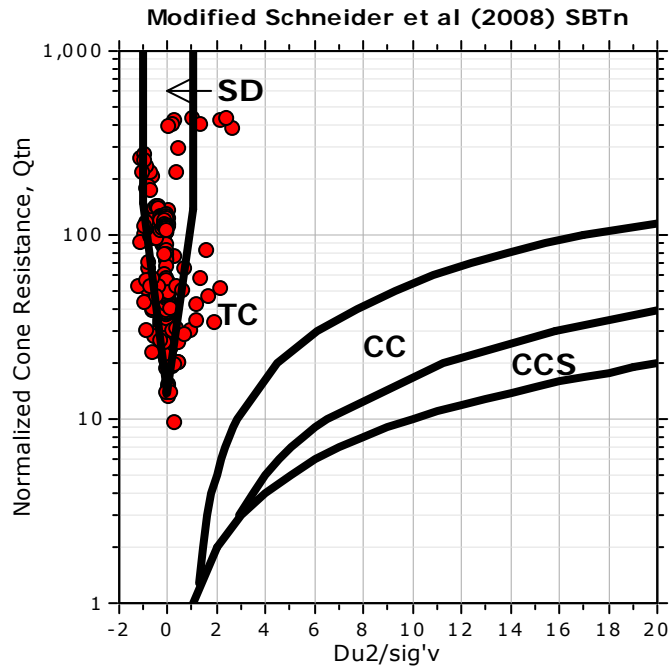
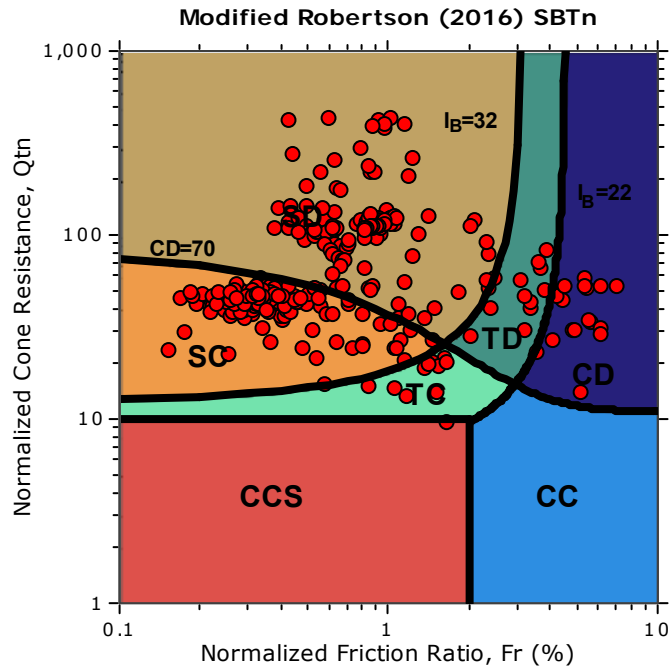




- Mod. SBTn legend**
- 1. CCS: ClayLike - Contractive, Sensitive
  - 2. CC: Clay-like - Contractive
  - 3. CD: Clay-Like: Dilative
  - 4. TC: Transitional - Contractive
  - 5. TD: Transitional - Dilative
  - 6. SC: Sand-like - Contractive
  - 7. SD: Sand-like - Dilative

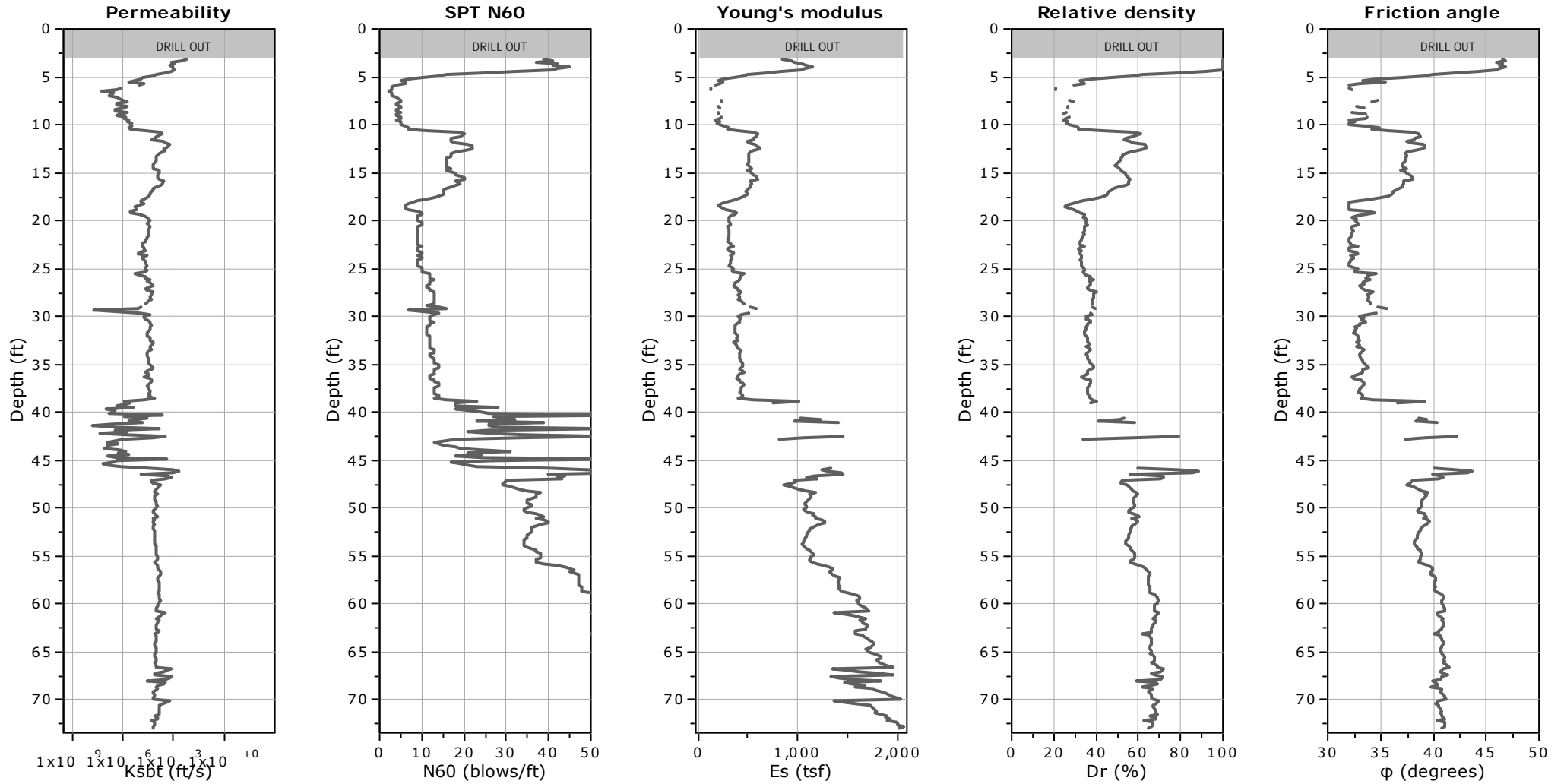


**Updated SBTn plots**



- CCS: Clay-like - Contractive - Sensitive
- CC: Clay-like - Contractive
- CD: Clay-like - Dilative
- TC: Transitional - Contractive
- TD: Transitional - Dilative
- SC: Sand-like - Contractive
- SD: Sand-like - Dilative

$K^*(G) > 330$ : Soils with significant microstructure (e.g. age/cementation)



**Calculation parameters**

Permeability: Based on  $SBT_n$

SPT  $N_{60}$ : Based on  $I_c$  and  $q_t$

Young's modulus: Based on variable alpha using  $I_c$  (Robertson, 2009)

Relative density constant,  $C_{Dr}$ : 350.0

Phi: Based on Kulhawy & Mayne (1990)



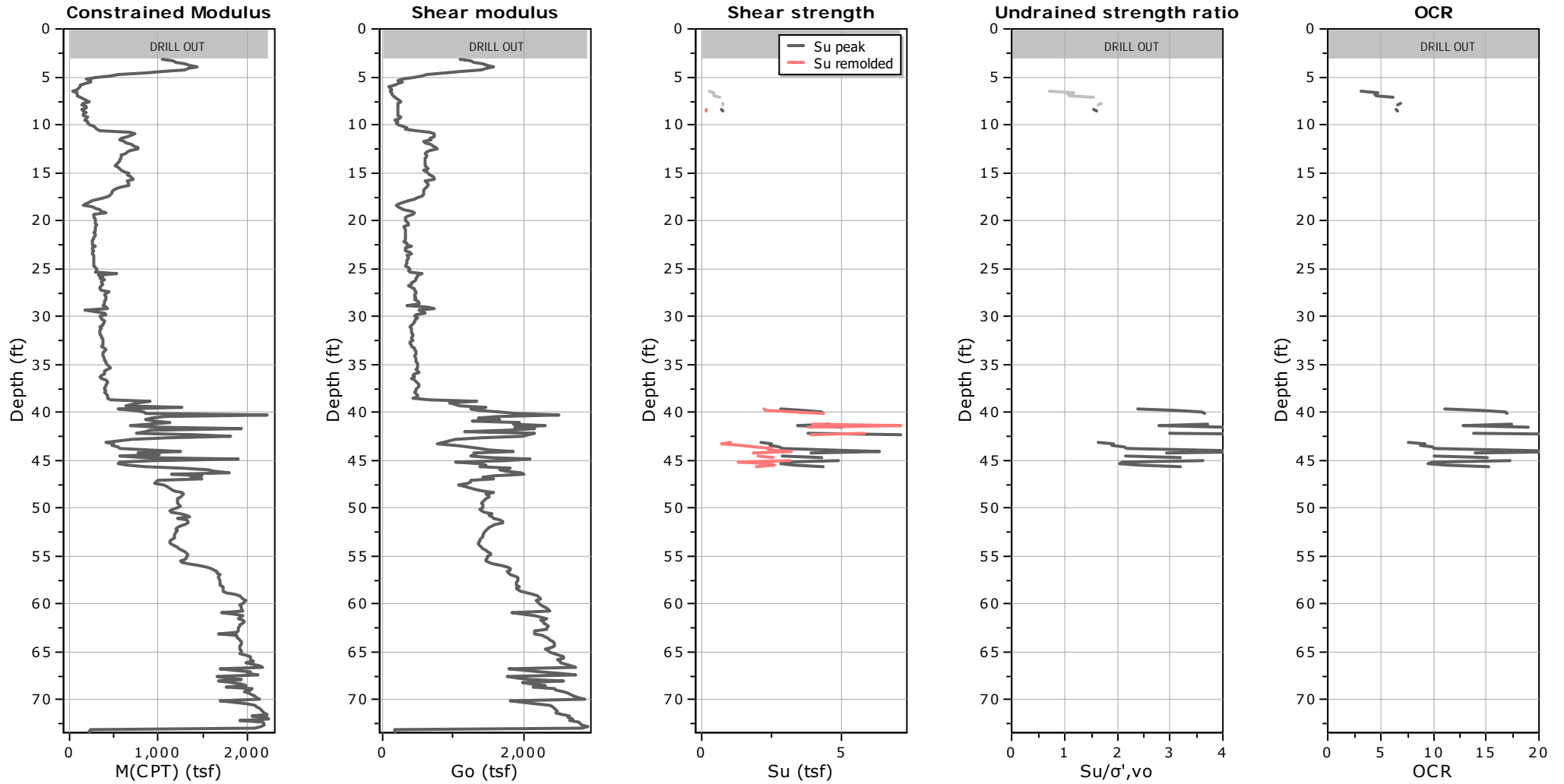


**Project: Langan**

**Location: 145 Wolcott St, Brooklyn NY**

**SCPT-6b**

Total depth: 73.46 ft



**Calculation parameters**

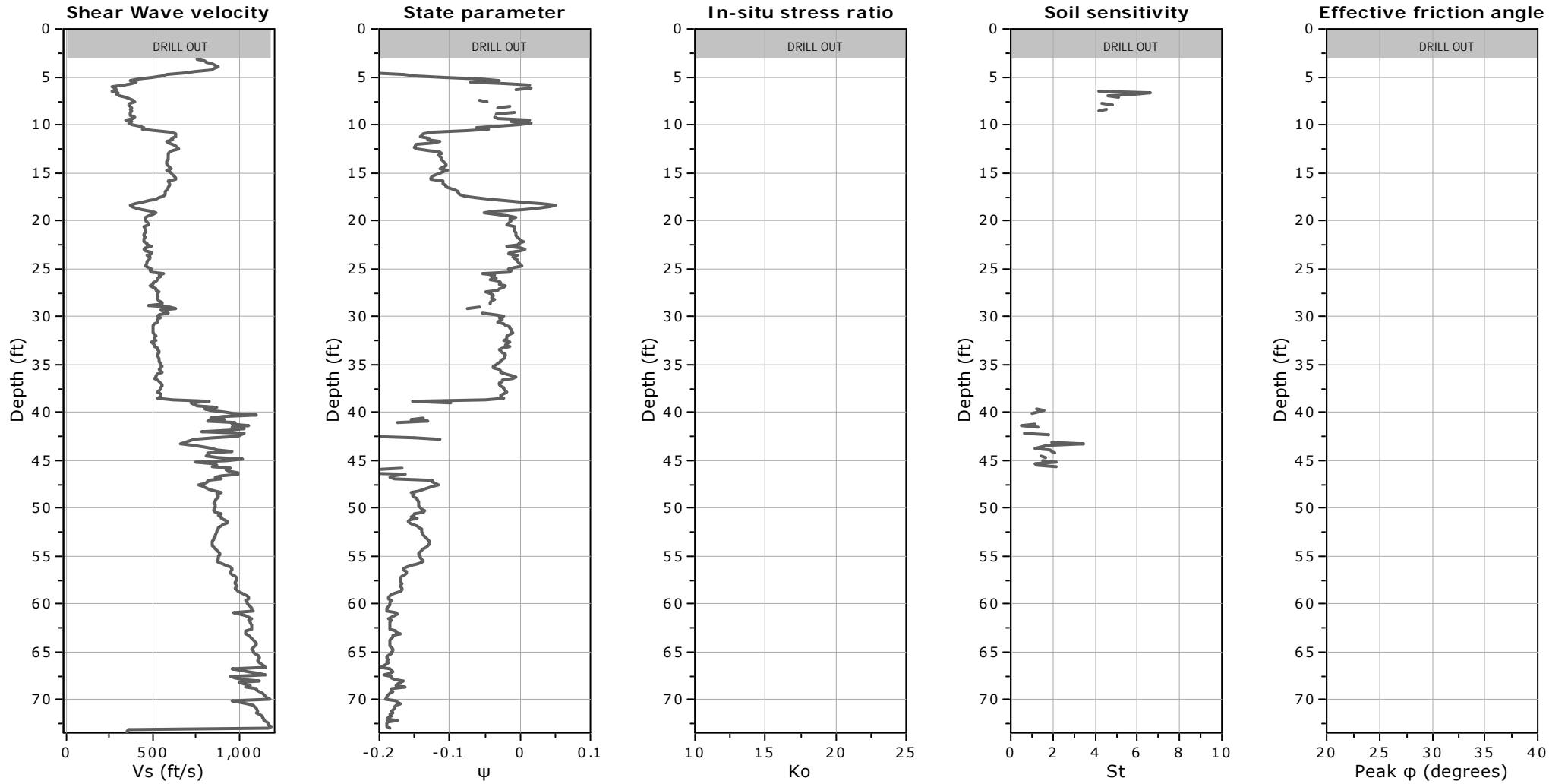
Constrained modulus: Based on variable  $\alpha$  using  $I_c$  and  $Q_{tn}$  (Robertson, 2009)

Go: Based on variable  $\alpha$  using  $I_c$  (Robertson, 2009)

Undrained shear strength cone factor for clays,  $N_{kt}$ : 14

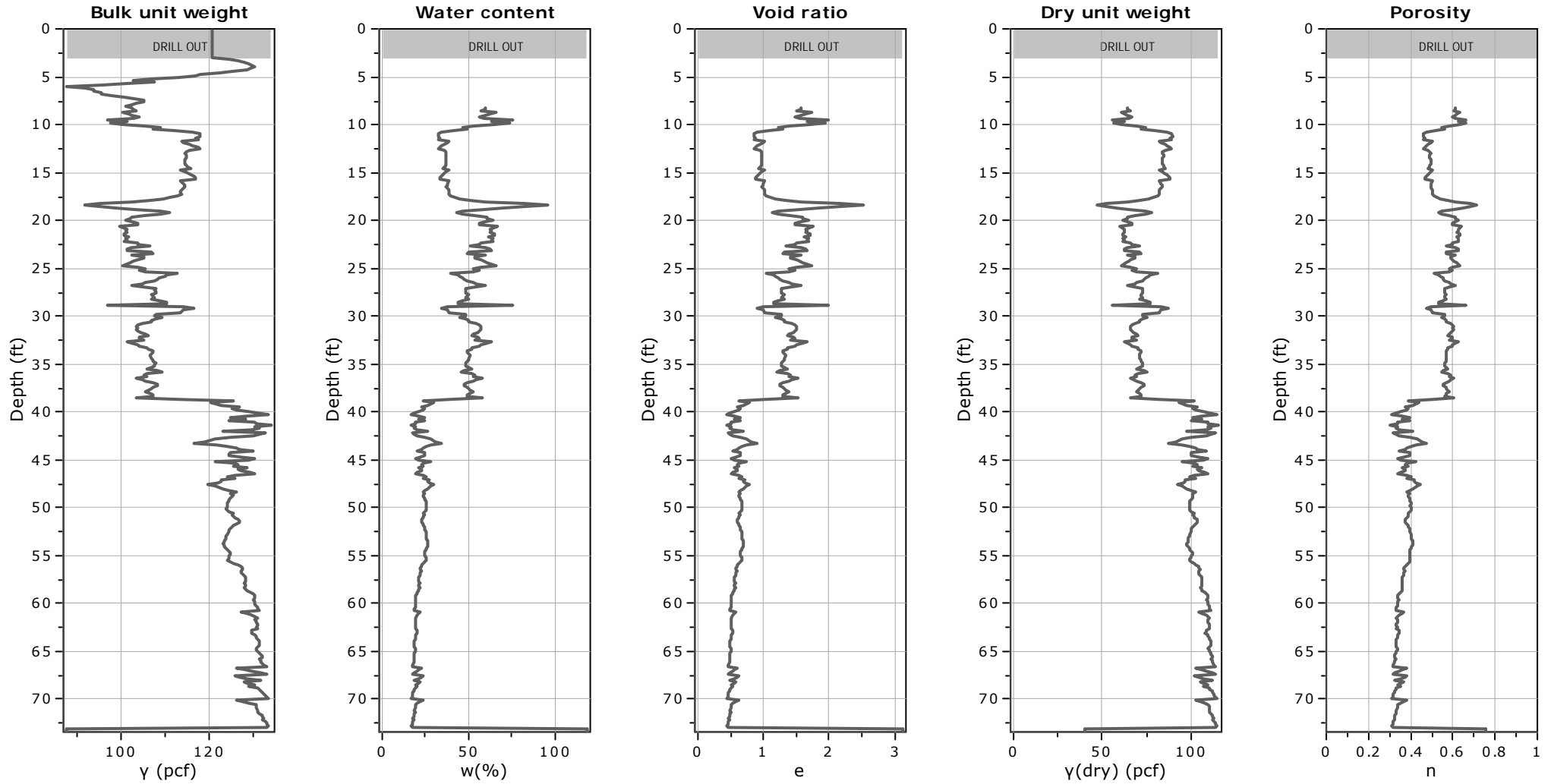
OCR factor for clays,  $N_{kt}$ : 0.33

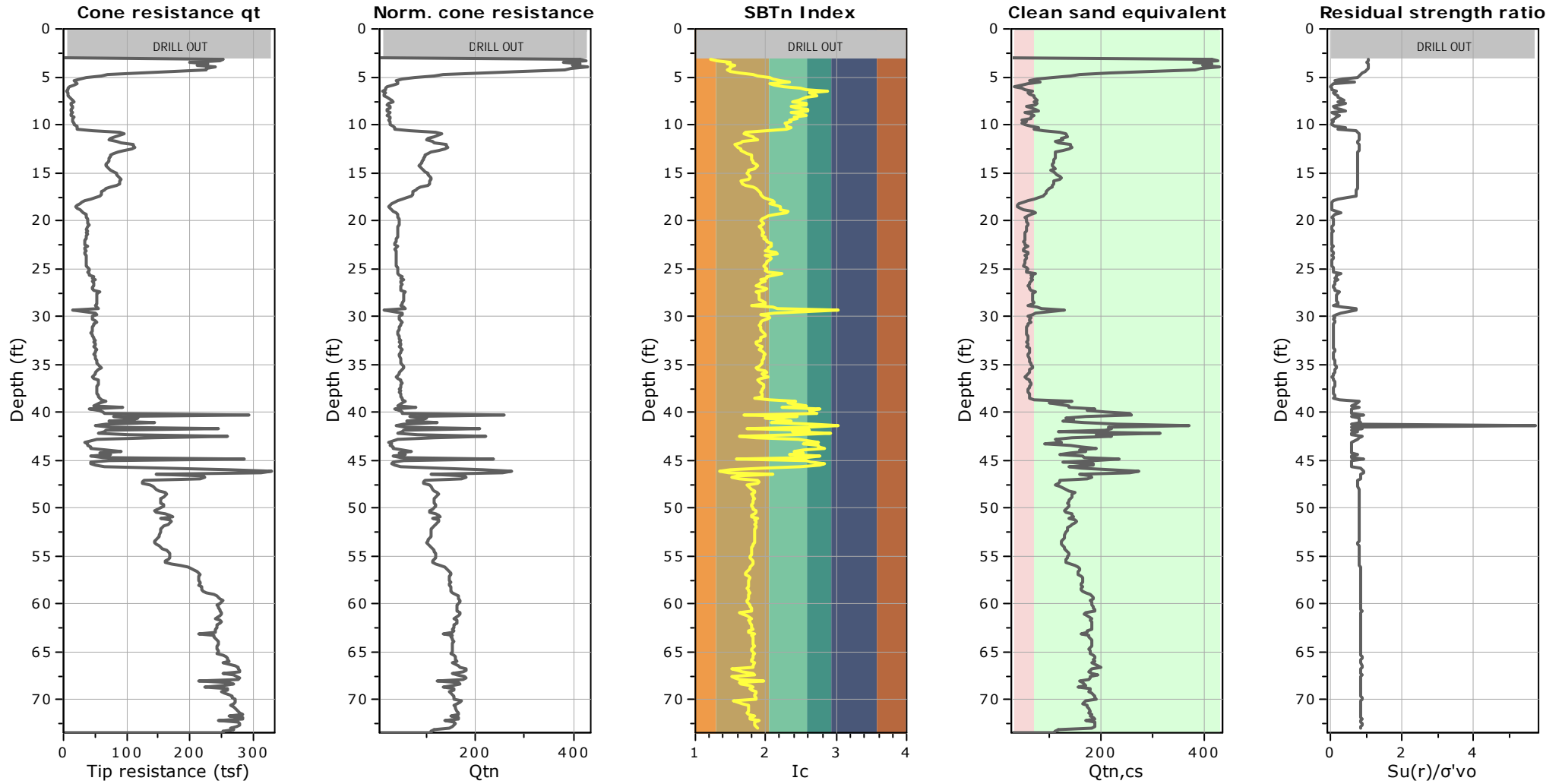
● Flat Dilatometer Test data



**Calculation parameters**

Soil Sensitivity factor,  $N_s$ : 7.00





Presented below is a list of formulas used for the estimation of various soil properties. The formulas are presented in SI unit system and assume that all components are expressed in the same units.

**:: Unit Weight,  $g$  (kN/m<sup>3</sup>) ::**

$$g = g_w \cdot \left( 0.27 \cdot \log(R_f) + 0.36 \cdot \log\left(\frac{q_t}{p_a}\right) + 1.236 \right)$$

where  $g_w$  = water unit weight

**:: Permeability,  $k$  (m/s) ::**

$$I_c < 3.27 \text{ and } I_c > 1.00 \text{ then } k = 10^{0.952-3.04 \cdot I_c}$$

$$I_c \leq 4.00 \text{ and } I_c > 3.27 \text{ then } k = 10^{-4.52-1.37 \cdot I_c}$$

**:: N<sub>SPT</sub> (blows per 30 cm) ::**

$$N_{60} = \left(\frac{q_c}{p_a}\right) \cdot \frac{1}{10^{1.1268-0.2817 \cdot I_c}}$$

$$N_{1(60)} = Q_{tn} \cdot \frac{1}{10^{1.1268-0.2817 \cdot I_c}}$$

**:: Young's Modulus,  $E_s$  (MPa) ::**

$$(q_t - \sigma_v) \cdot 0.015 \cdot 10^{0.55 \cdot I_c + 1.68}$$

(applicable only to  $I_c < I_{c\_cutoff}$ )

**:: Relative Density,  $D_r$  (%) ::**

$$100 \cdot \sqrt{\frac{Q_{tn}}{k_{DR}}} \quad \text{(applicable only to SBT}_n\text{: 5, 6, 7 and 8 or } I_c < I_{c\_cutoff}\text{)}$$

**:: State Parameter,  $\psi$  ::**

$$\psi = 0.56 - 0.33 \cdot \log(Q_{tn,cs})$$

**:: Drained Friction Angle,  $\phi$  (°) ::**

$$\phi = \phi'_{cv} + 15.94 \cdot \log(Q_{tn,cs}) - 26.88$$

(applicable only to SBT<sub>n</sub>: 5, 6, 7 and 8 or  $I_c < I_{c\_cutoff}$ )

**:: 1-D constrained modulus,  $M$  (MPa) ::**

If  $I_c > 2.20$

$\alpha = 14$  for  $Q_{tn} > 14$

$\alpha = Q_{tn}$  for  $Q_{tn} \leq 14$

$$M_{CPT} = \alpha \cdot (q_t - \sigma_v)$$

If  $I_c \geq 2.20$

$$M_{CPT} = 0.03 \cdot (q_t - \sigma_v) \cdot 10^{0.55 \cdot I_c + 1.68}$$

**:: Small strain shear Modulus,  $G_0$  (MPa) ::**

$$G_0 = (q_t - \sigma_v) \cdot 0.0188 \cdot 10^{0.55 \cdot I_c + 1.68}$$

**:: Shear Wave Velocity,  $V_s$  (m/s) ::**

$$V_s = \left(\frac{G_0}{\rho}\right)^{0.50}$$

**:: Undrained peak shear strength,  $S_u$  (kPa) ::**

$$N_{kt} = 10.50 + 7 \cdot \log(F_r) \text{ or user defined}$$

$$S_u = \frac{(q_t - \sigma_v)}{N_{kt}}$$

(applicable only to SBT<sub>n</sub>: 1, 2, 3, 4 and 9 or  $I_c > I_{c\_cutoff}$ )

**:: Remolded undrained shear strength,  $S_u(\text{rem})$  (kPa) ::**

$$S_{u(\text{rem})} = f_s \quad \text{(applicable only to SBT}_n\text{: 1, 2, 3, 4 and 9 or } I_c > I_{c\_cutoff}\text{)}$$

**:: Overconsolidation Ratio, OCR ::**

$$k_{OCR} = \left[ \frac{Q_{tn}^{0.20}}{0.25 \cdot (10.50 + 7 \cdot \log(F_r))} \right]^{1.25} \text{ or user defined}$$

$$OCR = k_{OCR} \cdot Q_{tn}$$

(applicable only to SBT<sub>n</sub>: 1, 2, 3, 4 and 9 or  $I_c > I_{c\_cutoff}$ )

**:: In situ Stress Ratio,  $K_0$  ::**

$$K_0 = (1 - \sin \phi') \cdot OCR^{\sin \phi'}$$

(applicable only to SBT<sub>n</sub>: 1, 2, 3, 4 and 9 or  $I_c > I_{c\_cutoff}$ )

**:: Soil Sensitivity,  $S_t$  ::**

$$S_t = \frac{N_s}{F_r}$$

(applicable only to SBT<sub>n</sub>: 1, 2, 3, 4 and 9 or  $I_c > I_{c\_cutoff}$ )

**:: Peak Friction Angle,  $\phi'$  (°) ::**

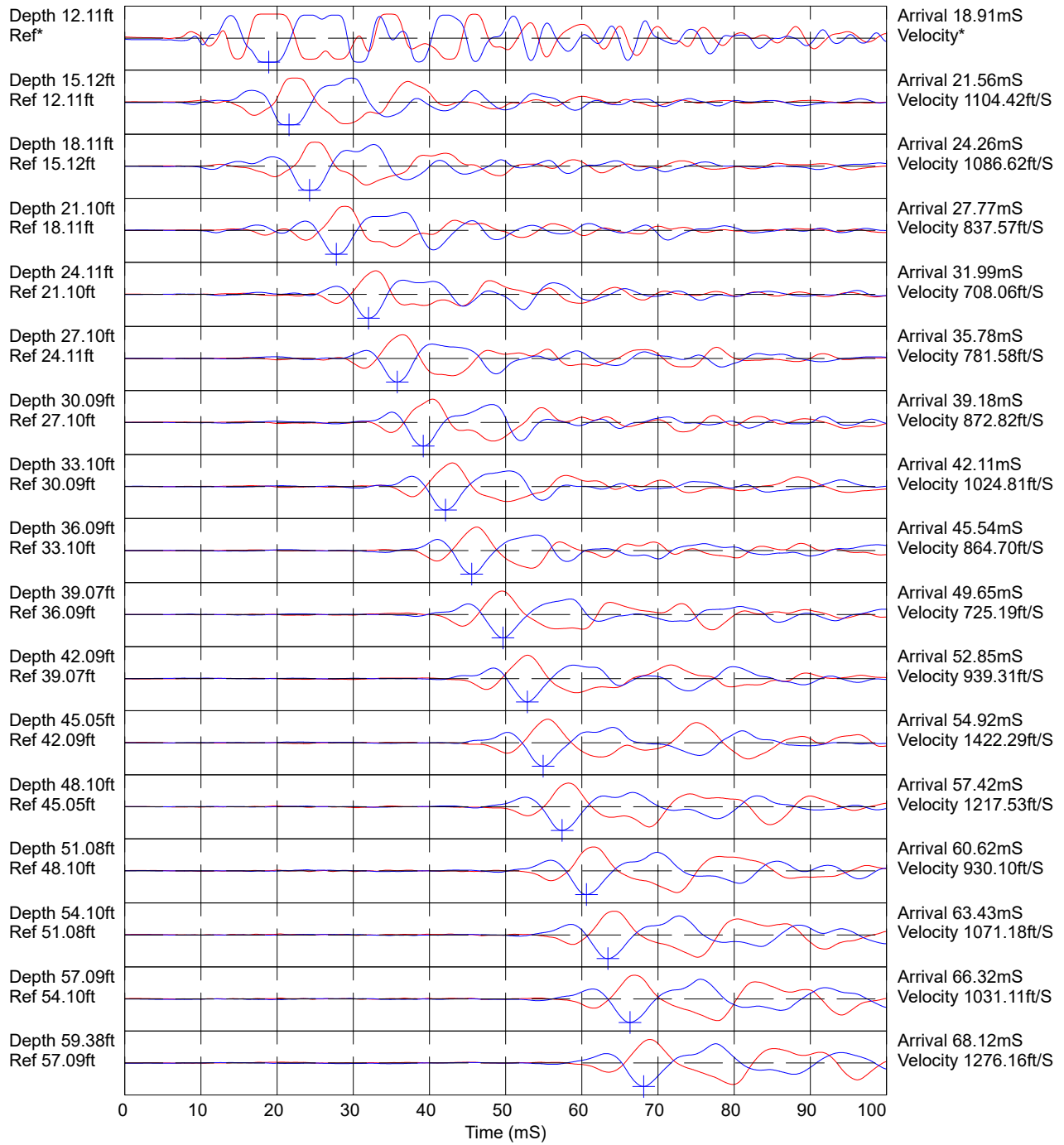
$$\phi' = 29.5^\circ \cdot B_q^{0.121} \cdot (0.256 + 0.336 \cdot B_q + \log Q_t)$$

(applicable for  $0.10 < B_q < 1.00$ )

**References**

- Robertson, P.K., Cabal K.L., Guide to Cone Penetration Testing for Geotechnical Engineering, Gregg Drilling & Testing, Inc., 5<sup>th</sup> Edition, November 2012
- Robertson, P.K., Interpretation of Cone Penetration Tests - a unified approach., Can. Geotech. J. 46(11): 1337–1355 (2009)
- N Barounis, J Philpot, Estimation of in-situ water content, void ratio, dry unit weight and porosity using CPT for saturated sands, Proc. 20th NZGS Geotechnical Symposium

### SEISMIC TEST SCPT-1

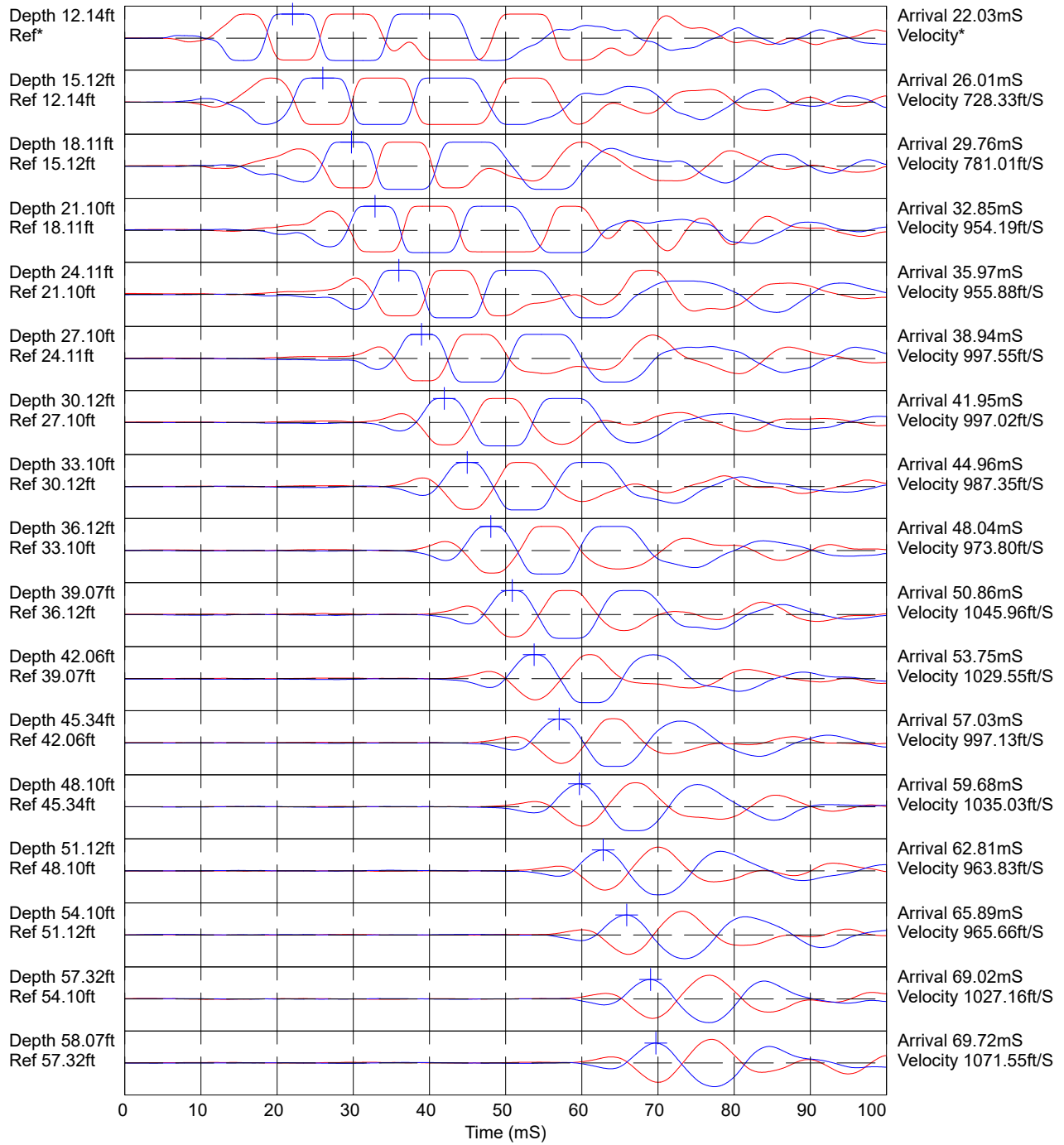


Hammer to Rod String Distance (ft): 3.28

\* = Not Determined

COMMENT:

### SEISMIC TEST SCPT-2

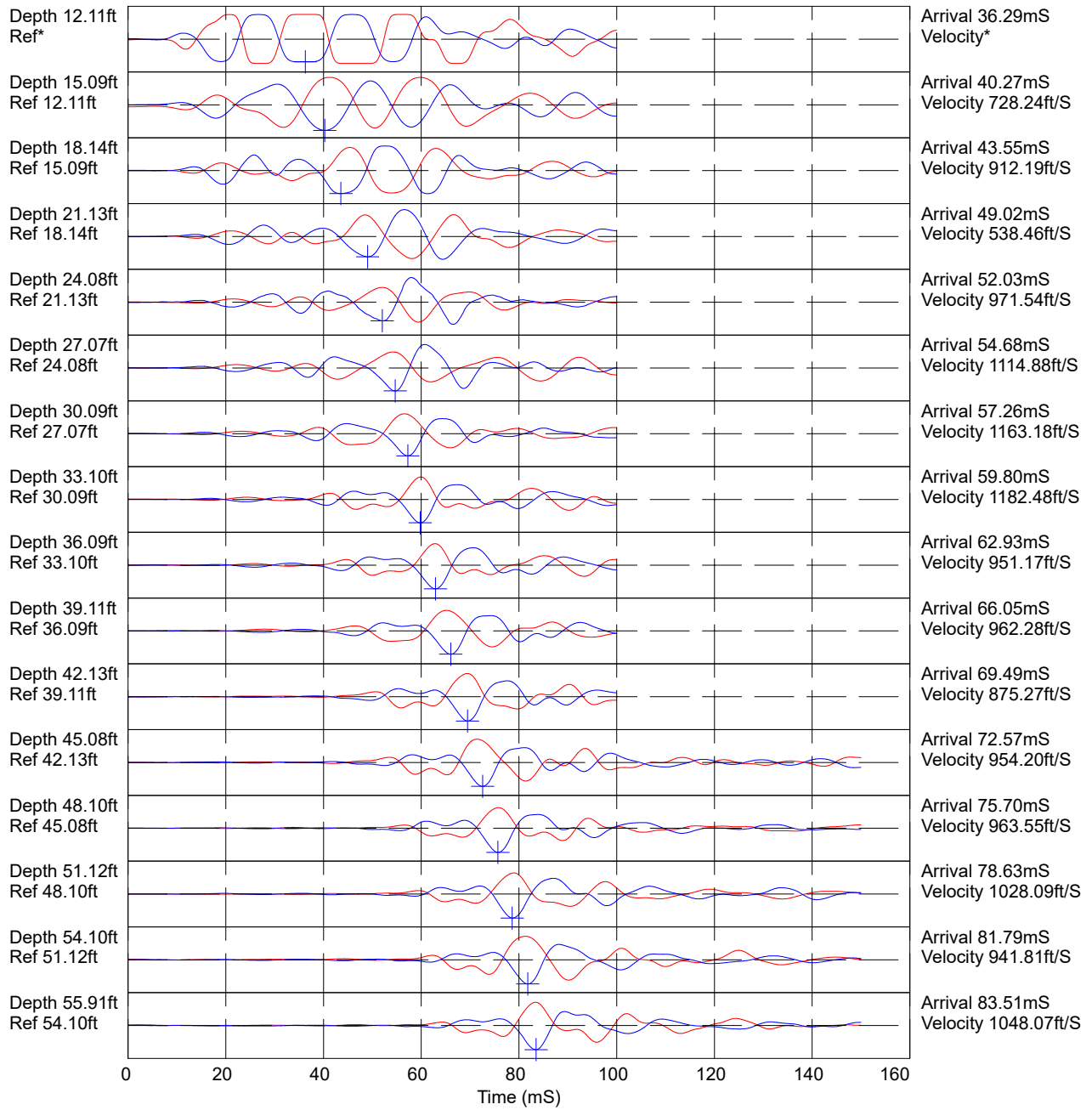


Hammer to Rod String Distance (ft): 3.28

\* = Not Determined

COMMENT:

### SEISMIC TEST SCPT-3

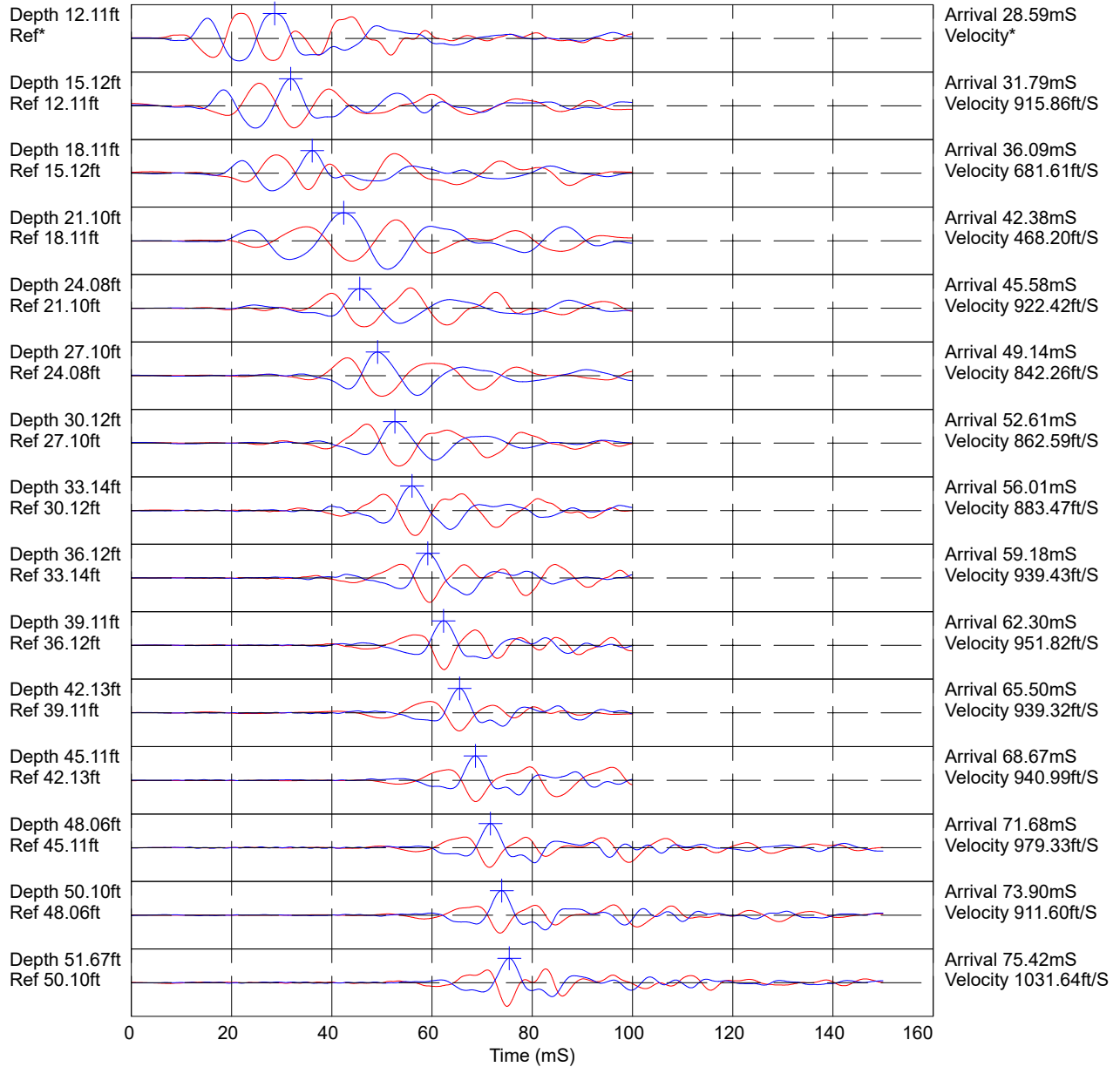


Hammer to Rod String Distance (ft): 3.28  
 \* = Not Determined

COMMENT:



### SEISMIC TEST SCPT-4

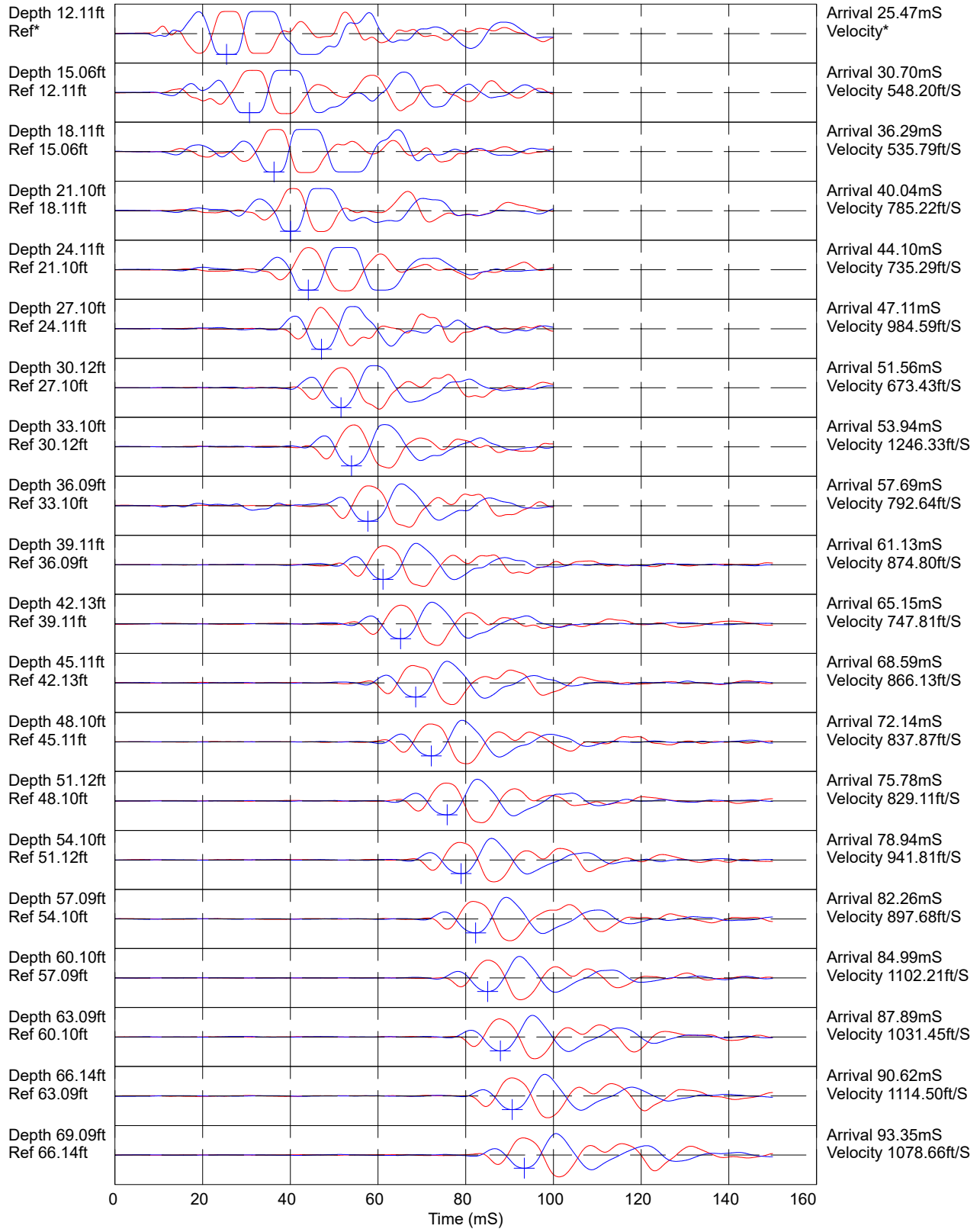


Hammer to Rod String Distance (ft): 3.28

\* = Not Determined

COMMENT:

### SEISMIC TEST SCPT-5

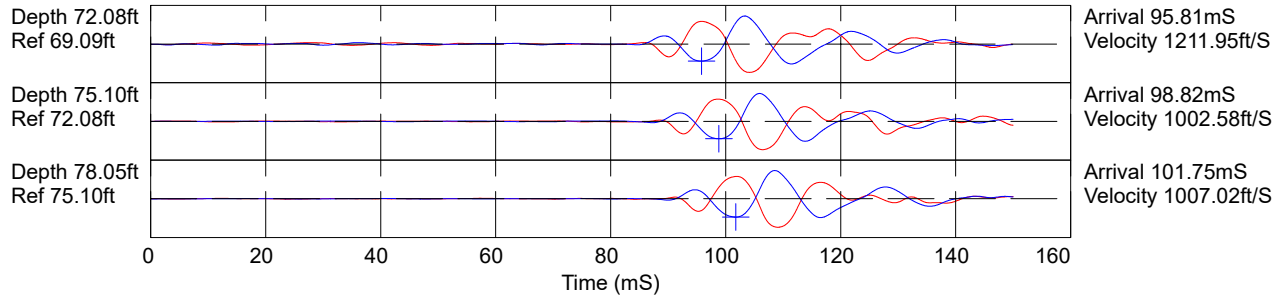


Hammer to Rod String Distance (ft): 3.28

\* = Not Determined

COMMENT:

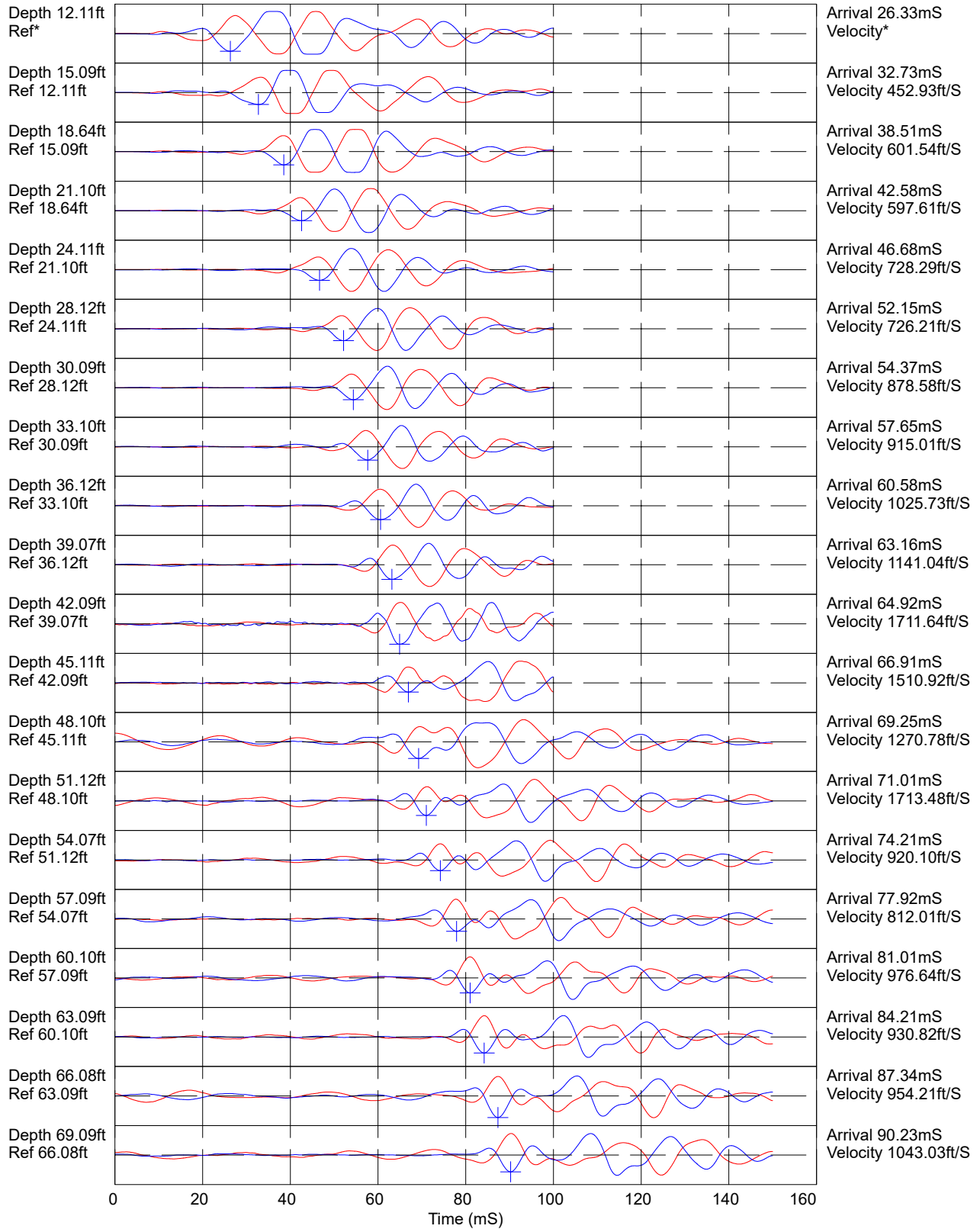
SEISMIC TEST SCPT-5, cont.



Hammer to Rod String Distance (ft): 3.28  
\* = Not Determined

COMMENT:

### SEISMIC TEST SCPT-6

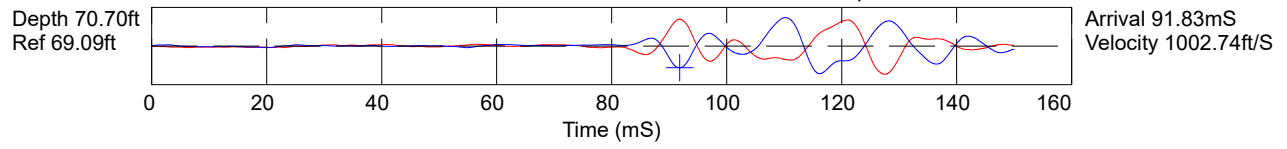


Hammer to Rod String Distance (ft): 3.28

\* = Not Determined

COMMENT:

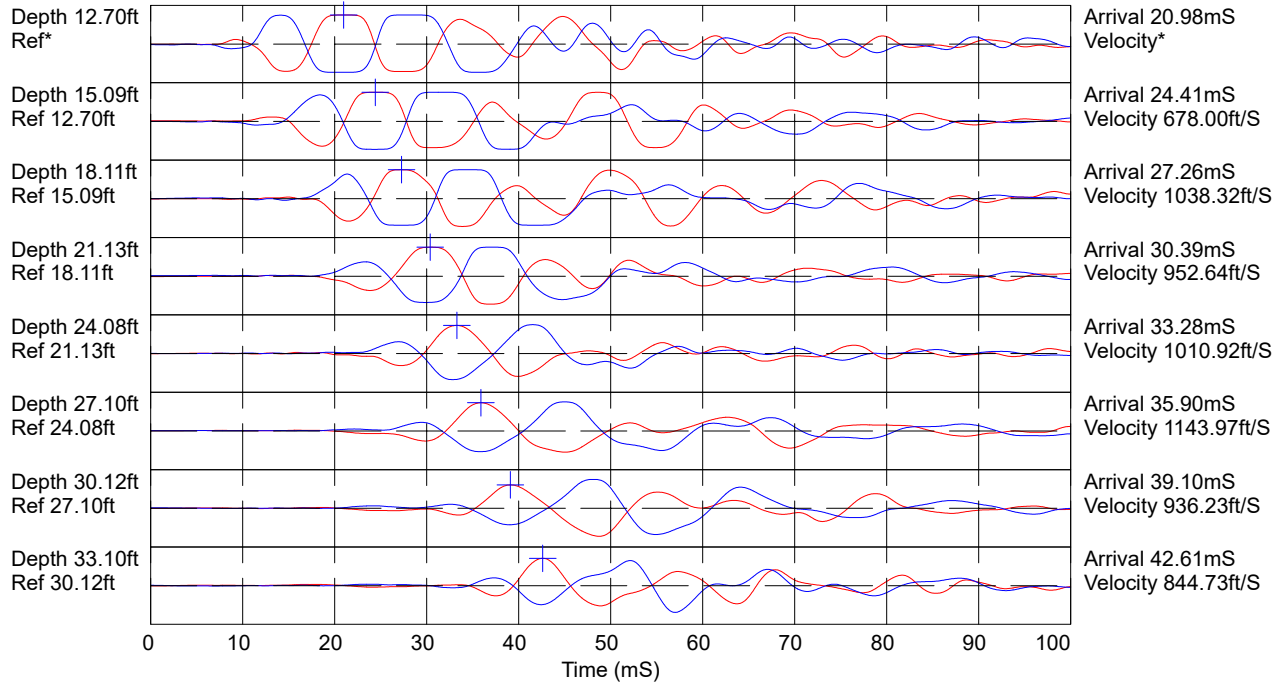
SEISMIC TEST SCPT-6, cont.



Hammer to Rod String Distance (ft): 3.28  
\* = Not Determined

COMMENT:

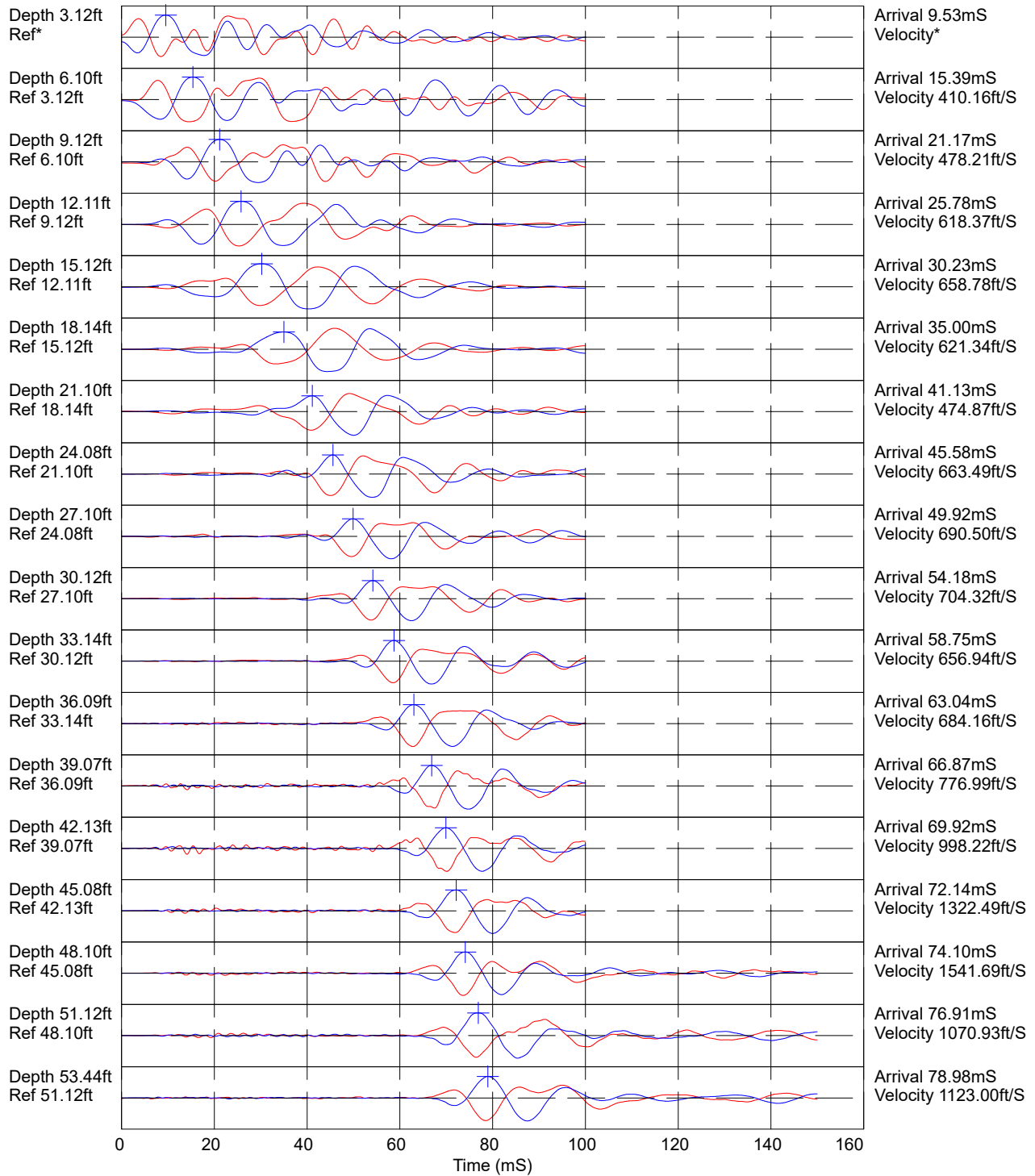
### SEISMIC TEST SCPT-7



Hammer to Rod String Distance (ft): 3.28  
 \* = Not Determined

COMMENT:

### SEISMIC TEST SCPT-6a

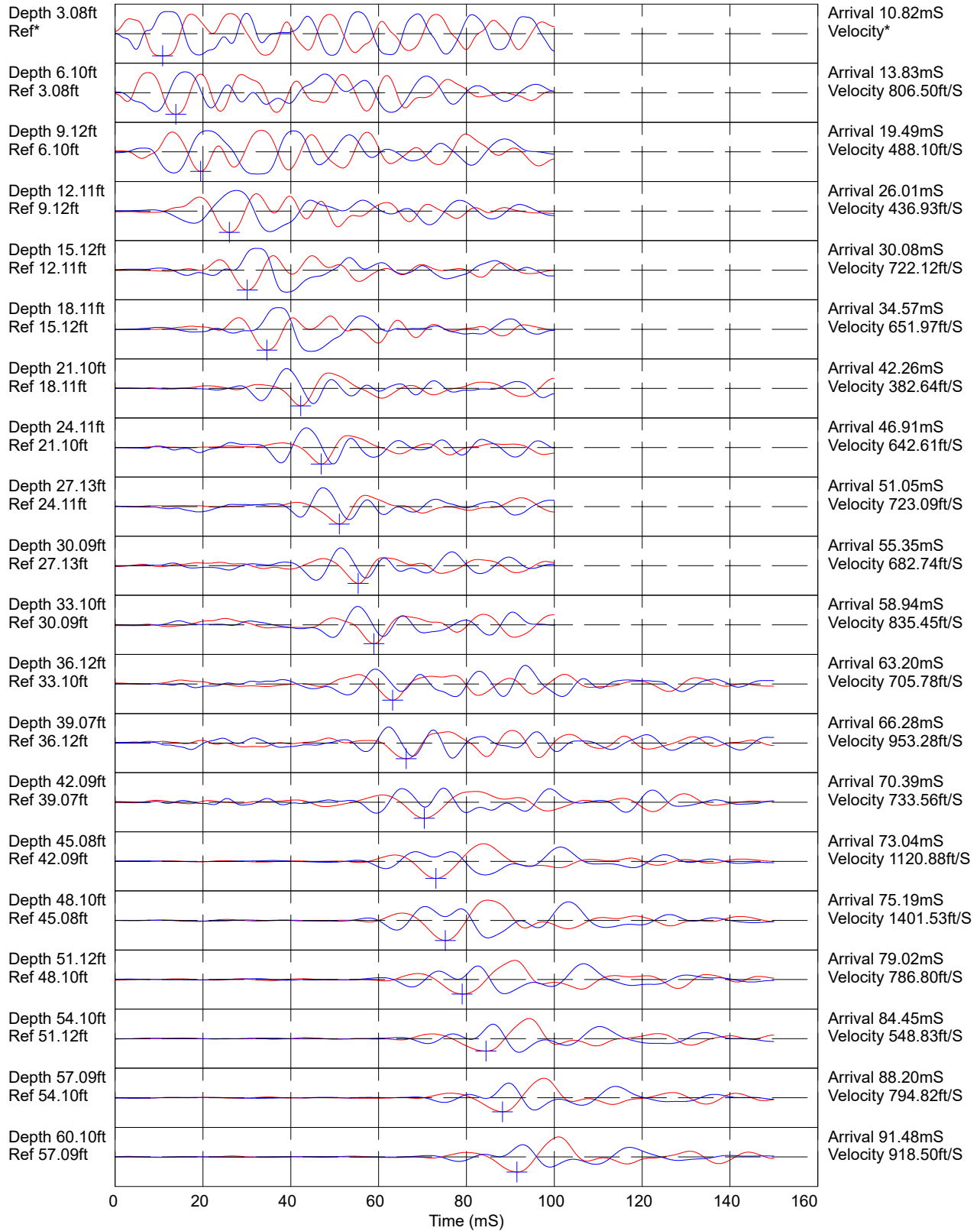


Hammer to Rod String Distance (ft): 3.28

\* = Not Determined

COMMENT:

### SEISMIC TEST SCPT-6b



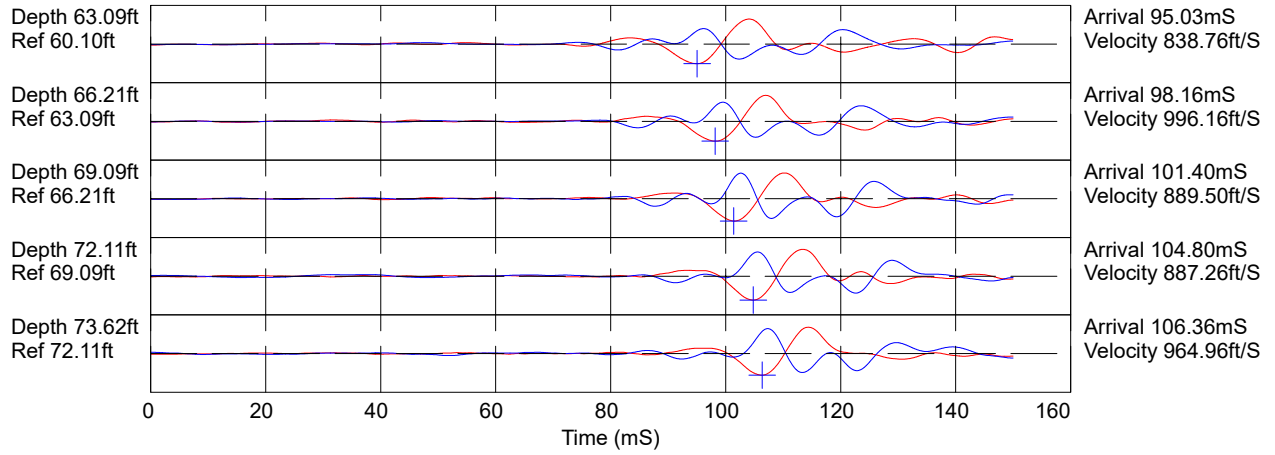
Hammer to Rod String Distance (ft): 3.28

\* = Not Determined

COMMENT:



SEISMIC TEST SCPT-6b, cont.

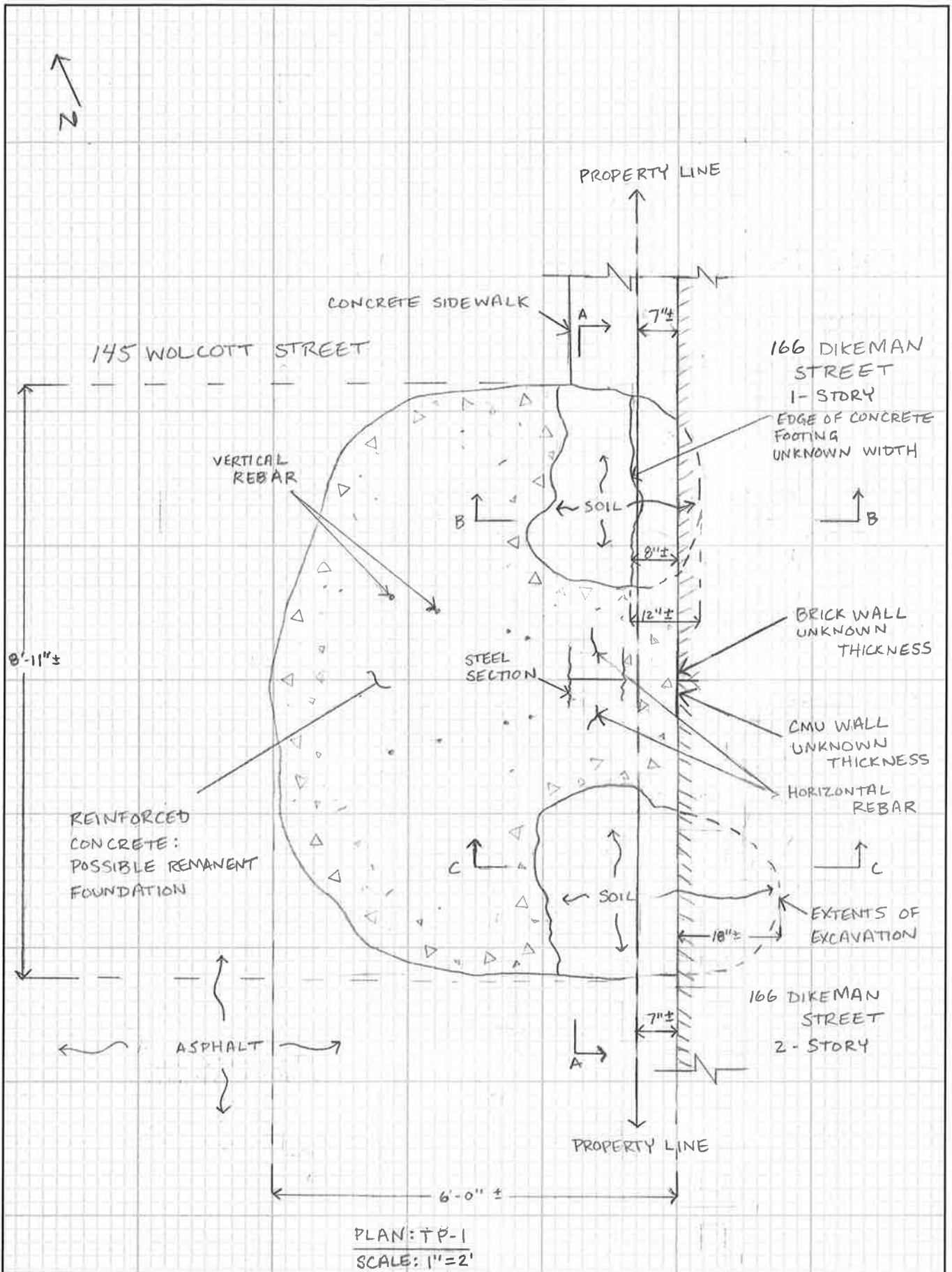


Hammer to Rod String Distance (ft): 3.28  
\* = Not Determined

COMMENT:

# APPENDIX C

(2024 TEST PIT FINDINGS)



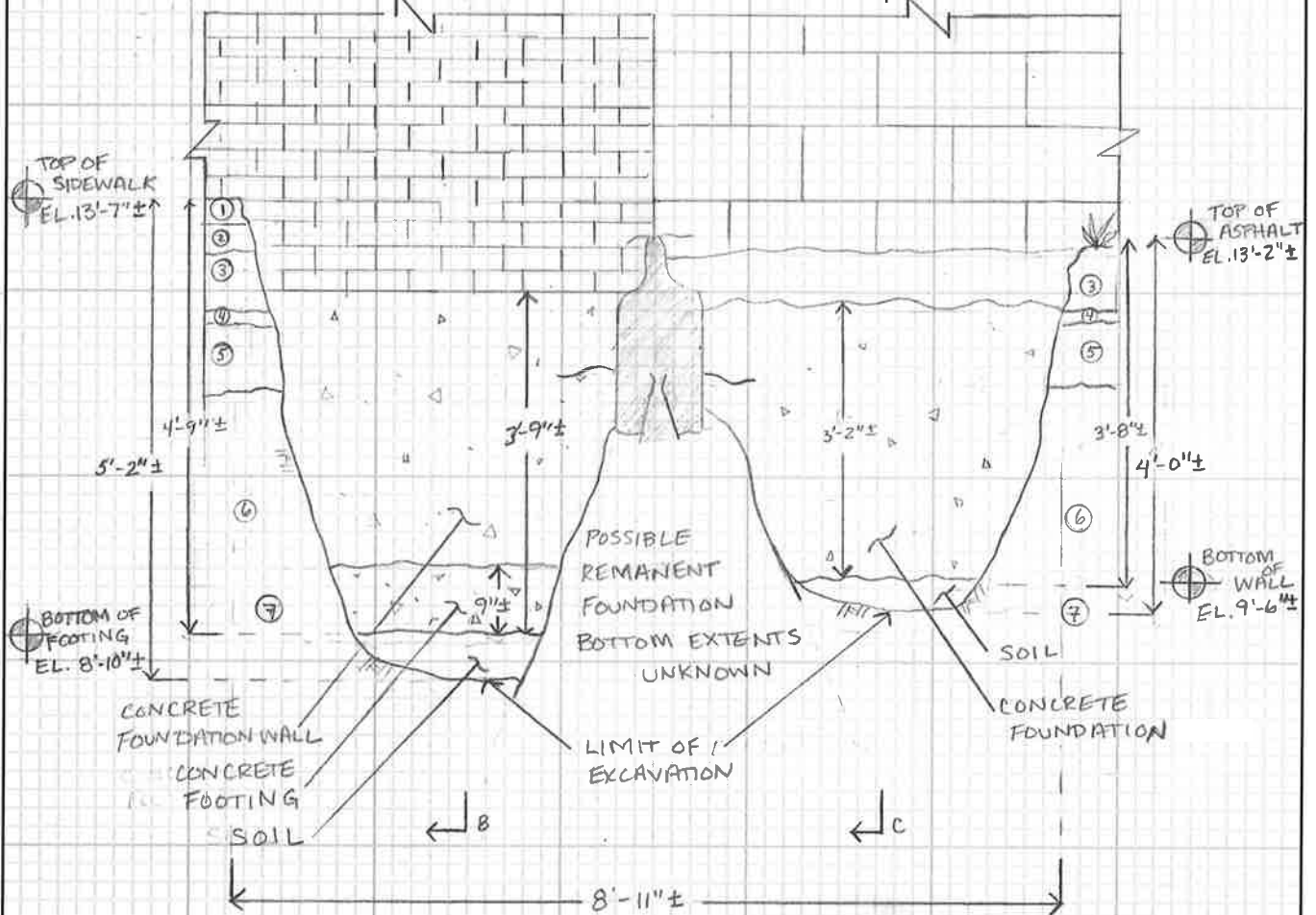
PLAN: TP-1  
 SCALE: 1"=2'

145 WOLCOTT ST	BY DGM DATE 2/22/2024	PROJ. NO. 170562204
TP-1	CKD. DATE	SHEET 1 OF

166 DIKEMAN STREET

1-STORY  
EXTERIOR BRICK WALL

2-STORY  
EXTERIOR CMU WALL



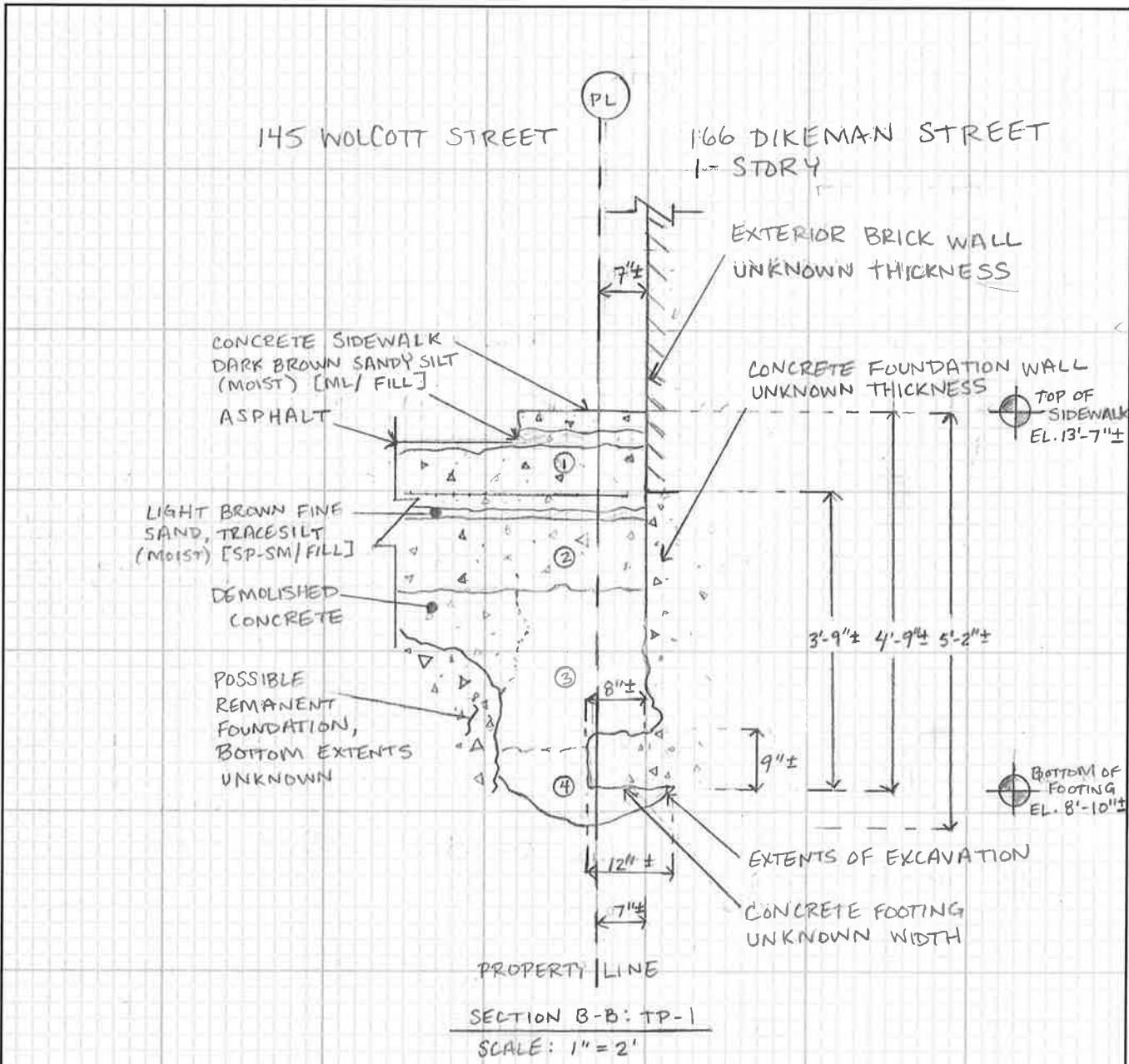
SECTION A-A: TP-1

SCALE: 1" = 2'

1. CONCRETE SIDEWALK
2. DARK BROWN SANDY SILT AND VEGETATION [ML/FILL]
3. CONCRETE WITH 3/4" HORIZONTAL REINFORCEMENT
4. LIGHT BROWN FINE SAND, TRACE SILT [SP-SM/FILL]
5. UNREINFORCED CONCRETE
6. BROWN COARSE TO FINE SAND, SOME SILT, COARSE TO FINE GRAVEL, BRICK FRAGMENTS, GLASS FRAGMENTS (MOIST) [SM/FILL]
7. BROWN COARSE TO FINE SAND, TRACE SILT, TRACE COARSE TO FINE GRAVEL (MOIST) [SP-SM/FILL]

NOTES:  
1. ELEVATIONS REFERENCED TO NAVD88 DATUM

145 WOLCOTT ST	BY DGM	DATE 2/22/2024	PROJ. NO. 170562204
TP-1	CKD.	DATE	SHEET 2 OF



SECTION B-B: TP-1  
SCALE: 1" = 2'

- 1. CONCRETE WITH 3/4" HORIZONTAL REINFORCEMENT
- 2. UNREINFORCED CONCRETE
- 3. BROWN COARSE TO FINE SAND, SOME SILT, COARSE TO FINE GRAVEL, BRICK FRAGMENTS, GLASS FRAGMENTS (MOIST) [SM/FILL]
- 4. BROWN COARSE TO FINE SAND, TRACE SILT, TRACE COARSE TO FINE GRAVEL (MOIST) [SP-SM/FILL]

NOTES:  
1. ELEVATIONS REFERENCED TO NAVD88 DATUM

145 WOLCOTT ST	BY DGM	DATE 2/22/2024	PROJ. NO. 170562204
TP-1	CKD.	DATE	SHEET 3 OF

145 WOLCOTT STREET

PL

166 DIKEMAN STREET  
2-STORY

STEEL SECTION  
VERTICAR REBAR

EXTERIOR  
CMU WALL  
UNTHICKNESS

CONCRETE FOUNDATION  
UNKNOWN THICKNESS

TOP OF ASPHALT  
EL. 13'-2"±

PARTIALLY  
DEMOLISHED  
CONCRETE

3'-8"± 4'-0"±

POSSIBLE  
REMANENT FOUNDATION  
BOTTOM EXTENTS UNKNOWN

BOTTOM OF WALL  
EL. 9'-6"±

EXTENTS OF EXCAVATION

PROPERTY LINE

SECTION C-C: TP-1

SCALE: 1" = 2'

1. BROWN COARSE TO FINE SAND, TRACE SILT, TRACE  
COARSE TO FINE GRAVEL (MOIST) [SP-SM/FILL]

NOTES:  
1. ELEVATIONS REFERENCED  
TO NAVD88 DATUM

145 WOLCOTT ST

BY DGM

DATE 2/22/2024

PROJ. NO. 170562204

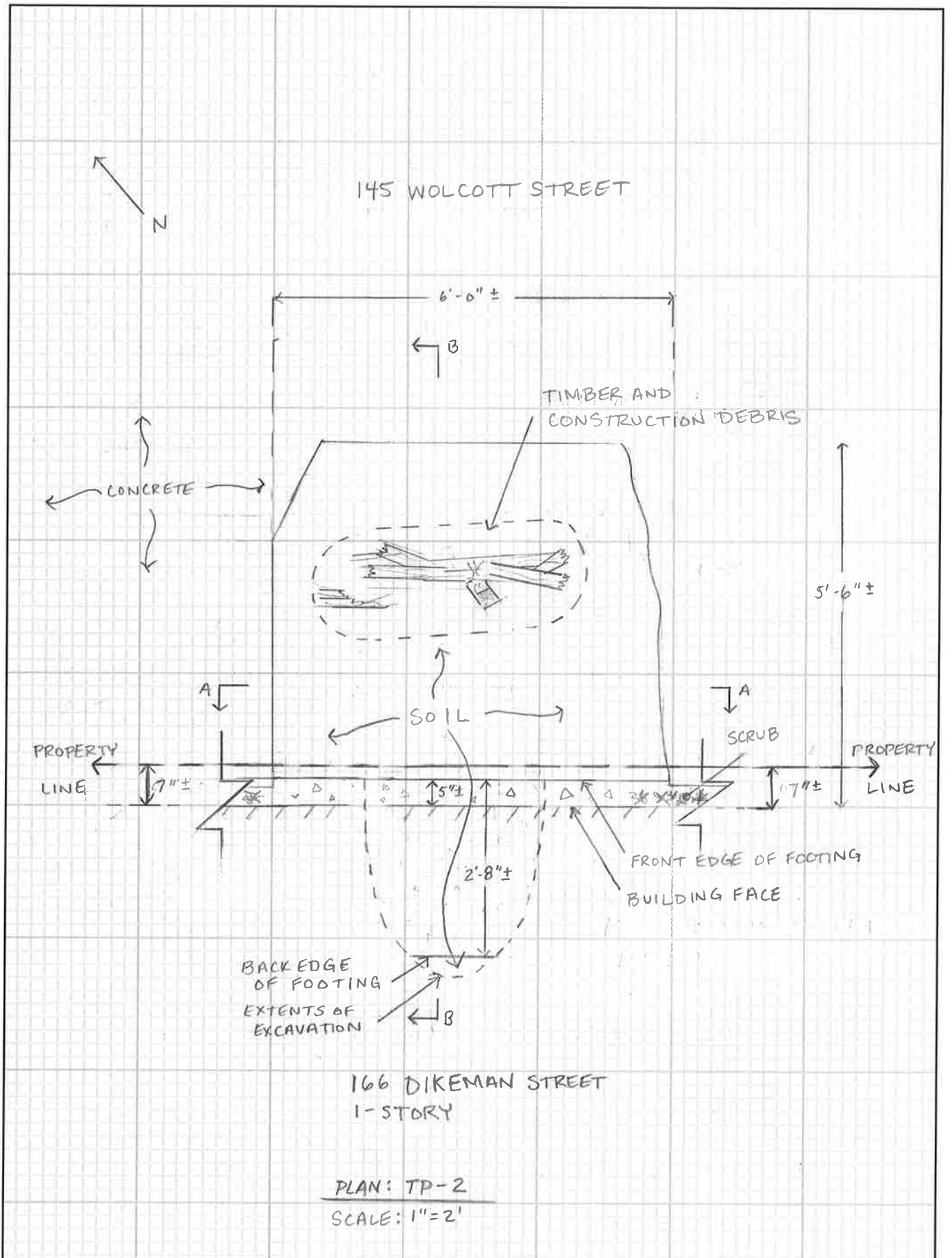
TP-1

CKD.

DATE

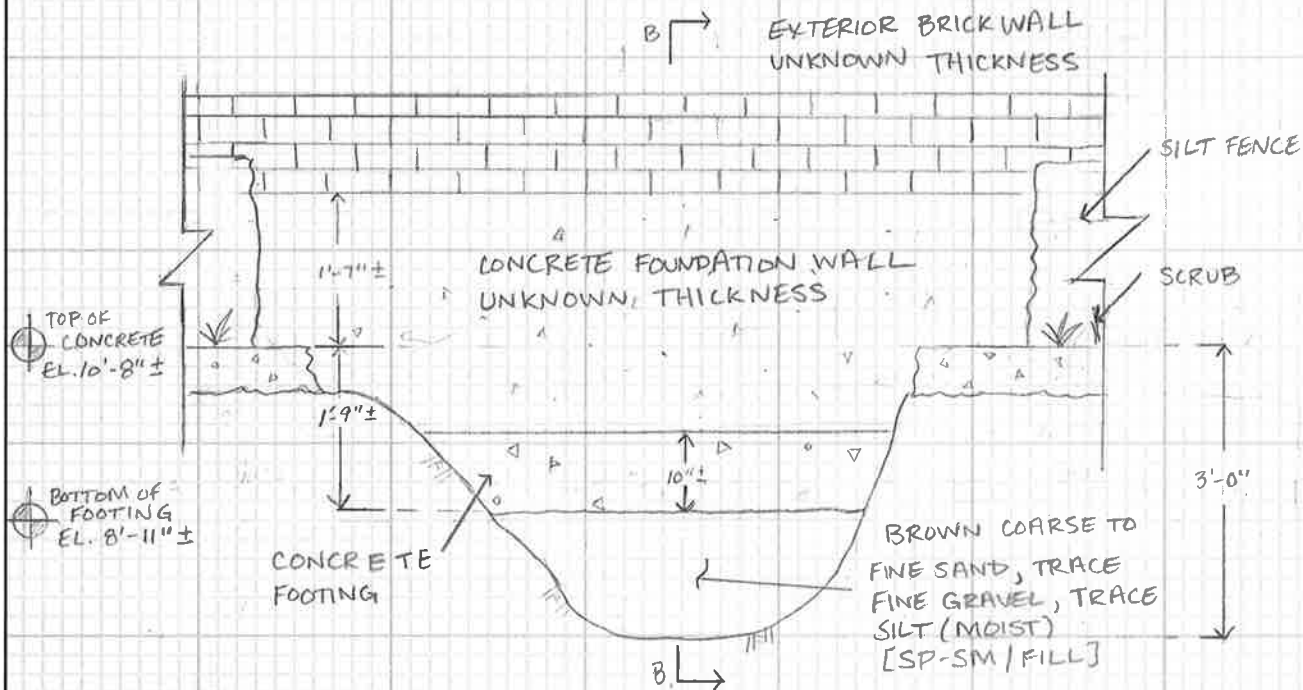
SHEET 4 OF

LANGAN



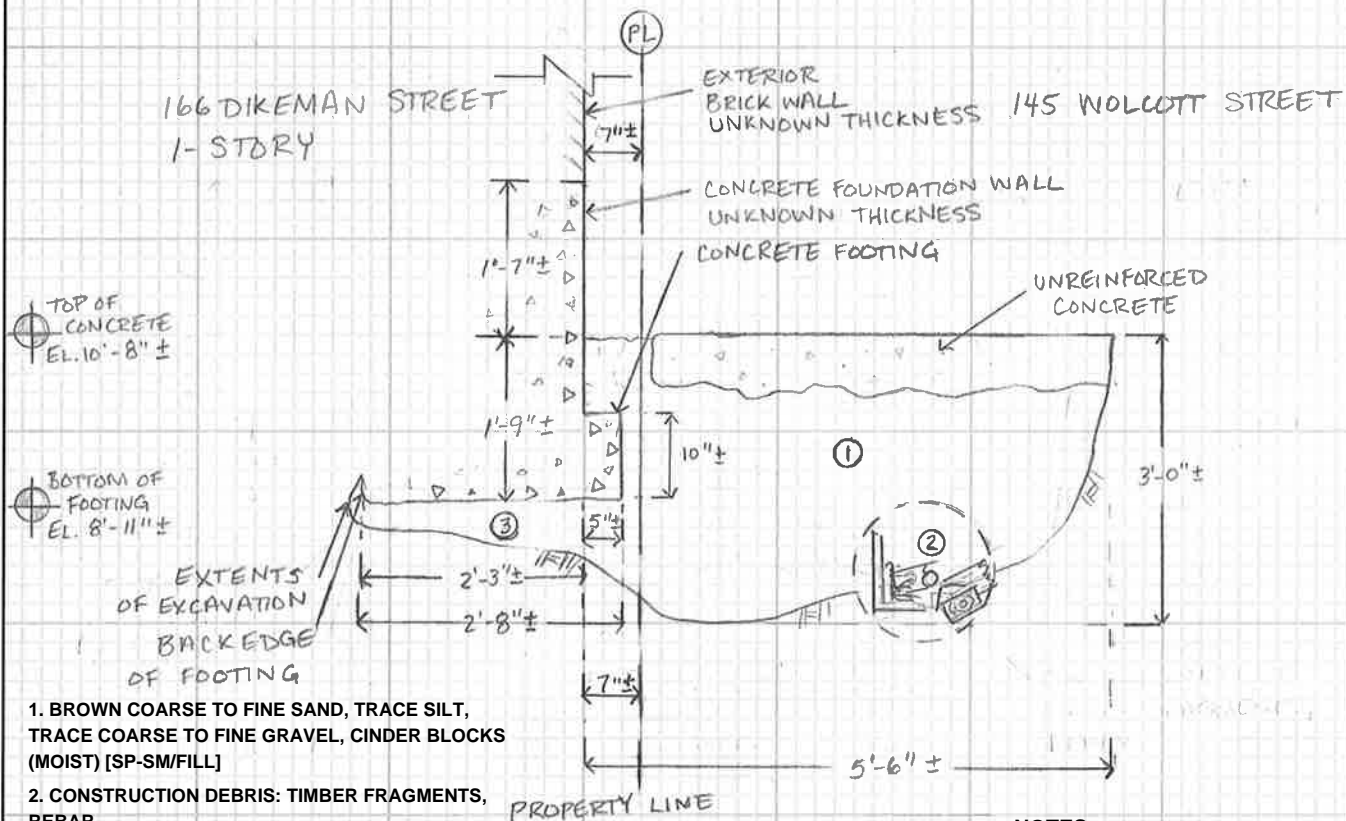
145 WOLCOTT ST	BY DGM	DATE 2/22/2024	PROJ. NO. 170562204
TP-2	CKD.	DATE	SHEET 5 OF

166 DIKEMAN STREET  
1-STORY



SECTION A-A: TP-2  
SCALE: 1" = 2'

NOTES:  
1. ELEVATIONS REFERENCED TO NAVD88 DATUM



SECTION B-B: TP-2  
SCALE: 1" = 2'

NOTES:  
1. ELEVATIONS REFERENCED TO NAVD88 DATUM

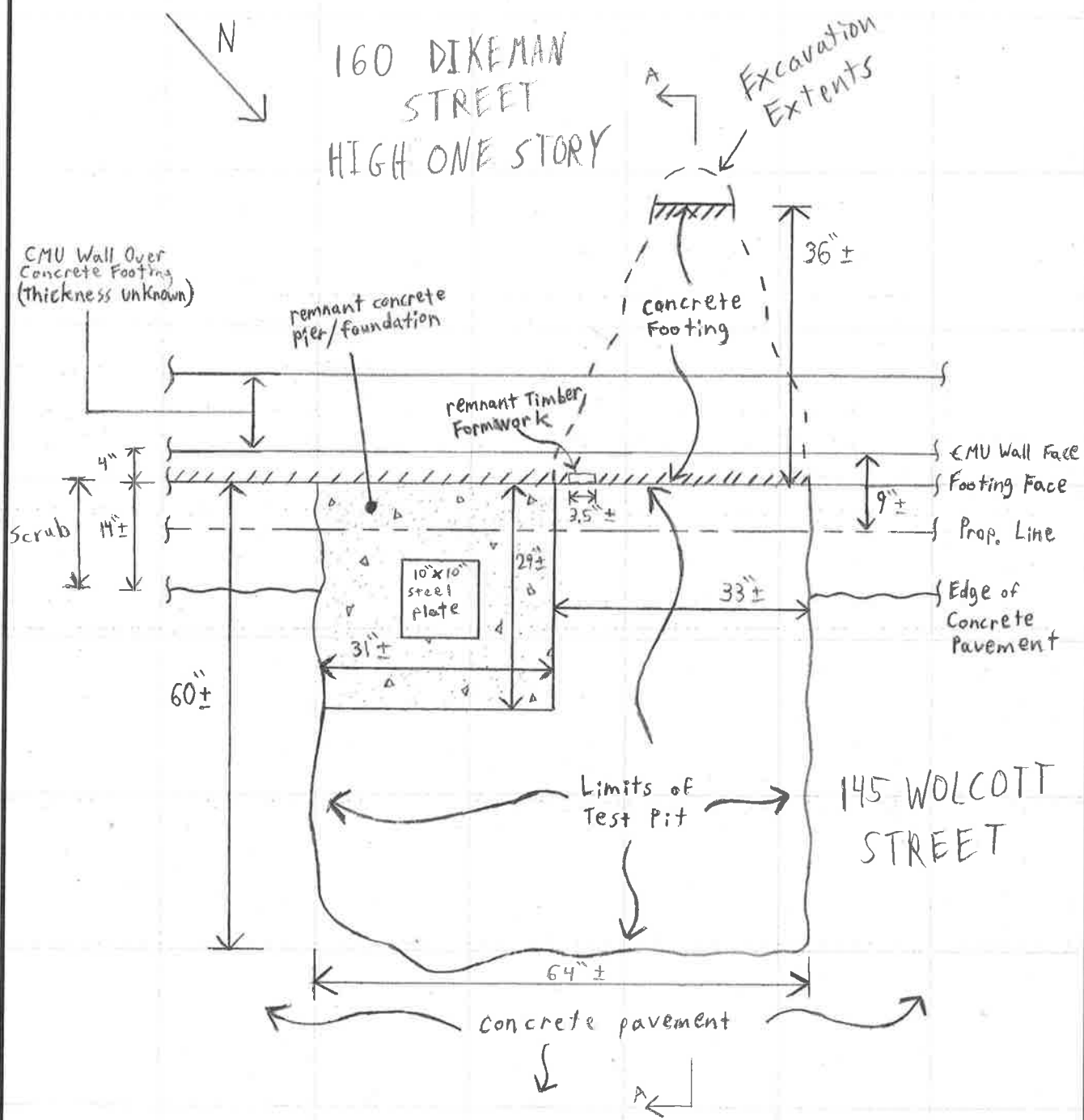
1. BROWN COARSE TO FINE SAND, TRACE SILT, TRACE COARSE TO FINE GRAVEL, CINDER BLOCKS (MOIST) [SP-SM/FILL]

2. CONSTRUCTION DEBRIS: TIMBER FRAGMENTS, REBAR

3. BROWN COARSE TO FINE SAND, TRACE FINE GRAVEL, TRACE SILT (MOIST) [SP-SM/FILL]

145 WOLCOTT ST	BY DGM	DATE 2/22/2024	PROJ. NO. 170562204
TP-2	CKD.	DATE	SHEET 6 OF





160 DIKEMAN STREET  
HIGH ONE STORY

Excavation Extents

CMU Wall Over Concrete Footing (thickness unknown)

remnant concrete pier/foundation

concrete footing

remnant timber formwork

Scrub  
4"  
14"±

CMU Wall Face  
Footing Face  
Prop. Line

10'x10' steel plate

Edge of Concrete Pavement

60"±

Limits of Test Pit

145 WOLCOTT STREET

64"±

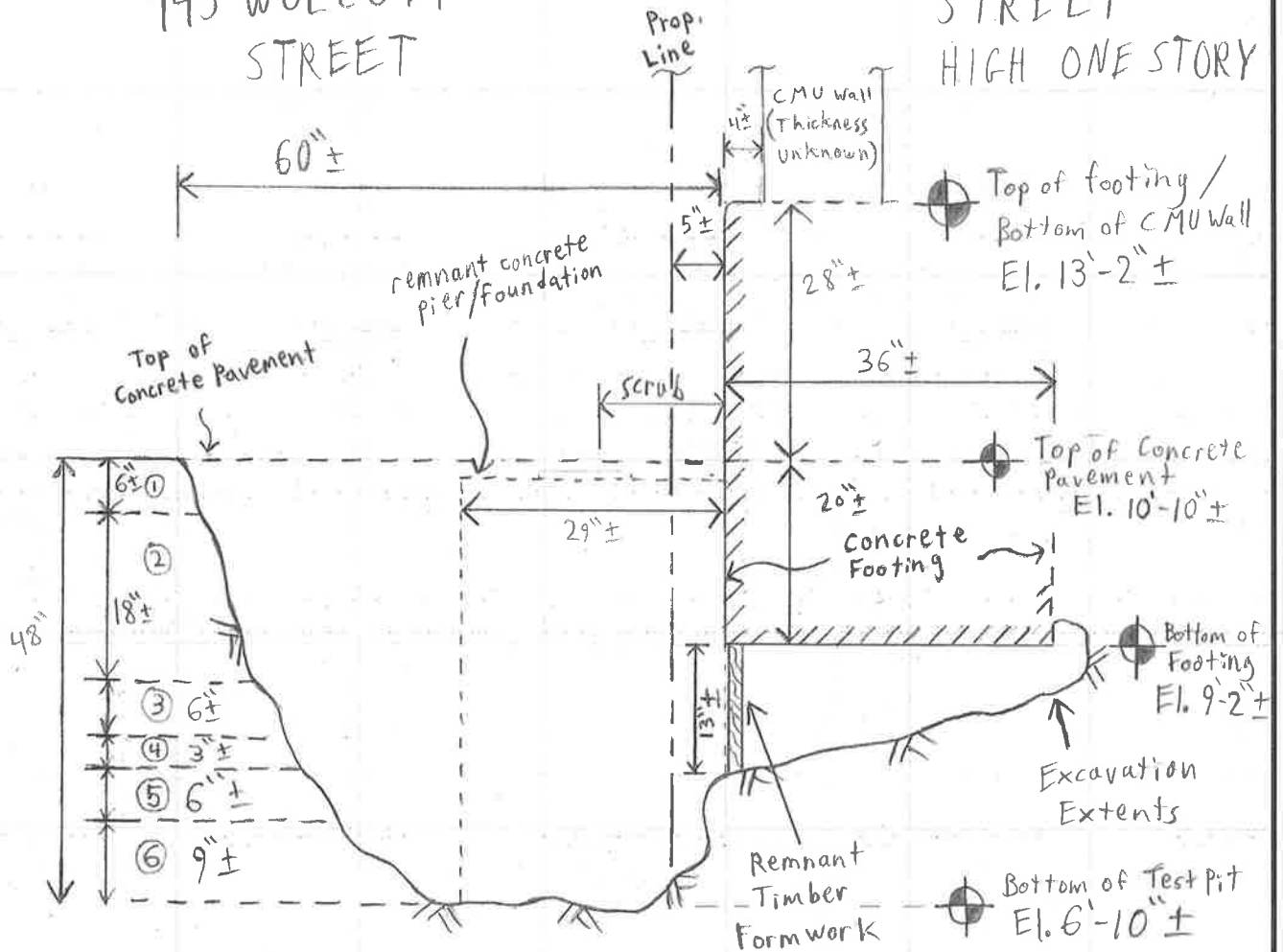
concrete pavement

PLAN: TP-3  
SCALE: 3" = 5'

145 WOLCOTT ST	BY MDG	DATE 2/23/2024	PROJ. NO. 170562204
TP-3	CKD.	DATE	SHEET 7 OF

145 WOLCOTT STREET

160 DIKEMAN STREET  
HIGH ONE STORY



SECTION A-A: TP-3

SCALE: 3" = 5'

1. 6" CONCRETE PAVEMENT
2. 18" BROWN MEDIUM TO FINE SAND, SOME SILT, WITH SLAG AND BRICK FRAGMENTS [FILL]
3. 6" BROWN MEDIUM TO FINE SAND, SOME SILT, BRICK FRAGMENTS [FILL]
4. 3" BLACK SILTY FINE SAND [SM]
5. 6" LIGHT BROWN FINE SAND, SOME SILT [SM]
6. DENSE MEDIUM TO FINE SAND, SOME SILT, BRICK FRAGMENTS, BURNT TIMBER PIECES, SHALE FRAGMENTS [FILL]

NOTES:

1. ELEVATIONS REFERENCED TO NAVD88 DATUM

145 WOLCOTT ST

TP-3

BY MDG

DATE 2/23/2024

PROJ. NO. 170562204

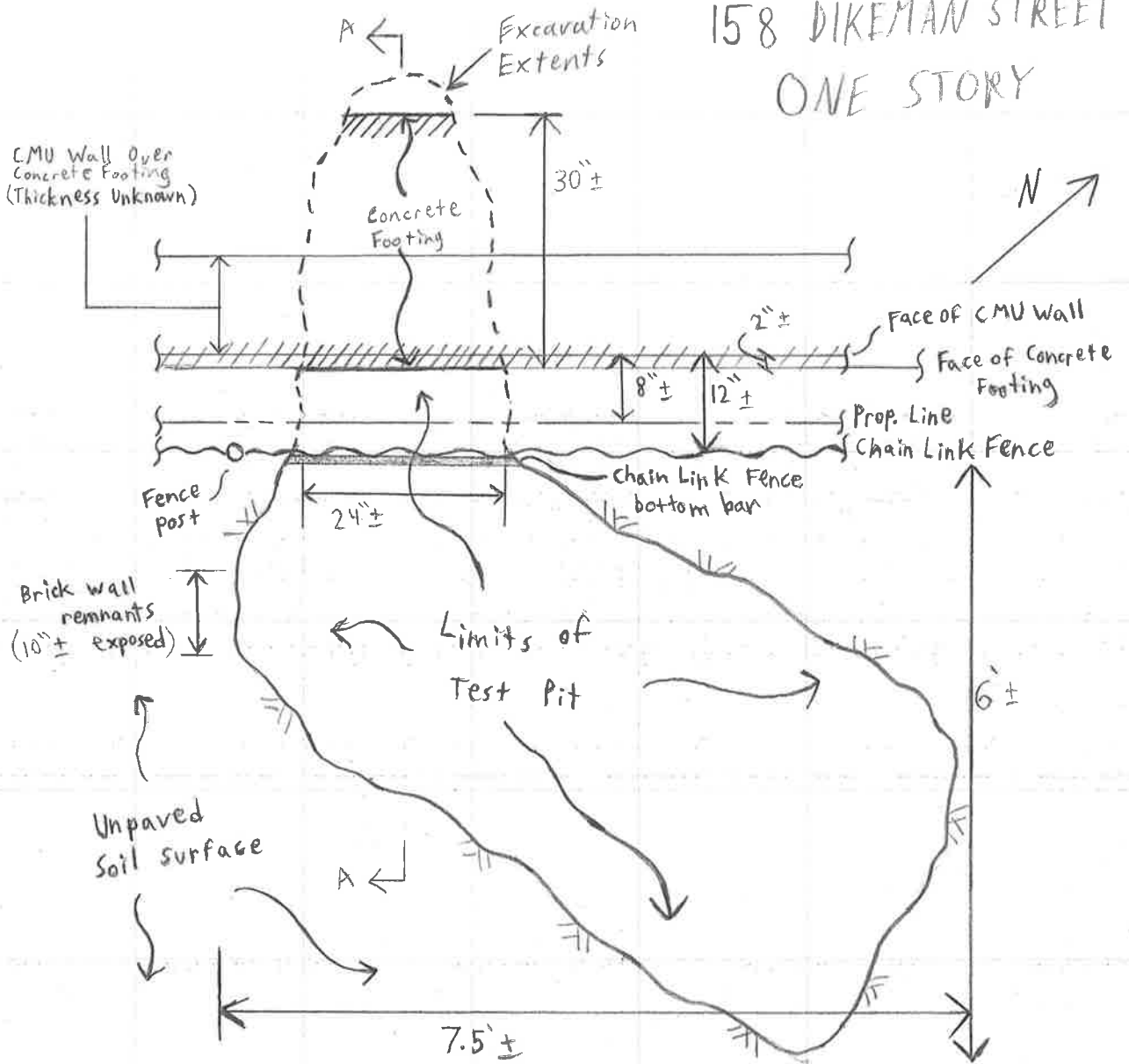
CKD,

DATE

SHEET 8 OF

**LANGAN**

158 DIKEMAN STREET  
ONE STORY



145 WOLCOTT STREET

PLAN: TP-4

SCALE: 3" = 5'

145 WOLCOTT ST

TP-4

BY MDG

DATE 2/23/2024

PROJ. NO. 170562204

CKD.

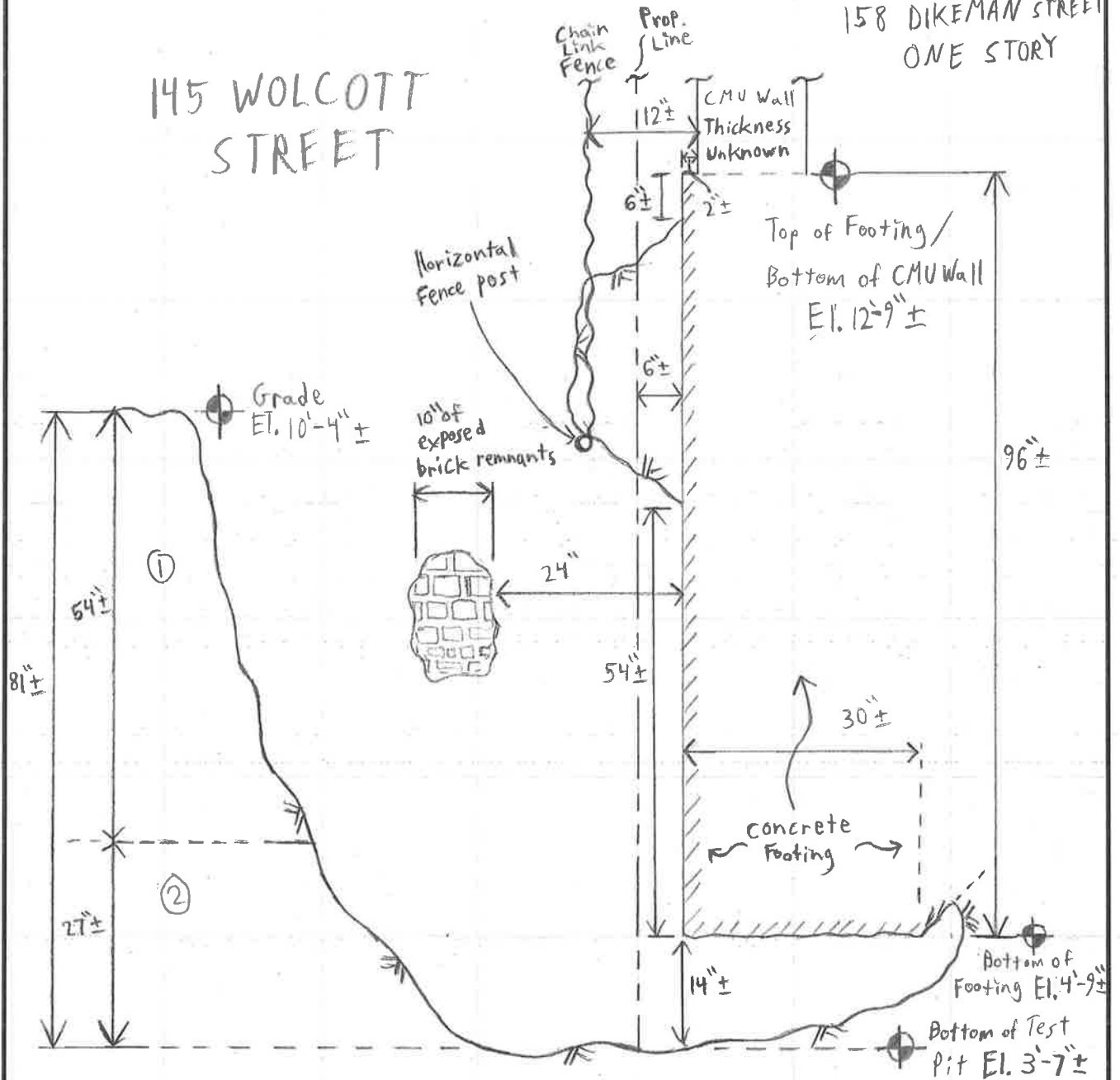
DATE

SHEET 9 OF

LANGAN

145 WOLCOTT STREET

158 DIKEMAN STREET  
ONE STORY

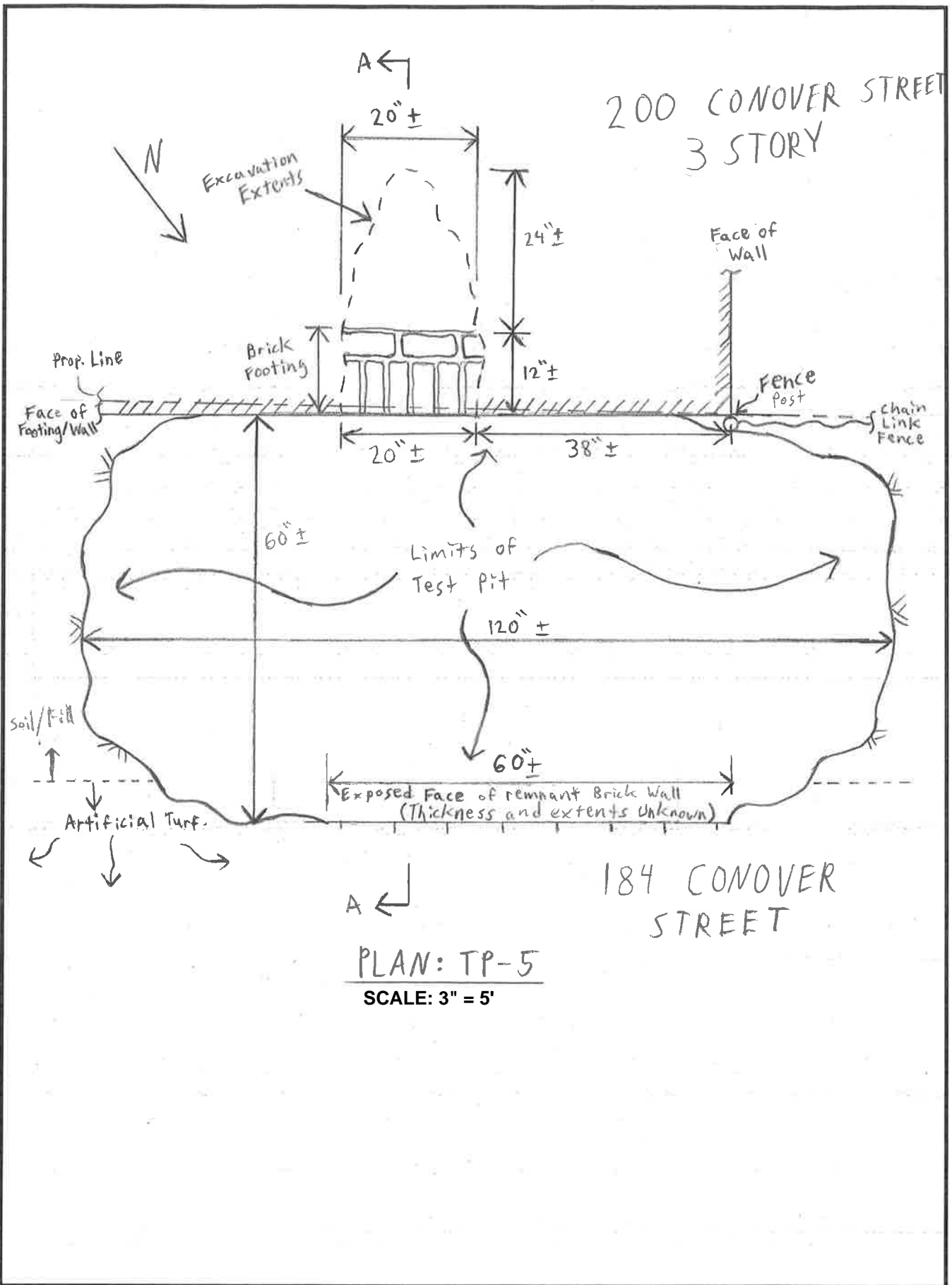


SECTION A-A: TP-4  
SCALE: 3" = 5'

1. 54" MEDIUM TO FINE SAND, SOME SILT, BRICK FRAGMENTS AND MISC. FILL MATERIAL [FILL]
2. 27" BROWN MEDIUM TO FINE SAND, SOME SILT [SM]

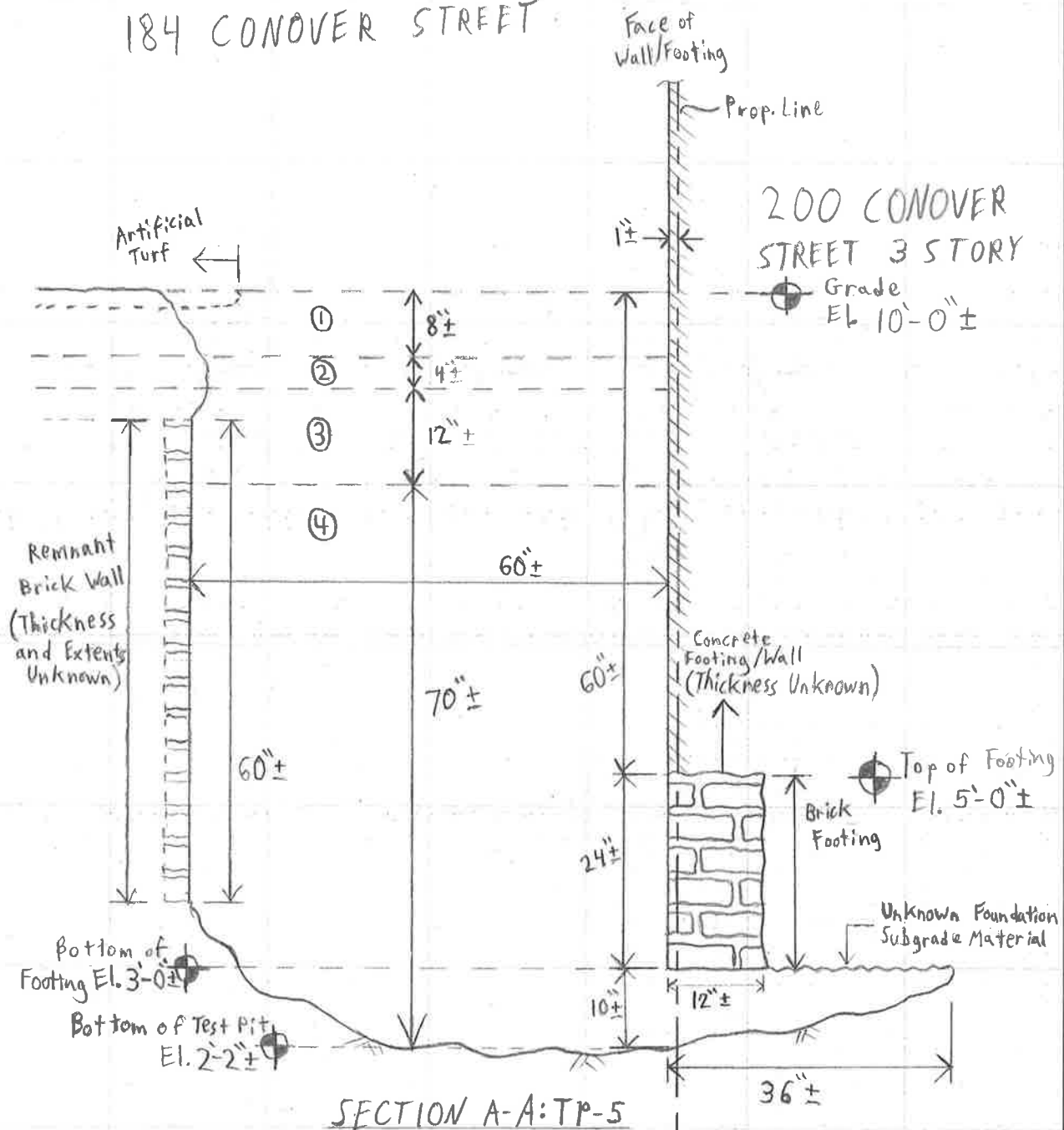
NOTES:  
1. ELEVATIONS REFERENCED TO NAVD88 DATUM

145 WOLCOTT ST	BY MDG	DATE 2/23/2024	PROJ. NO. 170562204
TP-4	CKD.	DATE	SHEET 10 OF



145 WOLCOTT ST	BY MDG	DATE 2/26/2024	PROJ. NO. 170562204
TP-5	CKD.	DATE	SHEET 11 OF

# 184 CONOVER STREET



SECTION A-A: TP-5

SCALE: 3" = 5'

1. 8" DARK BROWN TOP SOIL, MEDIUM TO FINE SAND, SOME SILT, TRACE FINE GRAVEL [FILL]
2. 4" REMNANT ASPHALT/CONCRETE [FILL]
3. 12" COARSE TO FINE GRAVEL, SOME SAND, BRICK FRAGMENTS AND MISC. FILL MATERIAL [FILL]
4. 70" BROWN MEDIUM TO FINE SAND, SOME SILT, BRICK FRAGMENTS [FILL]

**NOTES:**  
1. ELEVATIONS REFERENCED TO NAVD88 DATUM

145 WOLCOTT ST	BY MDG	DATE 2/26/2024	PROJ. NO. 170562204
TP-5	CKD.	DATE	SHEET 12 OF



**TEST PIT TP-1 PHOTOS:**



**Photo 1:** General view of test pit TP-1, 166 Dikeman Street (facing southeast).



**Photo 2:** View of footing under 1-story portion of building in test pit TP-1 (facing east).



**TEST PIT TP-1 PHOTOS, CONTINUED:**



**Photo 3:** View of footing bottom under 1-story portion of building in test pit TP-1 (facing southeast).



**Photo 4:** View of footing under 2-story portion of building in test pit TP-1 (facing south).



**TEST PIT TP-1 PHOTOS, CONTINUED:**



**Photo 5:** View of footing bottom under 2-story portion of building in test pit TP-1 (facing southeast).



**Photo 6:** Backfilled and patched test pit TP-1 (facing southeast).



**TEST PIT TP-2 PHOTOS:**



**Photo 7:** General view of test pit TP-2, 166 Dikeman Street (facing southwest).



**Photo 8:** View of footing in test pit TP-2 (facing southwest).



**TEST PIT TP-2 PHOTOS, CONTINUED:**



**Photo 9:** View of footing bottom in test pit TP-2 (facing southwest).



**Photo 10:** Backfilled and patched test pit TP-2 (facing southwest).



**TEST PIT TP-3 PHOTOS:**



**Photo 11:** General view of test pit TP-3, 160 Dikeman Street (facing southwest).



**Photo 12:** View of footing in test pit TP-3 (facing southwest).



**TEST PIT TP-3 PHOTOS, CONTINUED:**



**Photo 13:** View of footing bottom in test pit TP-3 (facing southwest).



**Photo 14:** Backfilled and patched test pit TP-3 (facing northwest).



**TEST PIT TP-4 PHOTOS:**



**Photo 15:** General view of test pit TP-4, 158 Dikeman Street (facing northwest).



**Photo 16:** View of footing in test pit TP-4 (facing northwest).



**TEST PIT TP-4 PHOTOS, CONTINUED:**



**Photo 17:** View of footing bottom in test pit TP-4 (facing northwest).



**Photo 18:** View of footing bottom in test pit TP-4 (facing northwest).

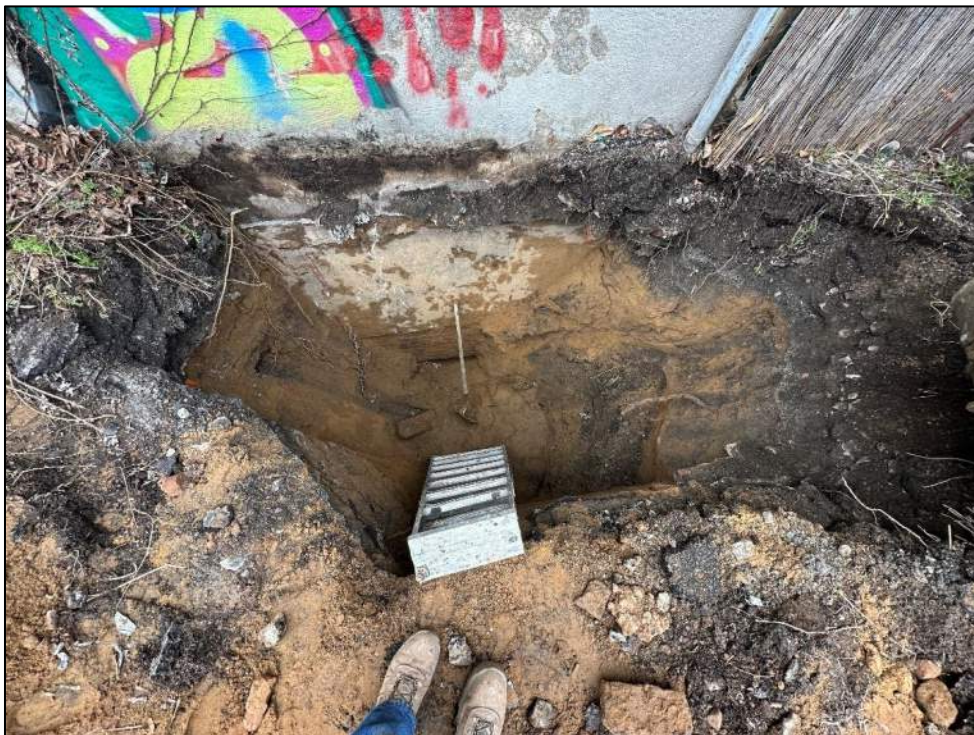


**TEST PIT TP-4 PHOTOS, CONTINUED:**



**Photo 19:** Backfilled test pit TP-4 (facing southwest).

**TEST PIT TP-5 PHOTOS:**



**Photo 20:** General view of test pit TP-5, 198 Conover Street (facing southwest).



**TEST PIT TP-5 PHOTOS, CONTINUED:**

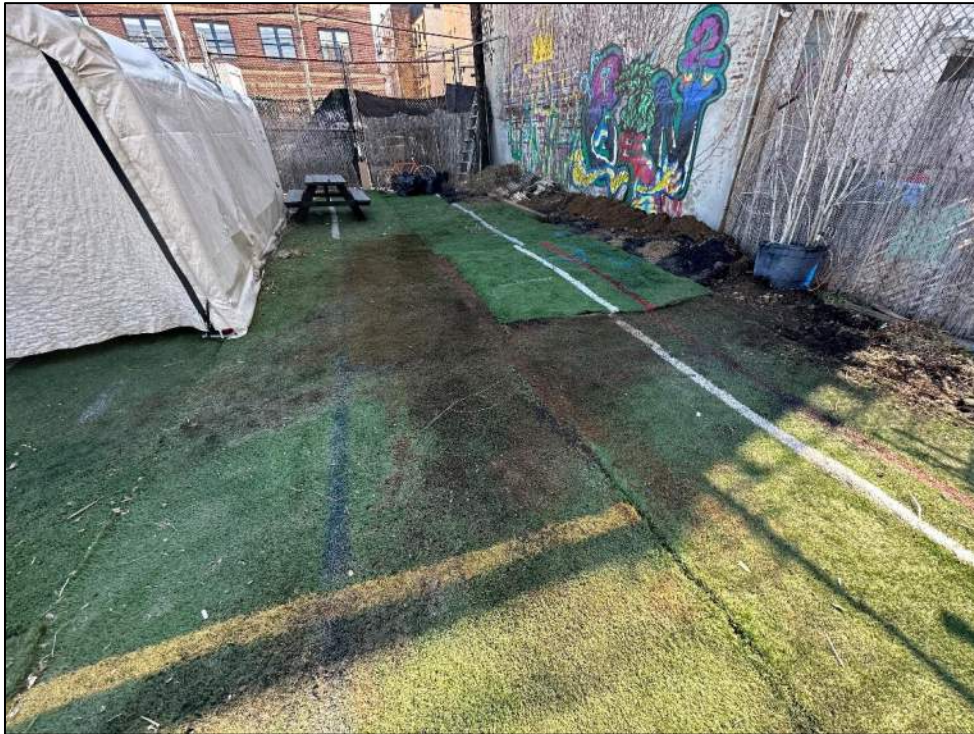


**Photo 21:** View of footing in test pit TP-5 (facing southwest).



**Photo 22:** View of footing bottom in test pit TP-5 (facing southwest).

**TEST PIT TP-5 PHOTOS, CONTINUED:**



**Photo 23:** Backfilled and patched test pit TP-5 (facing southeast).

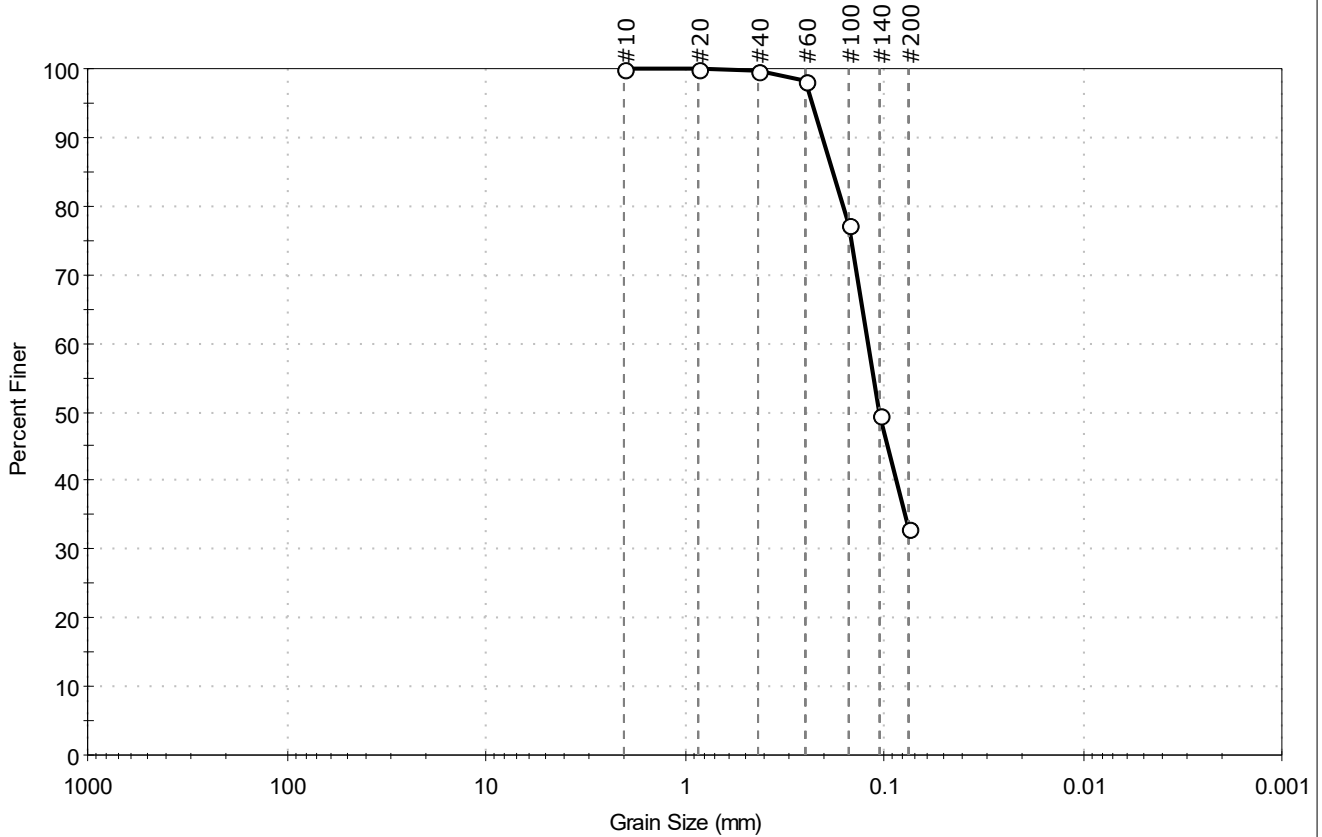
# APPENDIX D

(2024 LABORATORY TESTING RESULTS)



Client: Langan Engineering	Project No: GTX-318694
Project: 145 Wolcott Street	
Location: Brooklyn, NY	
Boring ID: LB-10	Sample Type: Unspecified
Sample ID: S-16	Tested By: ckg
Depth: 50-52	Test Date: 03/03/24
	Checked By: ank
	Test Id: 760584
Test Comment: ---	
Visual Description: Moist, brown silty sand	
Sample Comment: ---	

## Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	66.8	33.2

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#10	2.00	100		
#20	0.85	100		
#40	0.42	100		
#60	0.25	98		
#100	0.15	77		
#140	0.11	50		
#200	0.075	33		

<u>Coefficients</u>	
D <sub>85</sub> = 0.1807 mm	D <sub>30</sub> = N/A
D <sub>60</sub> = 0.1207 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.1065 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

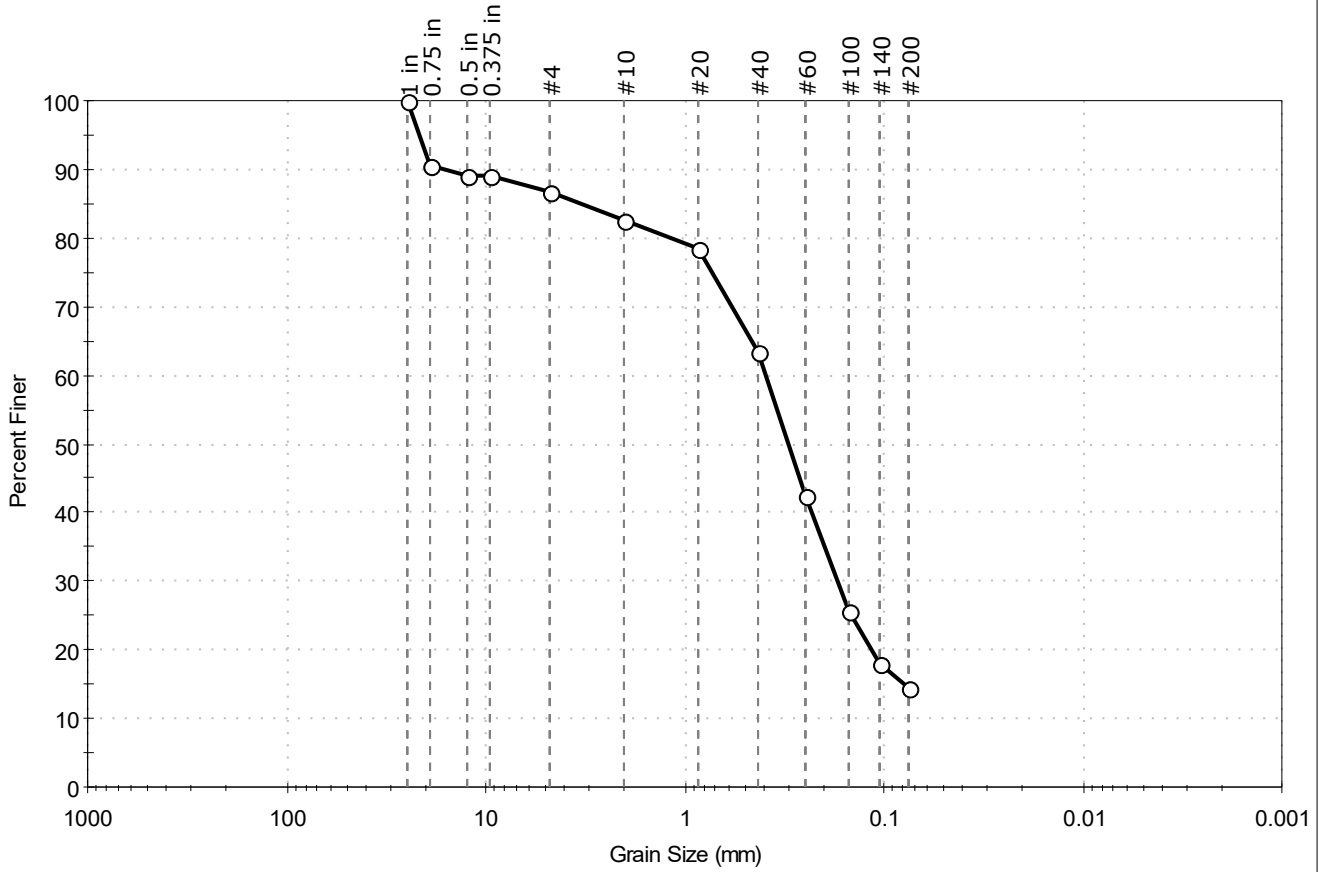
<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---





Client: Langan Engineering	Project No: GTX-318694
Project: 145 Wolcott Street	
Location: Brooklyn, NY	
Boring ID: LB-11	Sample Type: Unspecified
Sample ID: S-8	Tested By: ckg
Depth: 15-17	Test Date: 03/03/24
	Checked By: ank
	Test Id: 760581
Test Comment: ---	
Visual Description: Moist, very dark grayish brown silty sand	
Sample Comment: ---	

## Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	13.2	72.3	14.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	91		
0.5 in	12.50	89		
0.375 in	9.50	89		
#4	4.75	87		
#10	2.00	83		
#20	0.85	78		
#40	0.42	63		
#60	0.25	43		
#100	0.15	26		
#140	0.11	18		
#200	0.075	14		

<u>Coefficients</u>	
D <sub>85</sub> = 3.2824 mm	D <sub>30</sub> = 0.1708 mm
D <sub>60</sub> = 0.3899 mm	D <sub>15</sub> = 0.0788 mm
D <sub>50</sub> = 0.3021 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

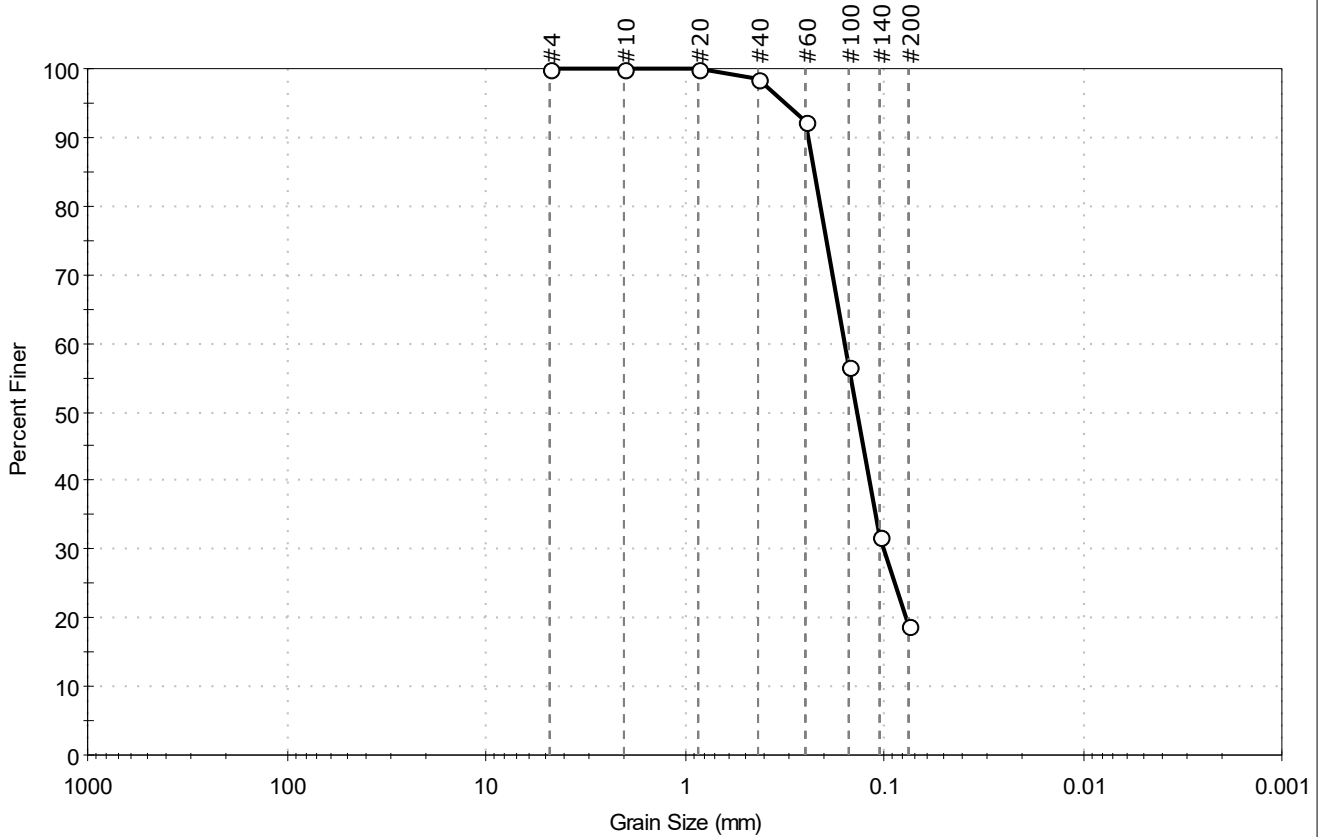
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ANGULAR
Sand/Gravel Hardness : HARD



Client: Langan Engineering  
 Project: 145 Wolcott Street  
 Location: Brooklyn, NY  
 Project No: GTX-318694  
 Boring ID: LB-11  
 Sample Type: Unspecified  
 Tested By: ckg  
 Sample ID: S-13  
 Test Date: 03/03/24  
 Checked By: ank  
 Depth: 40-42  
 Test Id: 760582  
 Test Comment: ---  
 Visual Description: Very Moist, brown silty sand  
 Sample Comment: ---

## Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	81.0	19.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	99		
#60	0.25	92		
#100	0.15	57		
#140	0.11	32		
#200	0.075	19		

<u>Coefficients</u>	
D <sub>85</sub> = 0.2255 mm	D <sub>30</sub> = 0.1007 mm
D <sub>60</sub> = 0.1577 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.1368 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

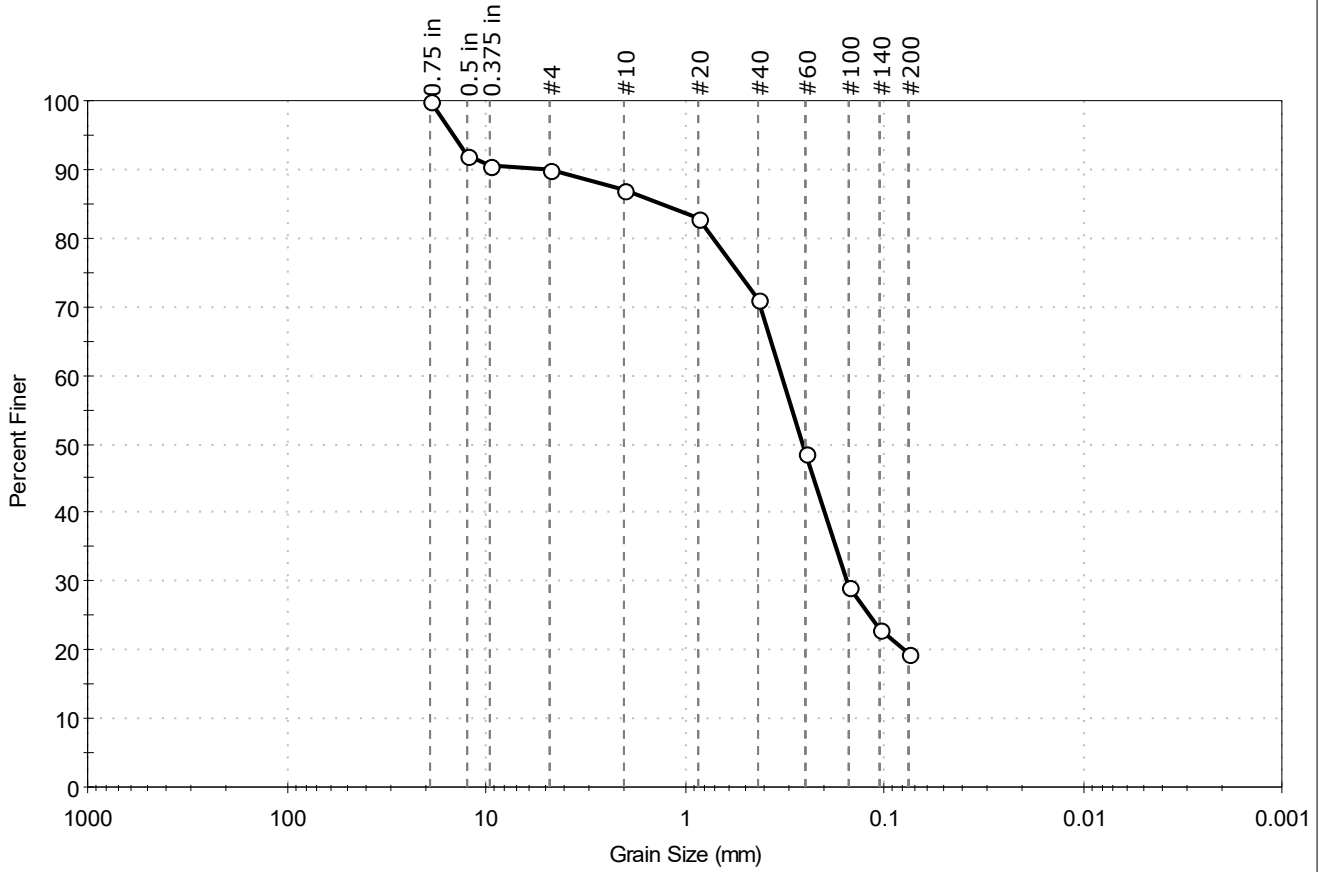
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---



Client: Langan Engineering	Project No: GTX-318694
Project: 145 Wolcott Street	
Location: Brooklyn, NY	
Boring ID: LB-11	Sample Type: Unspecified
Sample ID: S-21	Tested By: ckg
Depth: 80-82	Test Date: 03/03/24
	Checked By: ank
	Test Id: 760583
Test Comment: ---	
Visual Description: Moist, brown silty sand	
Sample Comment: ---	

## Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	10.1	70.3	19.6

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
0.5 in	12.50	92		
0.375 in	9.50	91		
#4	4.75	90		
#10	2.00	87		
#20	0.85	83		
#40	0.42	71		
#60	0.25	49		
#100	0.15	29		
#140	0.11	23		
#200	0.075	20		

<u>Coefficients</u>	
D <sub>85</sub> = 1.2857 mm	D <sub>30</sub> = 0.1530 mm
D <sub>60</sub> = 0.3275 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.2583 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

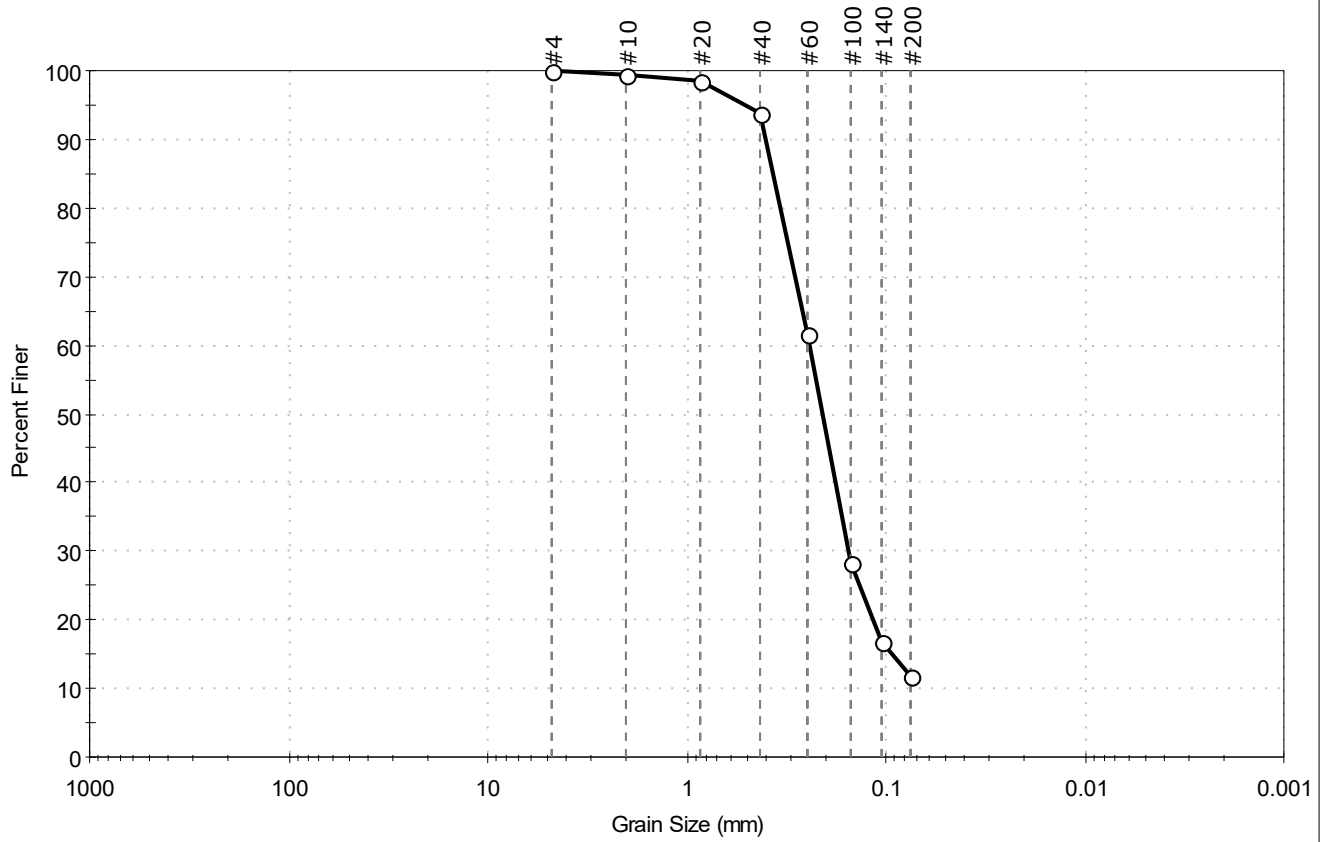
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ANGULAR
Sand/Gravel Hardness : HARD



Client: Langan Engineering	Project No: GTX-318694
Project: 145 Wolcott Street	
Location: Brooklyn, NY	
Boring ID: LB-12	Sample Type: Unspecified
Sample ID: S-2	Tested By: ckg
Depth: 7-9	Test Date: 03/03/24
	Checked By: ank
	Test Id: 760580
Test Comment: ---	
Visual Description: Moist, reddish brown sand with silt	
Sample Comment: ---	

## Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	88.2	11.8

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	99		
#20	0.85	98		
#40	0.42	94		
#60	0.25	62		
#100	0.15	28		
#140	0.11	17		
#200	0.075	12		

<u>Coefficients</u>	
D <sub>85</sub> = 0.3676 mm	D <sub>30</sub> = 0.1540 mm
D <sub>60</sub> = 0.2442 mm	D <sub>15</sub> = 0.0931 mm
D <sub>50</sub> = 0.2094 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

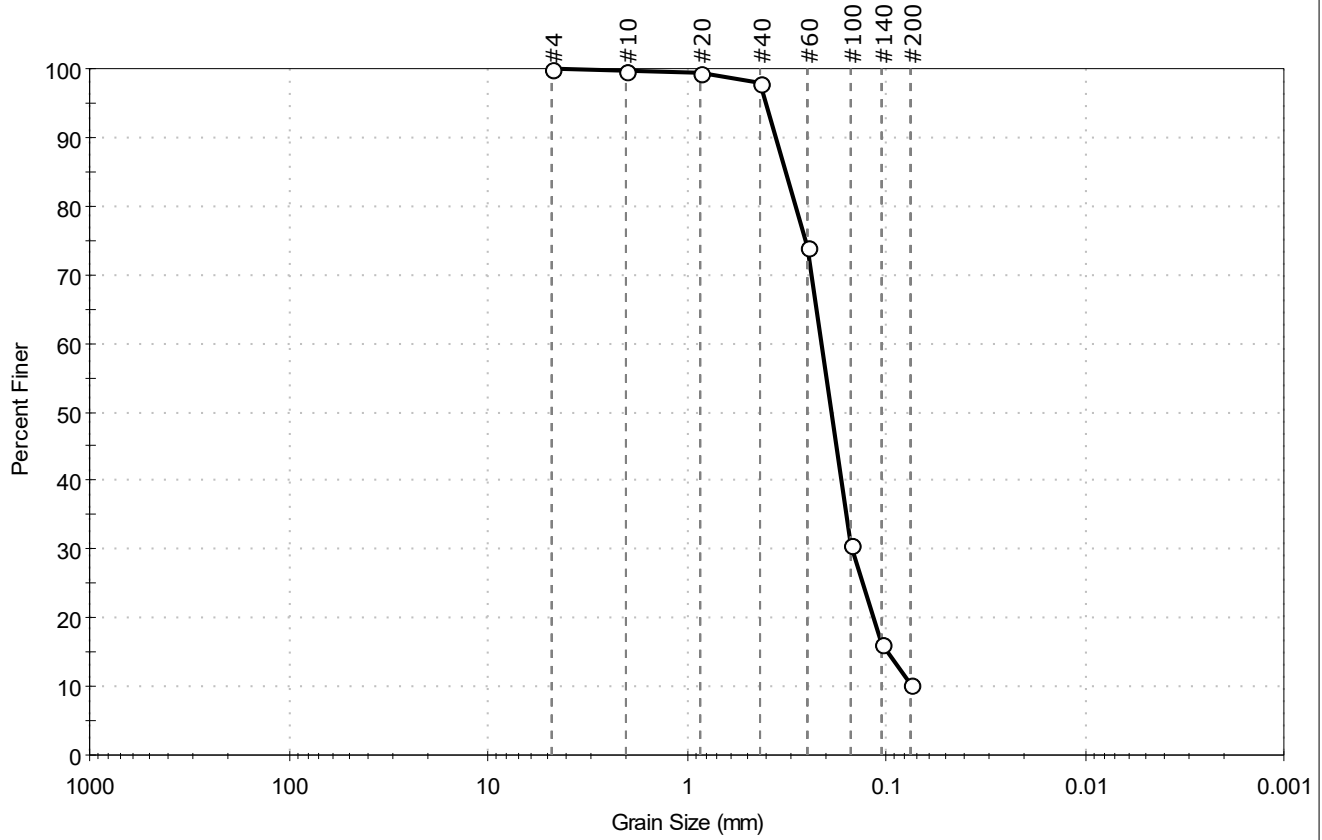
<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---





Client: Langan Engineering  
 Project: 145 Wolcott Street  
 Location: Brooklyn, NY  
 Project No: GTX-318694  
 Boring ID: LB-13  
 Sample Type: Unspecified  
 Tested By: ckg  
 Sample ID: S-15  
 Test Date: 03/03/24  
 Checked By: ank  
 Depth: 45-47  
 Test Id: 760579  
 Test Comment: ---  
 Visual Description: Moist, dark grayish brown sand with silt  
 Sample Comment: ---

## Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	89.8	10.2

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	99		
#40	0.42	98		
#60	0.25	74		
#100	0.15	31		
#140	0.11	16		
#200	0.075	10		

<b>Coefficients</b>	
D <sub>85</sub> = 0.3186 mm	D <sub>30</sub> = 0.1476 mm
D <sub>60</sub> = 0.2118 mm	D <sub>15</sub> = 0.0995 mm
D <sub>50</sub> = 0.1883 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

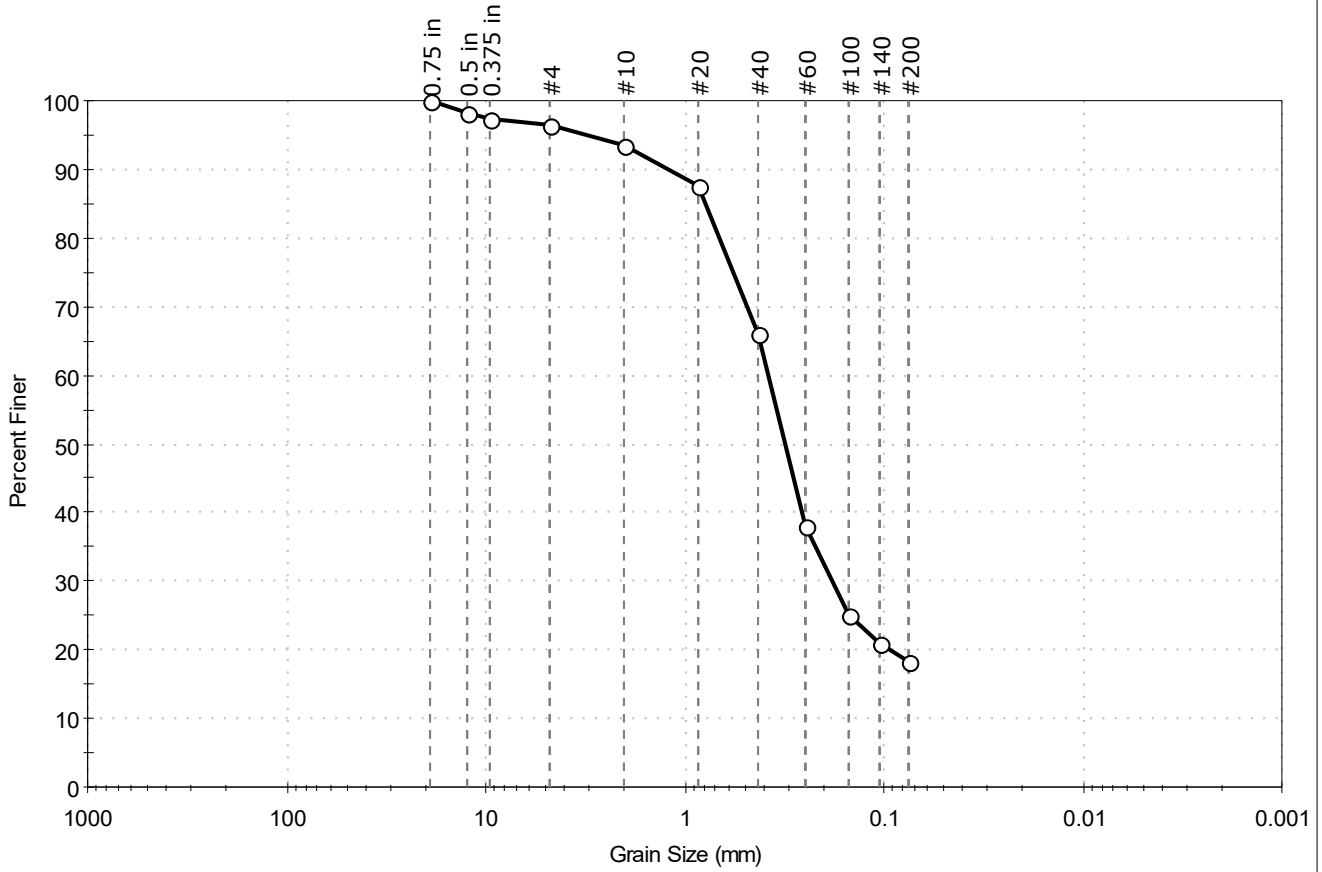
<b>Classification</b>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

<b>Sample/Test Description</b>
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---



Client: Langan Engineering	Project No: GTX-318694
Project: 145 Wolcott Street	
Location: Brooklyn, NY	
Boring ID: LB-14	Sample Type: Unspecified
Sample ID: S-12	Tested By: ckg
Depth: 35-37	Test Date: 03/03/24
	Checked By: ank
	Test Id: 760578
Test Comment: ---	
Visual Description: Moist, reddish brown silty sand	
Sample Comment: ---	

## Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	3.5	78.2	18.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.75 in	19.00	100		
0.5 in	12.50	98		
0.375 in	9.50	97		
#4	4.75	97		
#10	2.00	94		
#20	0.85	87		
#40	0.42	66		
#60	0.25	38		
#100	0.15	25		
#140	0.11	21		
#200	0.075	18		

<u>Coefficients</u>	
D <sub>85</sub> = 0.7840 mm	D <sub>30</sub> = 0.1821 mm
D <sub>60</sub> = 0.3787 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.3137 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

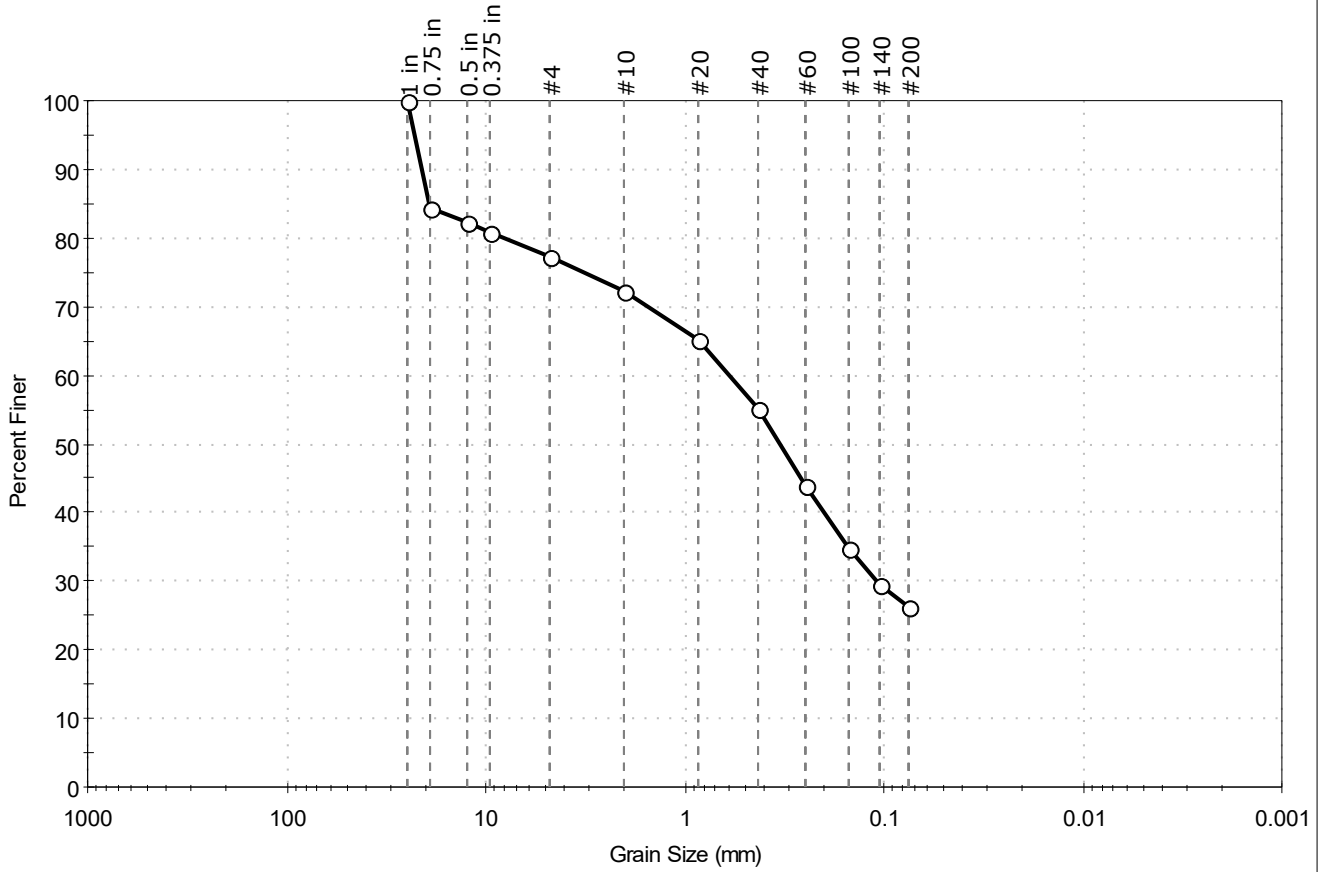
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ANGULAR
Sand/Gravel Hardness : HARD



Client: Langan Engineering	Project No: GTX-318694
Project: 145 Wolcott Street	
Location: Brooklyn, NY	
Boring ID: LB-15	Sample Type: Unspecified
Sample ID: S-10	Tested By: ckg
Depth: 30-32	Test Date: 03/03/24
	Checked By: ank
	Test Id: 760577
Test Comment: ---	
Visual Description: Moist, brown silty sand with gravel	
Sample Comment: ---	

## Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	22.8	50.8	26.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	84		
0.5 in	12.50	82		
0.375 in	9.50	81		
#4	4.75	77		
#10	2.00	72		
#20	0.85	65		
#40	0.42	55		
#60	0.25	44		
#100	0.15	35		
#140	0.11	30		
#200	0.075	26		

<b>Coefficients</b>	
D <sub>85</sub> = 19.2037 mm	D <sub>30</sub> = 0.1087 mm
D <sub>60</sub> = 0.5954 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.3332 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

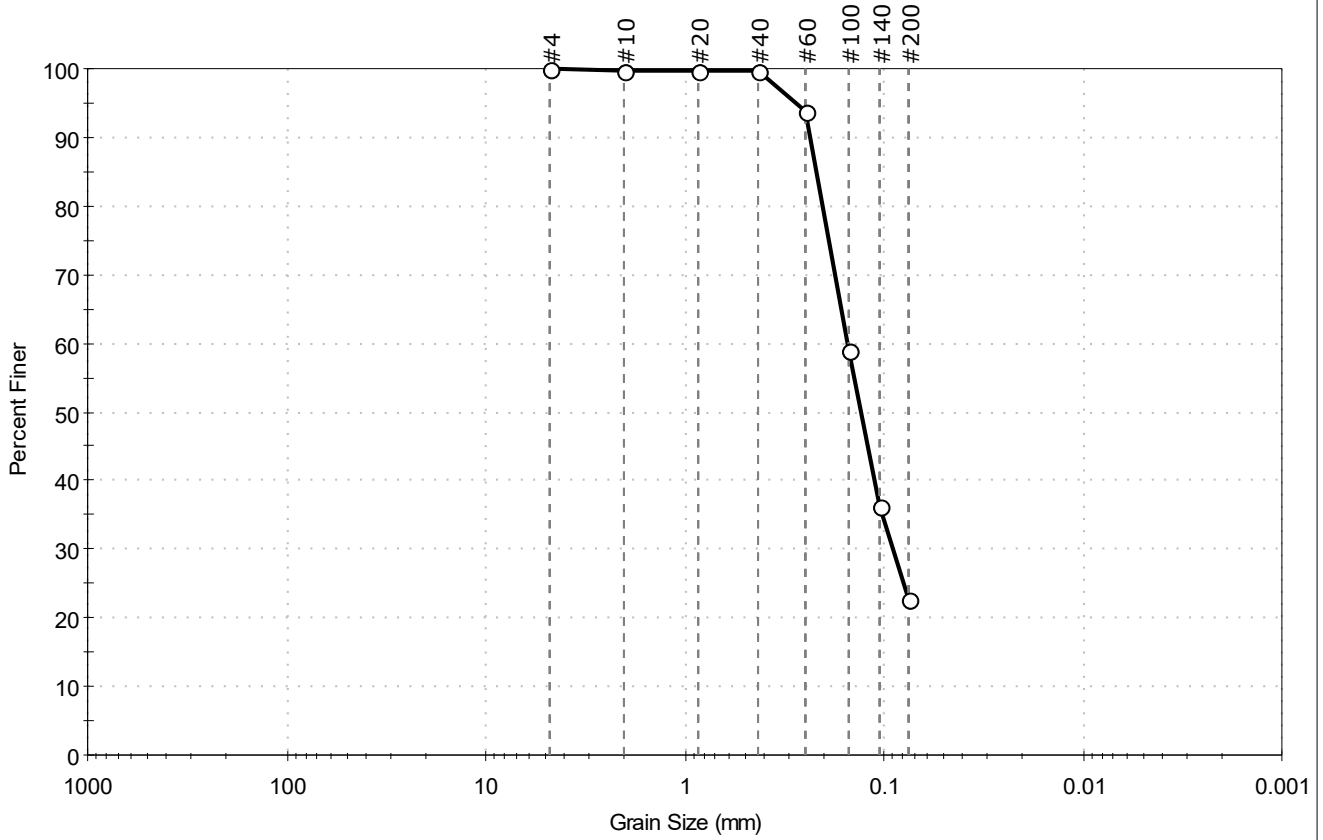
<b>Classification</b>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

<b>Sample/Test Description</b>
Sand/Gravel Particle Shape : ANGULAR
Sand/Gravel Hardness : HARD



Client: Langan Engineering  
 Project: 145 Wolcott Street  
 Location: Brooklyn, NY  
 Project No: GTX-318694  
 Boring ID: LB-16  
 Sample Type: Unspecified  
 Tested By: ckg  
 Sample ID: S-17  
 Test Date: 03/03/24  
 Checked By: ank  
 Depth: 70-72  
 Test Id: 760576  
 Test Comment: ---  
 Visual Description: Moist, reddish brown silty sand  
 Sample Comment: ---

## Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	77.1	22.9

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	100		
#60	0.25	94		
#100	0.15	59		
#140	0.11	36		
#200	0.075	23		

<b>Coefficients</b>	
D <sub>85</sub> = 0.2200 mm	D <sub>30</sub> = 0.0903 mm
D <sub>60</sub> = 0.1525 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.1309 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

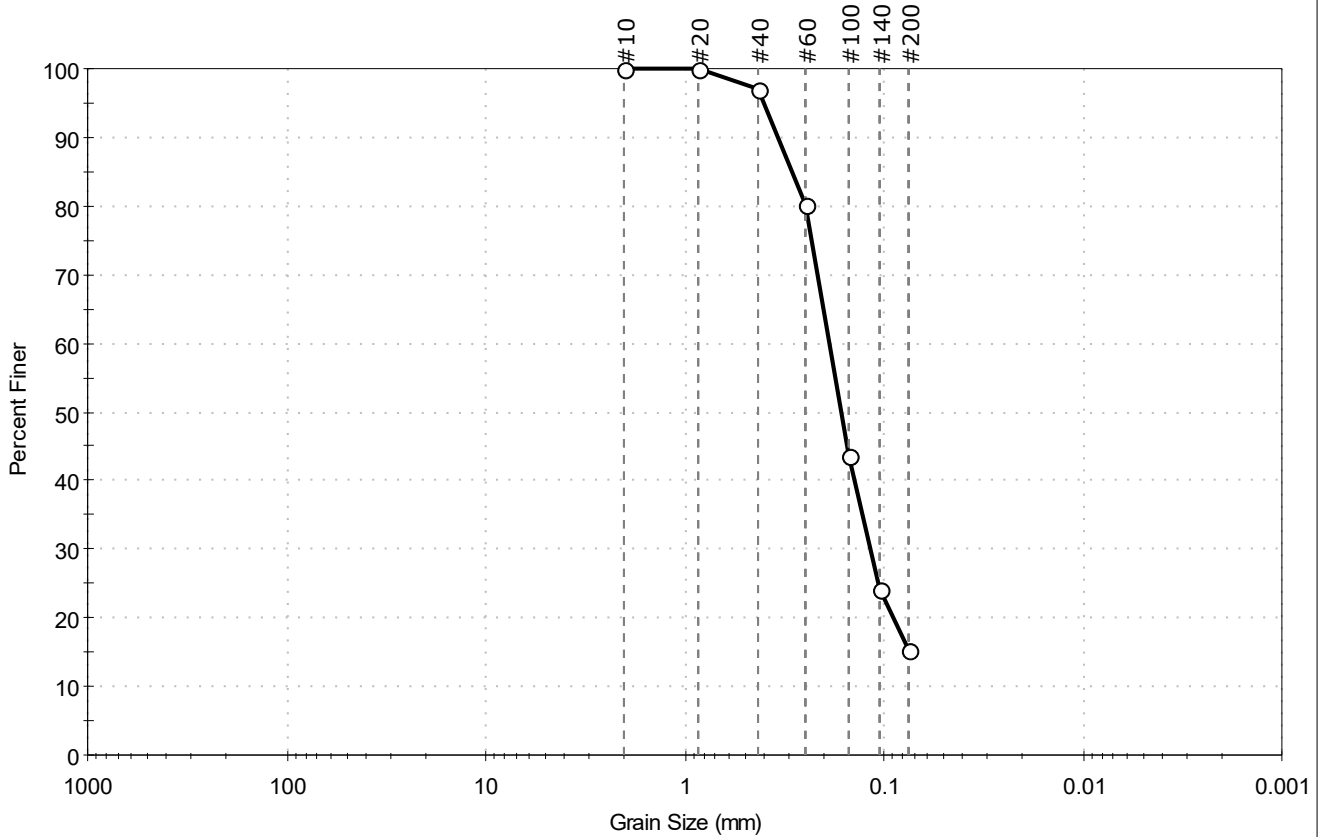
<b>Classification</b>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

<b>Sample/Test Description</b>
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---



Client: Langan Engineering	Project No: GTX-318694
Project: 145 Wolcott Street	
Location: Brooklyn, NY	
Boring ID: LB-17	Sample Type: Unspecified
Sample ID: S-12	Tested By: ckg
Depth: 40-42	Test Date: 03/03/24
	Checked By: ank
	Test Id: 760575
Test Comment: ---	
Visual Description: Very Moist, brown silty sand	
Sample Comment: ---	

## Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	84.7	15.3

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#10	2.00	100		
#20	0.85	100		
#40	0.42	97		
#60	0.25	80		
#100	0.15	44		
#140	0.11	24		
#200	0.075	15		

<u>Coefficients</u>	
D <sub>85</sub> = 0.2909 mm	D <sub>30</sub> = 0.1178 mm
D <sub>60</sub> = 0.1885 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.1638 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

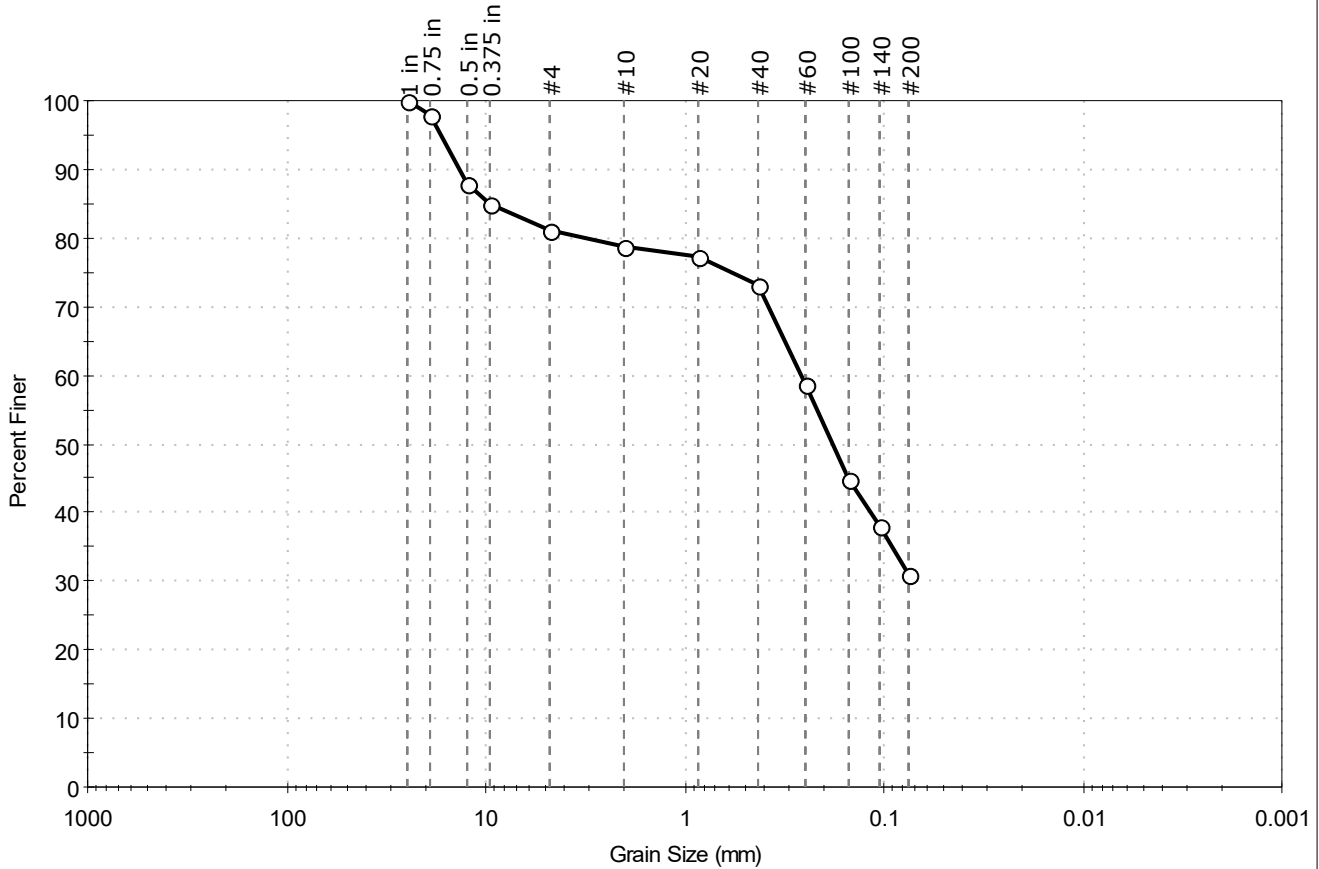
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---



Client: Langan Engineering	Project No: GTX-318694
Project: 145 Wolcott Street	
Location: Brooklyn, NY	
Boring ID: LB-7	Sample Type: Unspecified
Sample ID: S-6	Tested By: ckg
Depth: 11-13	Test Date: 03/03/24
	Checked By: ank
	Test Id: 760589
Test Comment: ---	
Visual Description: Very Moist, dark grayish brown silty sand with gravel	
Sample Comment: ---	

## Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	19.0	49.9	31.1

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	98		
0.5 in	12.50	88		
0.375 in	9.50	85		
#4	4.75	81		
#10	2.00	79		
#20	0.85	77		
#40	0.42	73		
#60	0.25	59		
#100	0.15	45		
#140	0.11	38		
#200	0.075	31		

<u>Coefficients</u>	
D <sub>85</sub> = 9.4709 mm	D <sub>30</sub> = N/A
D <sub>60</sub> = 0.2627 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.1810 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

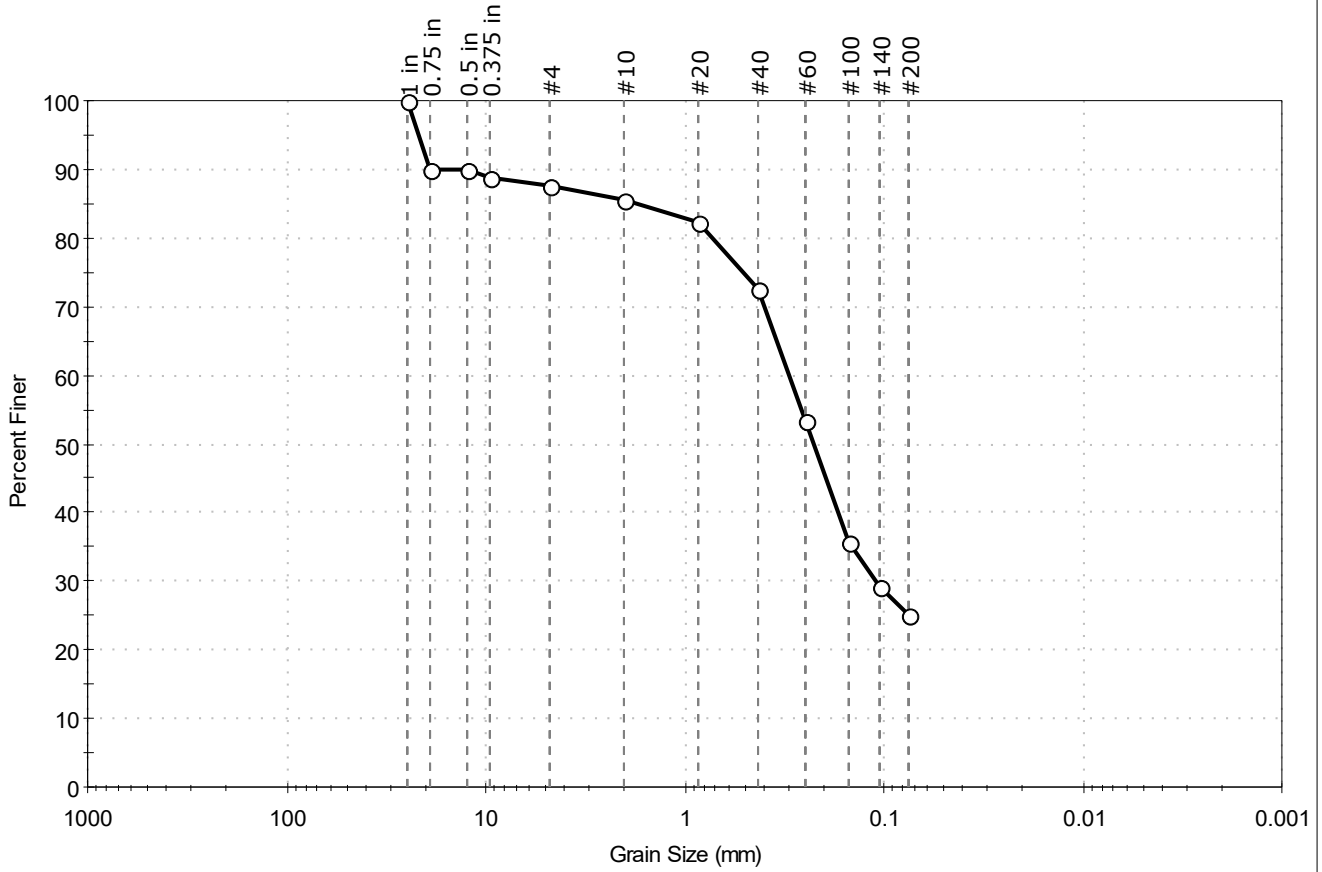
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ANGULAR
Sand/Gravel Hardness : HARD



Client: Langan Engineering	Project No: GTX-318694
Project: 145 Wolcott Street	
Location: Brooklyn, NY	
Boring ID: LB-7	Sample Type: Unspecified
Sample ID: S-18	Tested By: ckg
Depth: 70-72	Test Date: 03/03/24
	Checked By: ank
	Test Id: 760590
Test Comment: ---	
Visual Description: Moist, brown silty sand	
Sample Comment: ---	

## Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	12.5	62.5	25.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	90		
0.5 in	12.50	90		
0.375 in	9.50	89		
#4	4.75	88		
#10	2.00	85		
#20	0.85	82		
#40	0.42	72		
#60	0.25	53		
#100	0.15	36		
#140	0.11	29		
#200	0.075	25		

<u>Coefficients</u>	
D <sub>85</sub> = 1.7965 mm	D <sub>30</sub> = 0.1111 mm
D <sub>60</sub> = 0.3006 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.2267 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

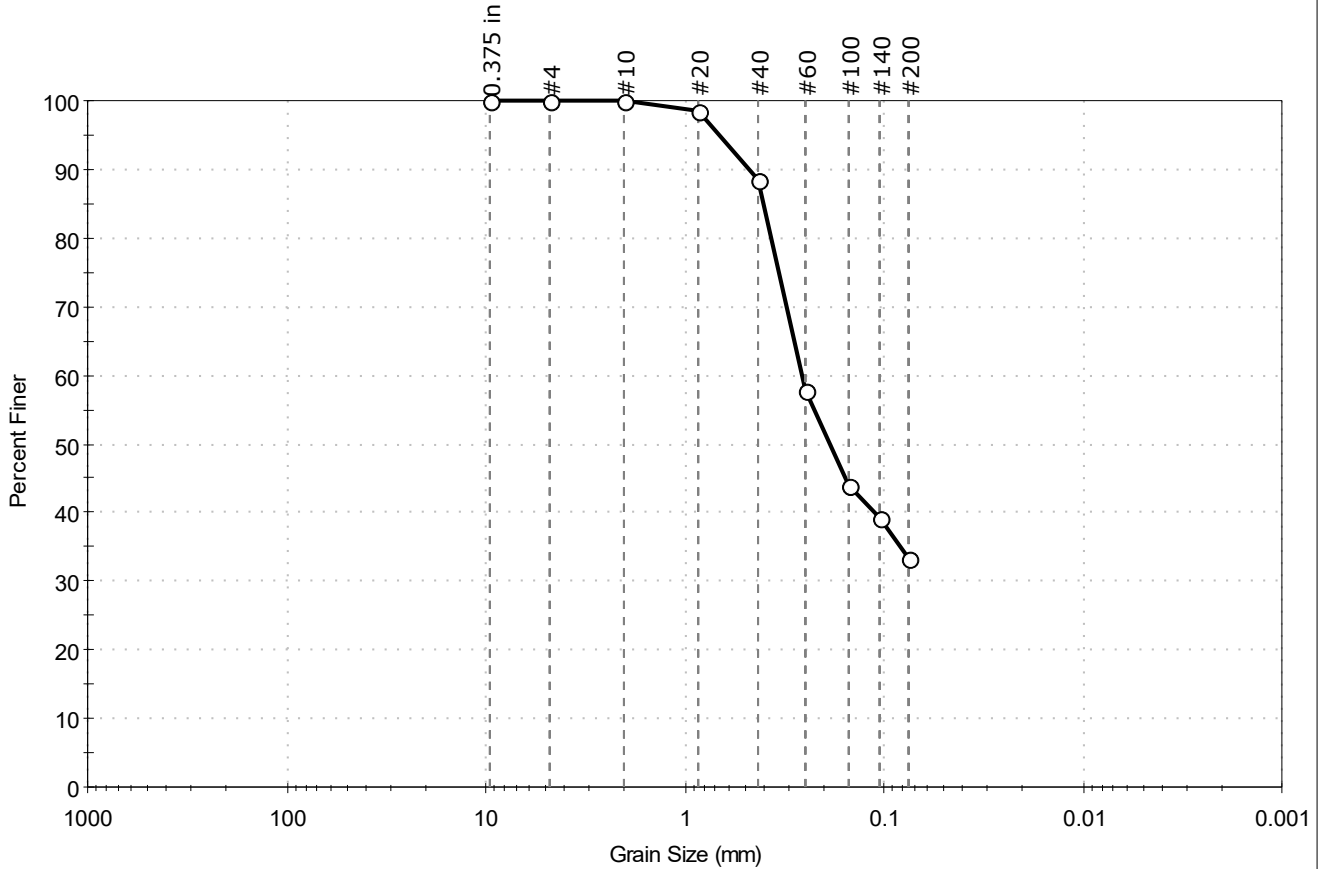
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ANGULAR
Sand/Gravel Hardness : HARD



Client: Langan Engineering	Project No: GTX-318694
Project: 145 Wolcott Street	
Location: Brooklyn, NY	
Boring ID: LB-8	Sample Type: Unspecified
Sample ID: S-10	Tested By: ckg
Depth: 30-32	Test Date: 03/03/24
	Checked By: ank
	Test Id: 760587
Test Comment: ---	
Visual Description: Moist, very dark brown silty sand	
Sample Comment: ---	

## Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.1	66.5	33.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.375 in	9.50	100		
#4	4.75	100		
#10	2.00	100		
#20	0.85	98		
#40	0.42	89		
#60	0.25	58		
#100	0.15	44		
#140	0.11	39		
#200	0.075	33		

<u>Coefficients</u>	
D <sub>85</sub> = 0.3993 mm	D <sub>30</sub> = N/A
D <sub>60</sub> = 0.2597 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.1871 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

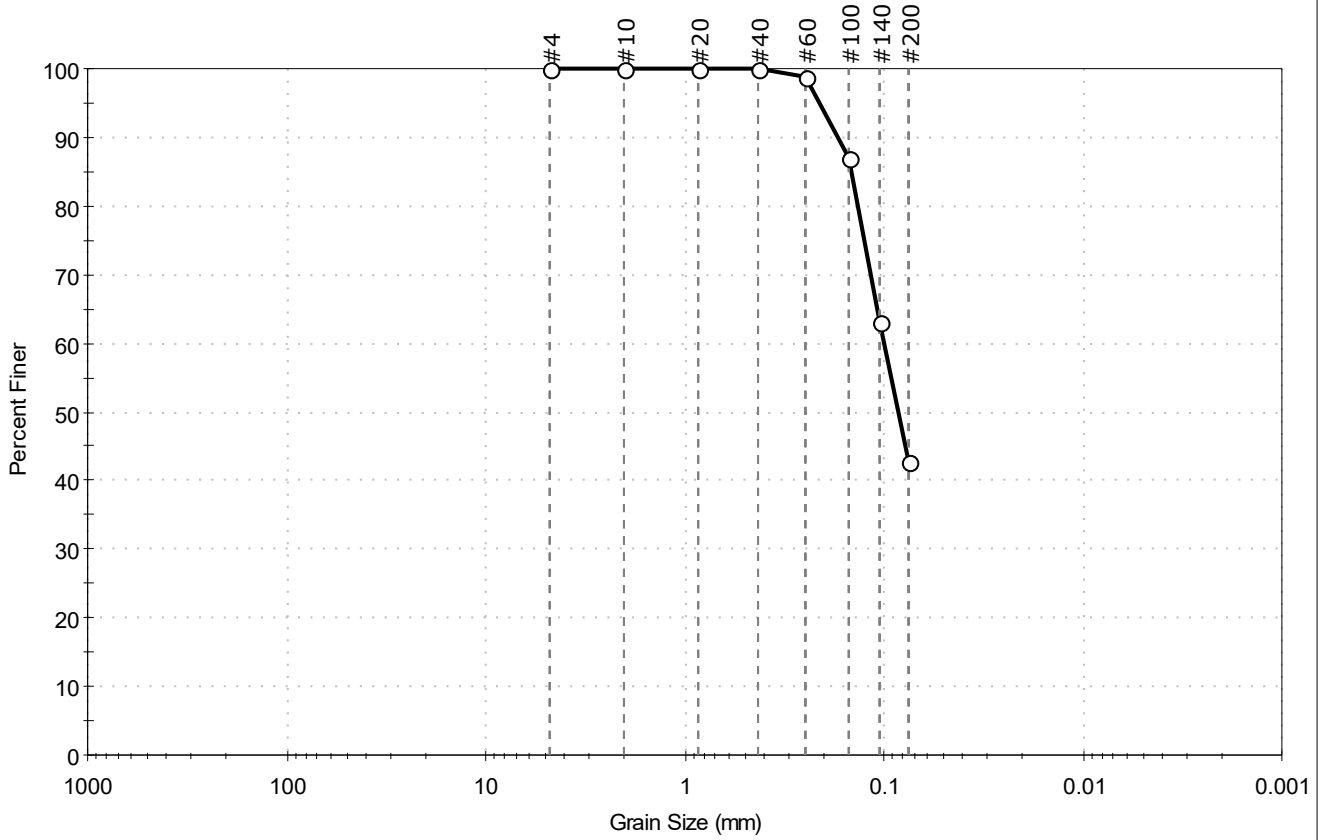
<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---





Client: Langan Engineering  
 Project: 145 Wolcott Street  
 Location: Brooklyn, NY  
 Project No: GTX-318694  
 Boring ID: LB-8  
 Sample Type: Unspecified  
 Tested By: ckg  
 Sample ID: S-14  
 Test Date: 03/03/24  
 Checked By: ank  
 Depth: 50-52  
 Test Id: 760588  
 Test Comment: ---  
 Visual Description: Very Moist, brown silty sand  
 Sample Comment: ---

## Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	57.2	42.8

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	100		
#60	0.25	99		
#100	0.15	87		
#140	0.11	63		
#200	0.075	43		

<u>Coefficients</u>	
D <sub>85</sub> = 0.1457 mm	D <sub>30</sub> = N/A
D <sub>60</sub> = 0.1006 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.0848 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

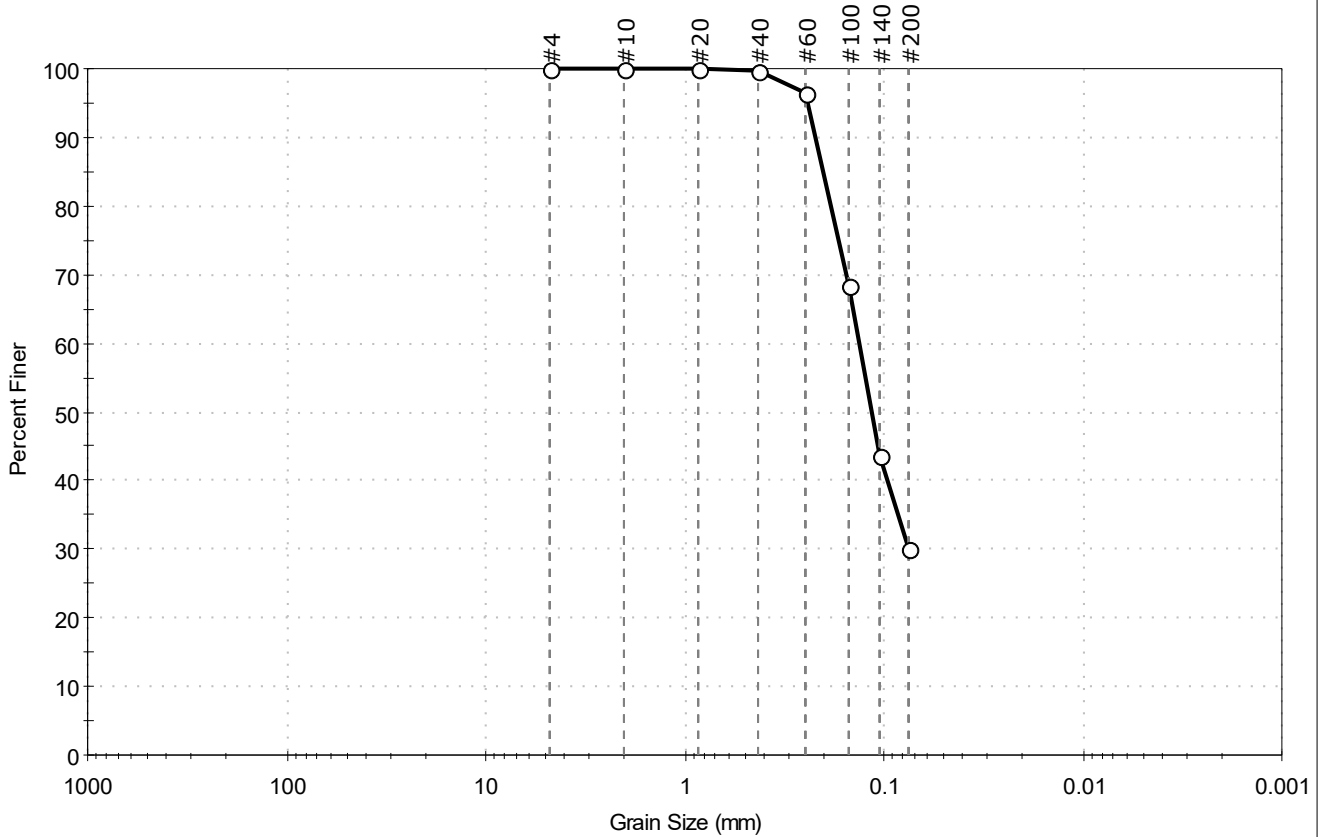
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Soils (A-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---



Client: Langan Engineering  
 Project: 145 Wolcott Street  
 Location: Brooklyn, NY  
 Project No: GTX-318694  
 Boring ID: LB-9  
 Sample Type: Unspecified  
 Tested By: ckg  
 Sample ID: S-16  
 Test Date: 03/03/24  
 Checked By: ank  
 Depth: 65-67  
 Test Id: 760585  
 Test Comment: ---  
 Visual Description: Moist, reddish brown silty sand  
 Sample Comment: ---

## Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.0	70.0	30.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
#4	4.75	100		
#10	2.00	100		
#20	0.85	100		
#40	0.42	100		
#60	0.25	96		
#100	0.15	68		
#140	0.11	44		
#200	0.075	30		

<u>Coefficients</u>	
D <sub>85</sub> = 0.2031 mm	D <sub>30</sub> = 0.0751 mm
D <sub>60</sub> = 0.1333 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.1160 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

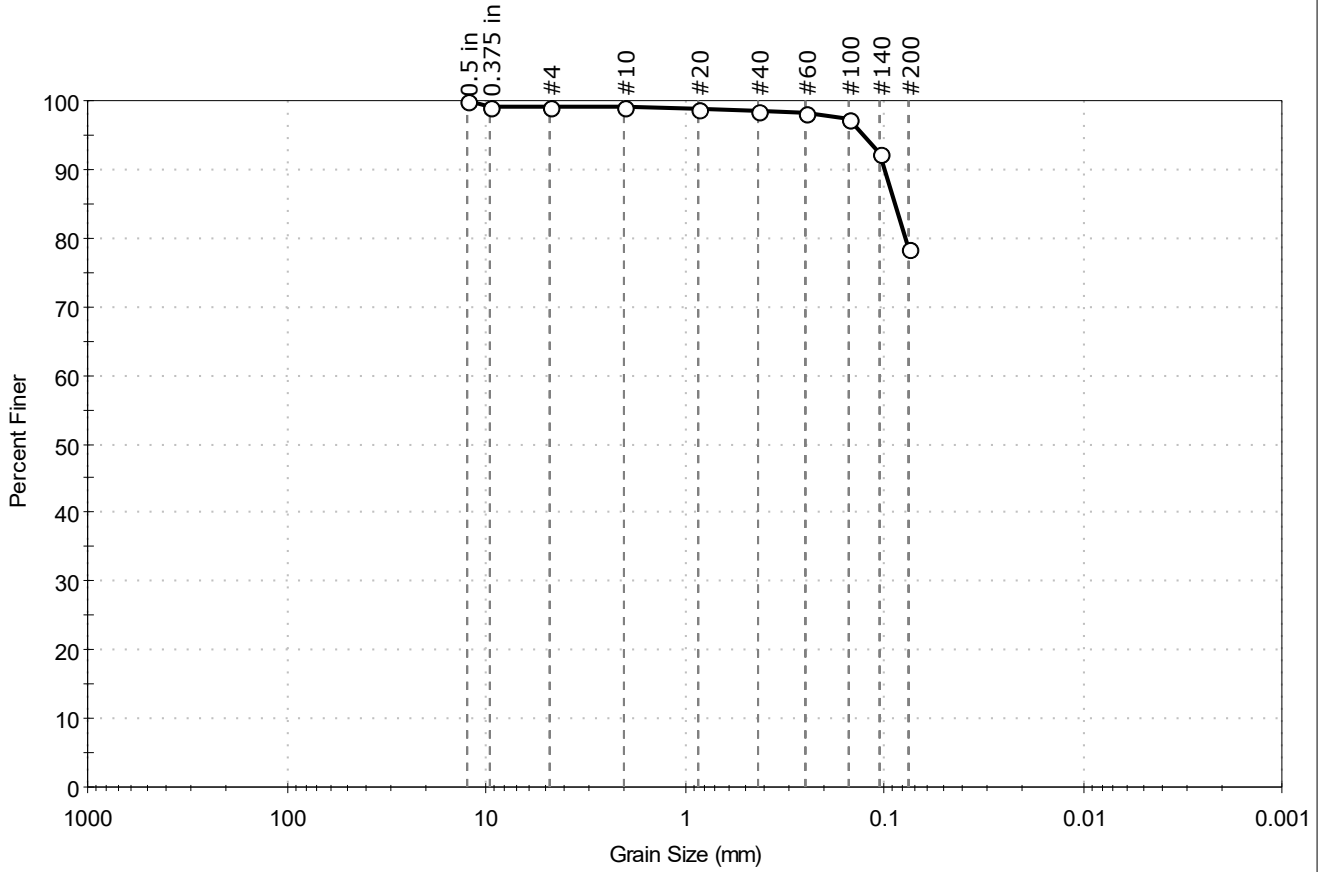
<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---



Client: Langan Engineering  
 Project: 145 Wolcott Street  
 Location: Brooklyn, NY  
 Project No: GTX-318694  
 Boring ID: LB-9  
 Sample Type: Unspecified  
 Sample ID: S-18  
 Test Date: 03/03/24  
 Depth: 75-77  
 Test Id: 760586  
 Tested By: ckg  
 Checked By: ank  
 Test Comment: ---  
 Visual Description: Moist, brown silt with sand  
 Sample Comment: ---

## Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	0.9	20.7	78.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.5 in	12.50	100		
0.375 in	9.50	99		
#4	4.75	99		
#10	2.00	99		
#20	0.85	99		
#40	0.42	99		
#60	0.25	98		
#100	0.15	97		
#140	0.11	92		
#200	0.075	78		

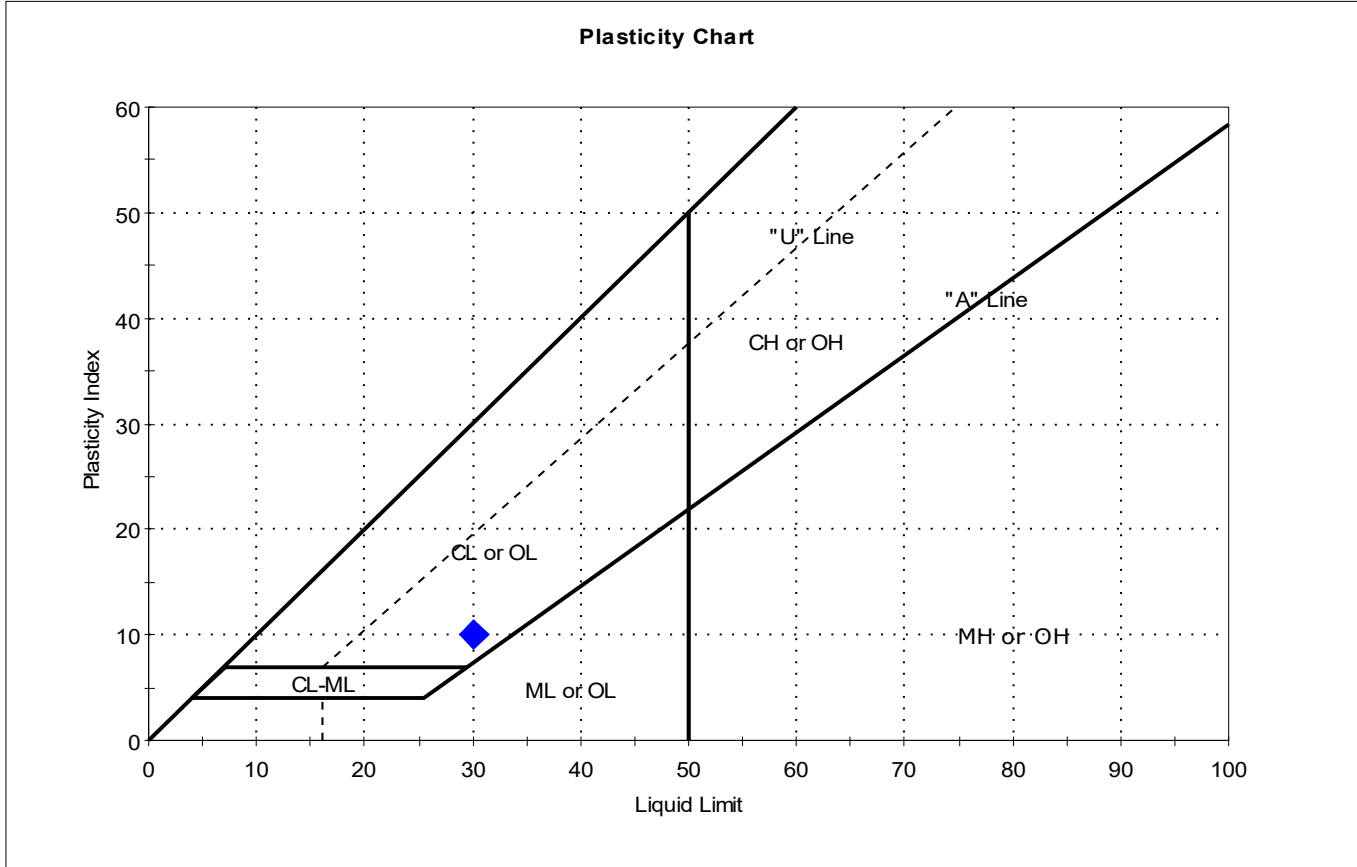
<b>Coefficients</b>	
D <sub>85</sub> = 0.0884 mm	D <sub>30</sub> = N/A
D <sub>60</sub> = N/A	D <sub>15</sub> = N/A
D <sub>50</sub> = N/A	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

<b>Classification</b>	
ASTM	N/A
AASHTO	Silty Soils (A-4 (0))

<b>Sample/Test Description</b>
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---

Client: Langan Engineering	Project No: GTX-318694
Project: 145 Wolcott Street	
Location: Brooklyn, NY	
Boring ID: LB-13	Sample Type: Unspecified
Sample ID: S-11	Tested By: ckg
Depth: 25-27	Test Date: 03/02/24
	Checked By: ank
	Test Id: 760574
Test Comment: ---	
Visual Description: Moist, brown clay	
Sample Comment: ---	

## Atterberg Limits - ASTM D4318



Symbol	Sample ID	Boring	Depth	Natural Moisture Content, %	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
◆	S-11	LB-13	25-27	28	30	20	10	0.8	

Sample Prepared using the WET method

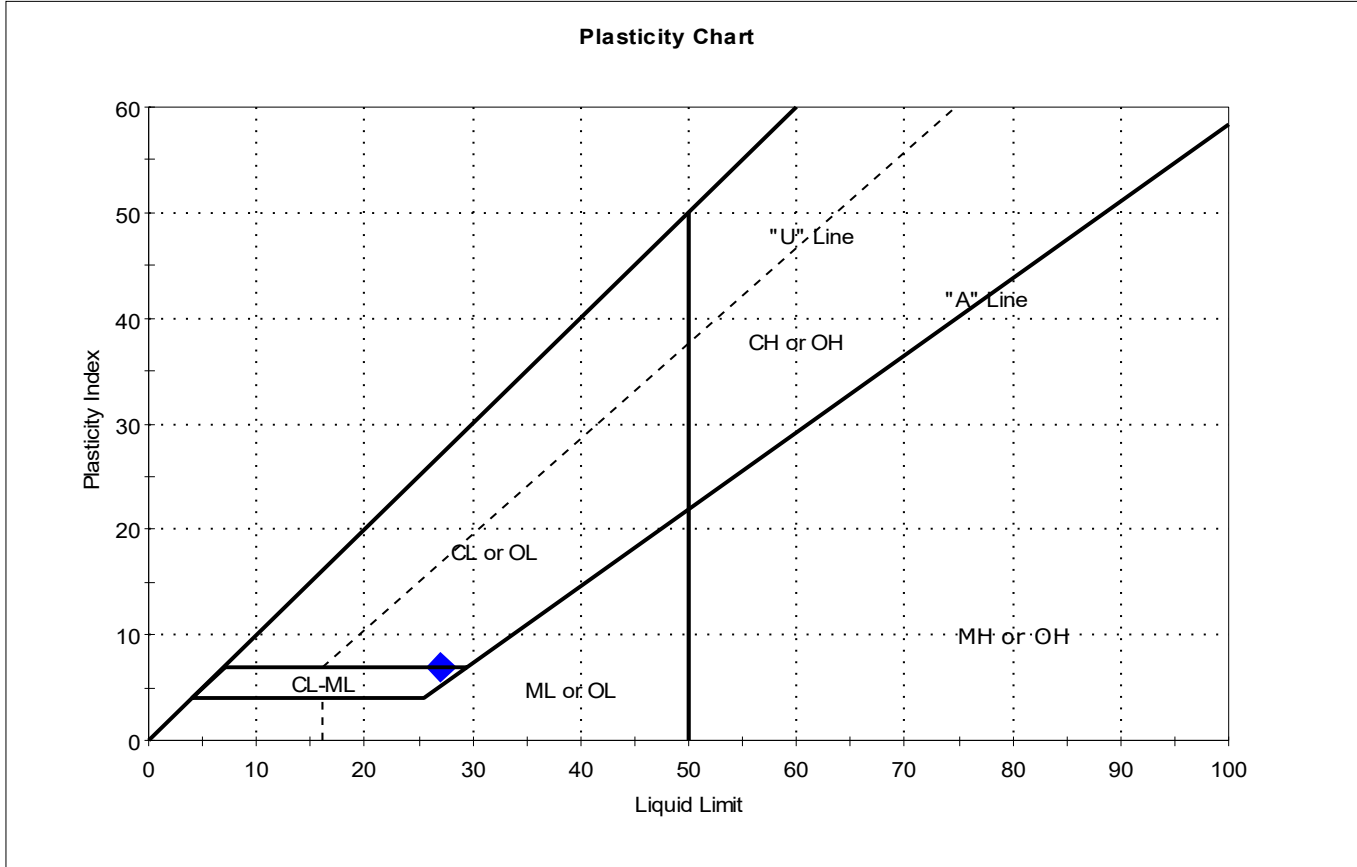
Dry Strength: VERY HIGH

Dilatancy: SLOW

Toughness: LOW

Client: Langan Engineering	Project No: GTX-318694
Project: 145 Wolcott Street	
Location: Brooklyn, NY	
Boring ID: LB-16	Sample Type: Unspecified
Sample ID: S-7	Tested By: ckg
Depth: 20-22	Test Date: 03/02/24
	Checked By: ank
	Test Id: 760573
Test Comment: ---	
Visual Description: Moist, brown clay with sand	
Sample Comment: ---	

## Atterberg Limits - ASTM D4318



Symbol	Sample ID	Boring	Depth	Natural Moisture Content, %	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
◆	S-7	LB-16	20-22	22	27	20	7	0.2	

Sample Prepared using the WET method

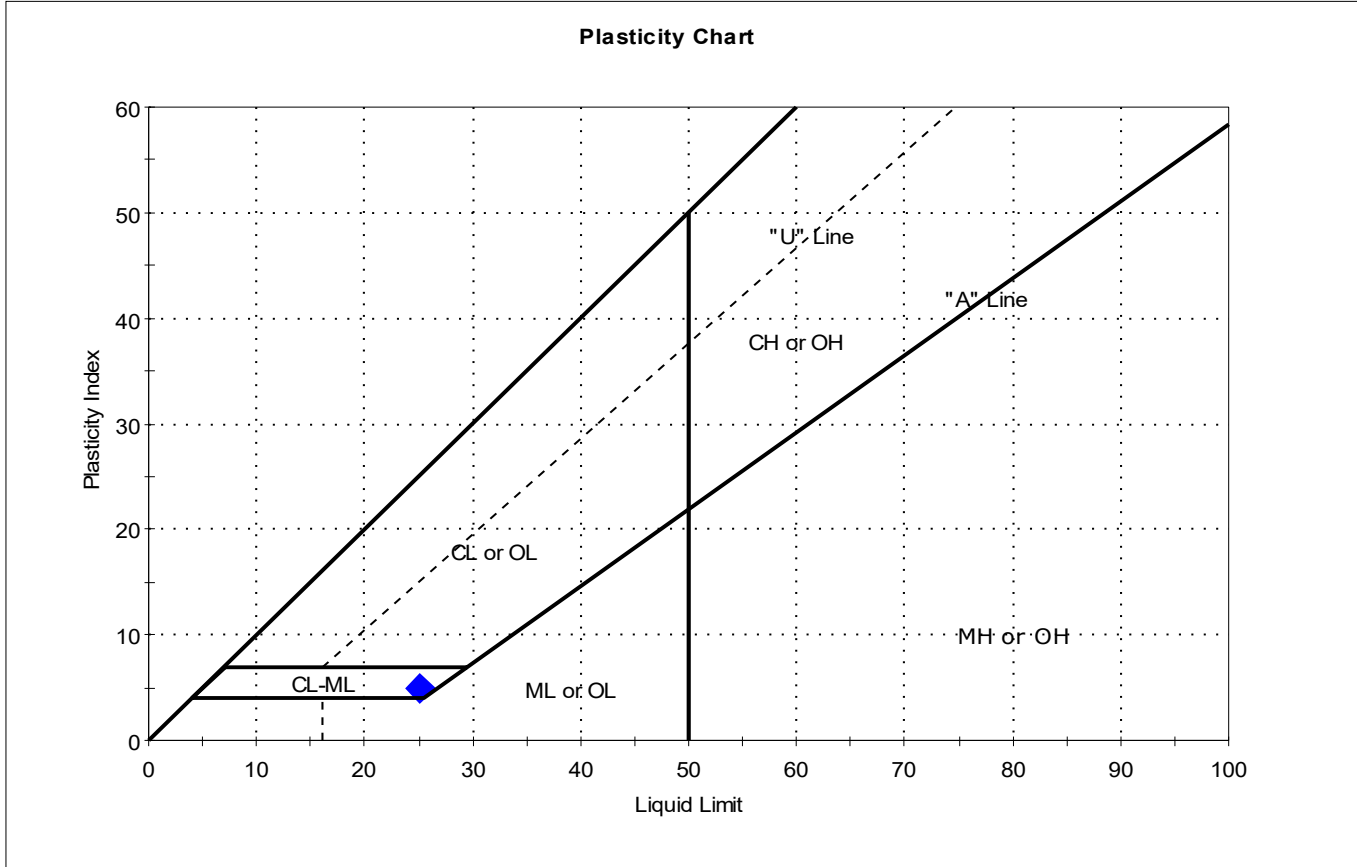
Dry Strength: VERY HIGH

Dilatancy: SLOW

Toughness: LOW

Client: Langan Engineering	Project No: GTX-318694
Project: 145 Wolcott Street	
Location: Brooklyn, NY	
Boring ID: LB-17	Sample Type: Unspecified
Sample ID: S-9	Tested By: ckg
Depth: 25-27	Test Date: 03/02/24
	Checked By: ank
	Test Id: 760572
Test Comment: ---	
Visual Description: Moist, brown silty clay	
Sample Comment: ---	

## Atterberg Limits - ASTM D4318



Symbol	Sample ID	Boring	Depth	Natural Moisture Content, %	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
◆	S-9	LB-17	25-27	34	25	20	5	2.8	

Sample Prepared using the WET method

Dry Strength: VERY HIGH

Dilatancy: SLOW

Toughness: LOW



Client:	Langan Engineering	Project No:	GTX-318654		
Project:	145 Wolcott Street				
Location:	Brooklyn, NY				
Boring ID:	---	Sample Type:	---	Tested By:	ckg
Sample ID:	---	Test Date:	03/05/24	Checked By:	ank
Depth :	---	Test Id:	759573		

## Moisture Content of Soil and Rock - ASTM D2216

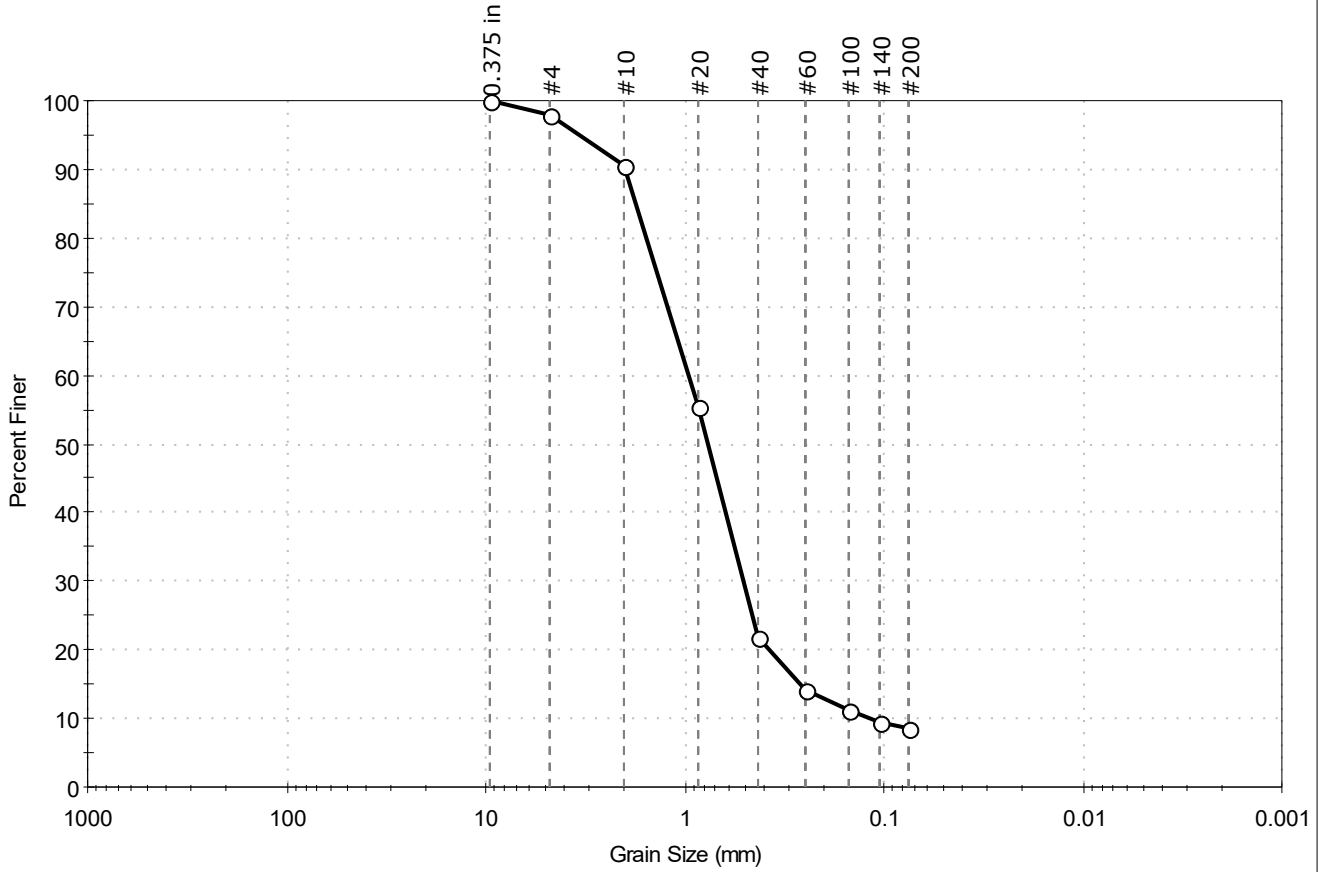
Boring ID	Sample ID	Depth	Description	Moisture Content, %
LB-18	S- 14	29-31	Moist, reddish brown clay	26.9
LB-18	S- 26	85-87	Moist, brown sand with silt	16.6

Notes: Temperature of Drying : 110° Celsius



Client: Langan Engineering	Project: 145 Wolcott Street	Location: Brooklyn, NY	Project No: GTX-318654
Boring ID: LB-18	Sample Type: Jar	Tested By: ckg	Checked By: ank
Sample ID: S-8	Test Date: 02/24/24	Test Id: 759524	
Depth: 17-19			
Test Comment: ---			
Visual Description: Moist, grayish brown sand with silt			
Sample Comment: ---			

## Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	2.2	89.3	8.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.375 in	9.50	100		
#4	4.75	98		
#10	2.00	91		
#20	0.85	55		
#40	0.42	22		
#60	0.25	14		
#100	0.15	11		
#140	0.11	10		
#200	0.075	8.5		

<u>Coefficients</u>	
D <sub>85</sub> = 1.7444 mm	D <sub>30</sub> = 0.5021 mm
D <sub>60</sub> = 0.9485 mm	D <sub>15</sub> = 0.2626 mm
D <sub>50</sub> = 0.7588 mm	D <sub>10</sub> = 0.1172 mm
C <sub>u</sub> = 8.093	C <sub>c</sub> = 2.268

<u>Classification</u>	
ASTM	N/A
AASHTO	Stone Fragments, Gravel and Sand (A-1-b (1))

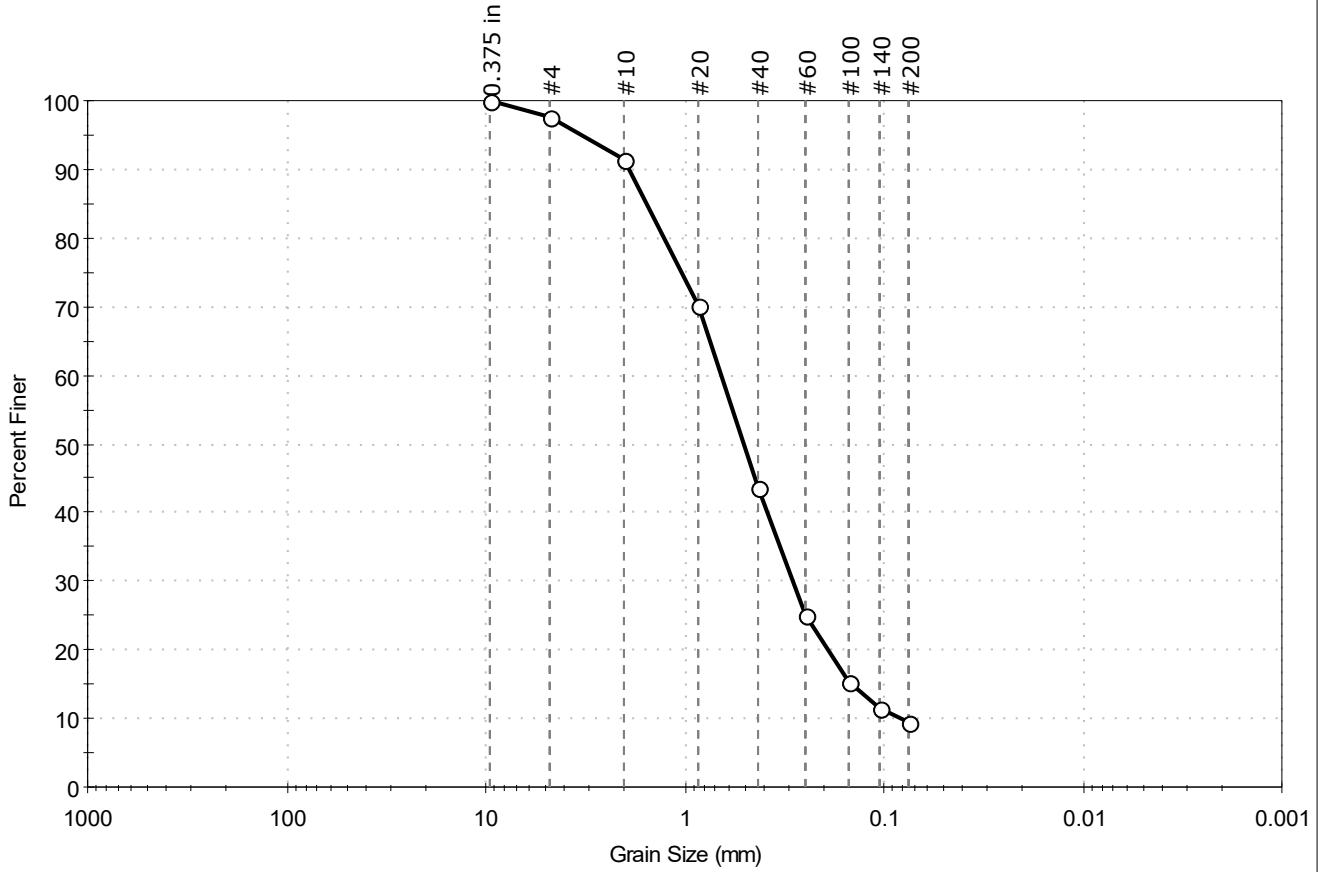
<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ANGULAR
Sand/Gravel Hardness : HARD





Client: Langan Engineering	Project No: GTX-318654
Project: 145 Wolcott Street	
Location: Brooklyn, NY	
Boring ID: LB-18	Sample Type: Jar
Sample ID: S-26	Test Date: 02/24/24
Depth: 85-87	Test Id: 759525
Test Comment: ---	Tested By: ckg
Visual Description: Moist, brown sand with silt	Checked By: ank
Sample Comment: ---	

## Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	2.3	88.2	9.5

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.375 in	9.50	100		
#4	4.75	98		
#10	2.00	91		
#20	0.85	70		
#40	0.42	44		
#60	0.25	25		
#100	0.15	15		
#140	0.11	11		
#200	0.075	9.5		

<u>Coefficients</u>	
D <sub>85</sub> = 1.5421 mm	D <sub>30</sub> = 0.2875 mm
D <sub>60</sub> = 0.6510 mm	D <sub>15</sub> = 0.1463 mm
D <sub>50</sub> = 0.5013 mm	D <sub>10</sub> = 0.0819 mm
C <sub>u</sub> = 7.949	C <sub>c</sub> = 1.550

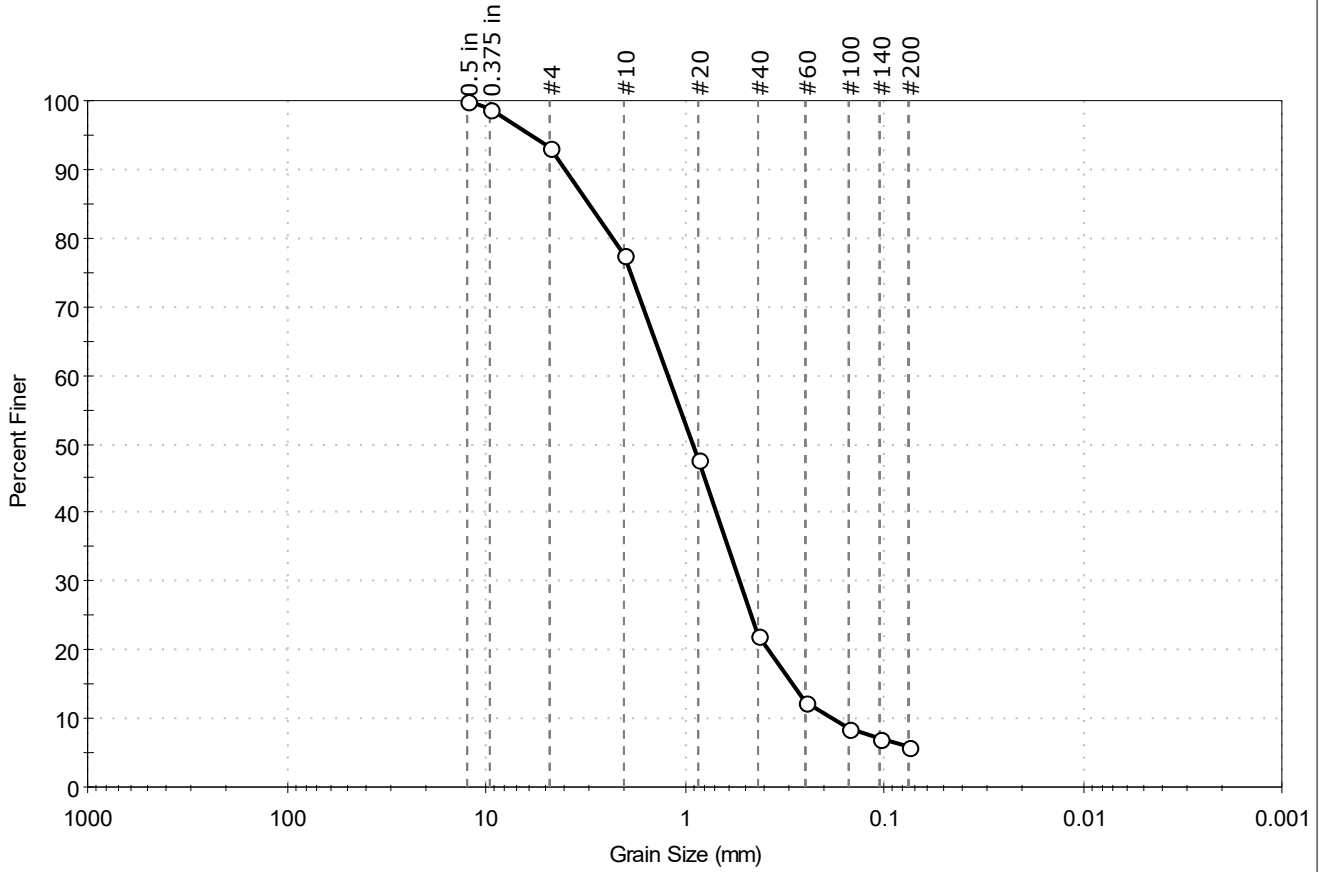
<u>Classification</u>	
ASTM	N/A
AASHTO	Stone Fragments, Gravel and Sand (A-1-b (1))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ANGULAR
Sand/Gravel Hardness : HARD



Client: Langan Engineering	Project No: GTX-318654
Project: 145 Wolcott Street	
Location: Brooklyn, NY	
Boring ID: LB-19	Sample Type: Jar
Sample ID: S-14	Tested By: ckg
Depth : 30-32	Test Date: 02/24/24
	Checked By: ank
	Test Id: 759526
Test Comment: ---	
Visual Description: Moist, grayish brown sand with silt	
Sample Comment: ---	

## Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	6.9	87.1	6.0

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.5 in	12.50	100		
0.375 in	9.50	99		
#4	4.75	93		
#10	2.00	78		
#20	0.85	48		
#40	0.42	22		
#60	0.25	12		
#100	0.15	9		
#140	0.11	7		
#200	0.075	6.0		

<u>Coefficients</u>	
D <sub>85</sub> = 3.0063 mm	D <sub>30</sub> = 0.5252 mm
D <sub>60</sub> = 1.2074 mm	D <sub>15</sub> = 0.2881 mm
D <sub>50</sub> = 0.9081 mm	D <sub>10</sub> = 0.1804 mm
C <sub>u</sub> = 6.693	C <sub>c</sub> = 1.266

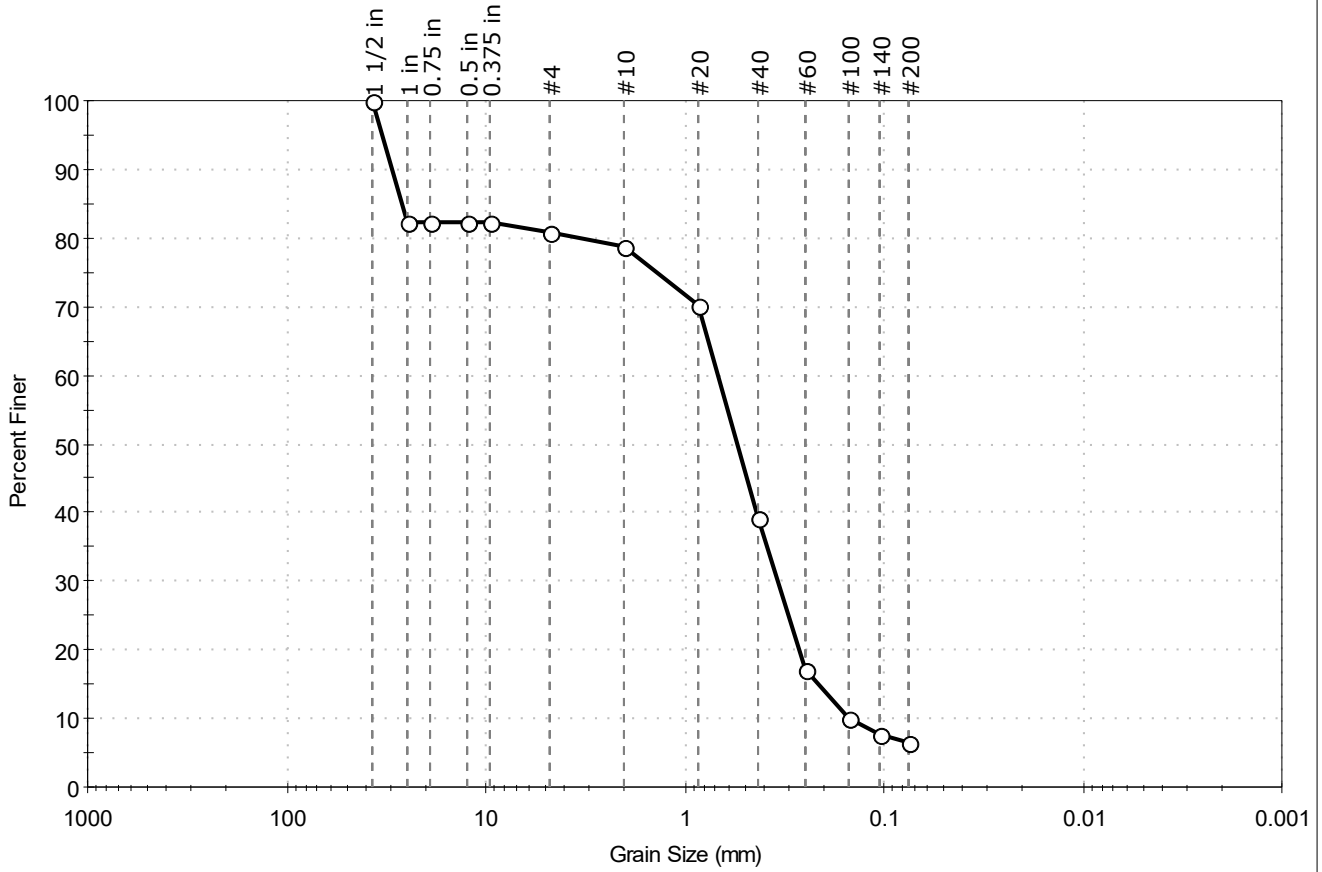
<u>Classification</u>	
ASTM	N/A
AASHTO	Stone Fragments, Gravel and Sand (A-1-b (1))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ANGULAR
Sand/Gravel Hardness : HARD



Client: Langan Engineering	Project: 145 Wolcott Street	Location: Brooklyn, NY	Project No: GTX-318654
Boring ID: LB-20	Sample Type: Jar	Tested By: ckg	
Sample ID: S-15	Test Date: 02/24/24	Checked By: ank	
Depth : 50-52	Test Id: 759527		
Test Comment: ---			
Visual Description: Moist, grayish brown sand with silt and gravel			
Sample Comment: ---			

## Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	19.1	74.5	6.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 1/2 in	37.50	100		
1 in	25.00	82		
0.75 in	19.00	82		
0.5 in	12.50	82		
0.375 in	9.50	82		
#4	4.75	81		
#10	2.00	79		
#20	0.85	70		
#40	0.42	39		
#60	0.25	17		
#100	0.15	10		
#140	0.11	8		
#200	0.075	6.4		

<u>Coefficients</u>	
D <sub>85</sub> = 26.5897 mm	D <sub>30</sub> = 0.3405 mm
D <sub>60</sub> = 0.6768 mm	D <sub>15</sub> = 0.2142 mm
D <sub>50</sub> = 0.5412 mm	D <sub>10</sub> = 0.1506 mm
C <sub>u</sub> = 4.494	C <sub>c</sub> = 1.137

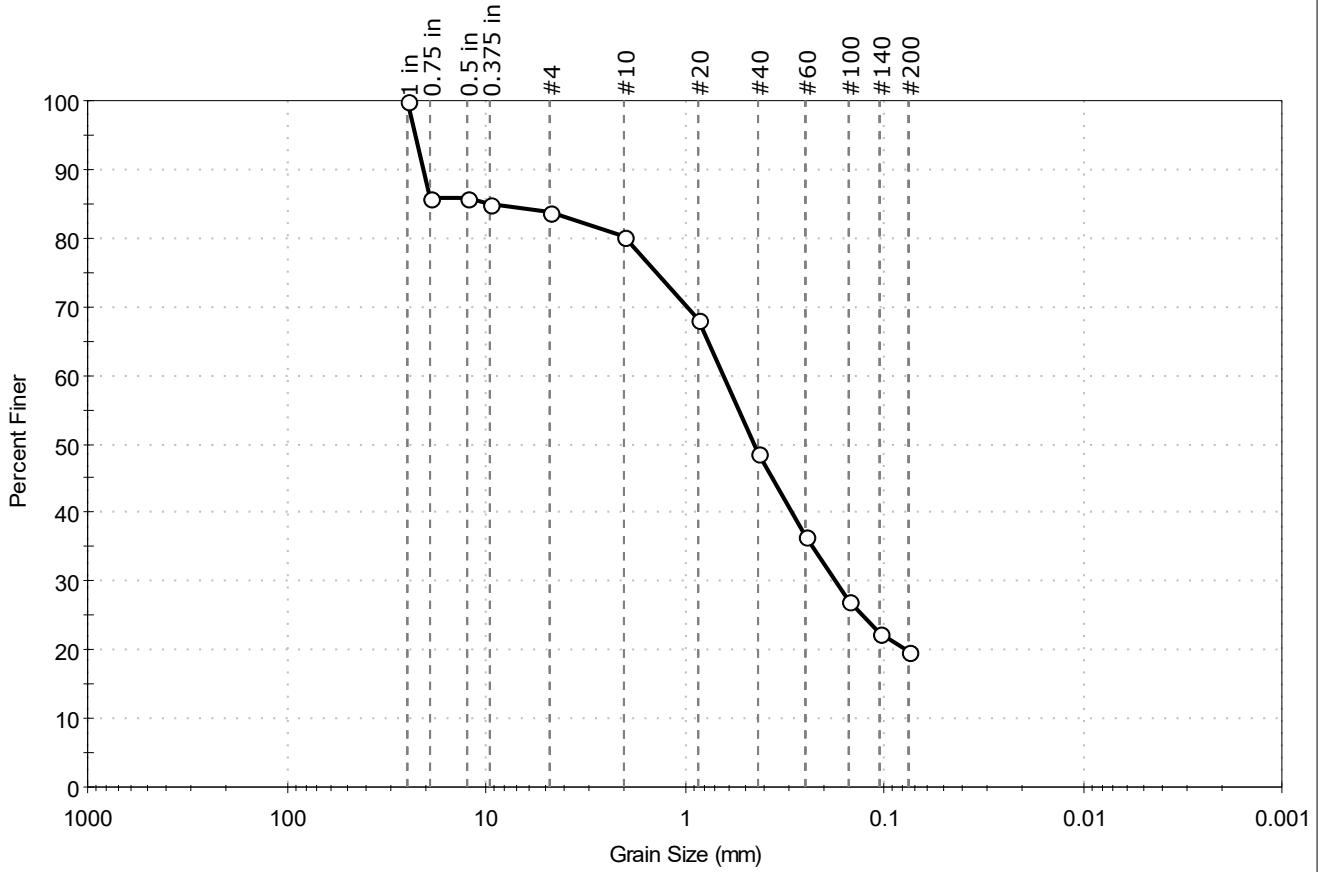
<u>Classification</u>	
ASTM	N/A
AASHTO	Stone Fragments, Gravel and Sand (A-1-b (1))

<u>Sample/Test Description</u>	
Sand/Gravel Particle Shape : ANGULAR	
Sand/Gravel Hardness : HARD	



Client: Langan Engineering	Project No: GTX-318654
Project: 145 Wolcott Street	
Location: Brooklyn, NY	
Boring ID: LB-21	Sample Type: Jar
Sample ID: S-8	Test Date: 02/24/24
Depth: 17-19	Test Id: 759528
Test Comment: ---	Tested By: ckg
Visual Description: Wet, brown silty sand with gravel	Checked By: ank
Sample Comment: ---	

## Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	16.3	63.8	19.9

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
1 in	25.00	100		
0.75 in	19.00	86		
0.5 in	12.50	86		
0.375 in	9.50	85		
#4	4.75	84		
#10	2.00	80		
#20	0.85	68		
#40	0.42	49		
#60	0.25	37		
#100	0.15	27		
#140	0.11	22		
#200	0.075	20		

<u>Coefficients</u>	
D <sub>85</sub> = 9.1404 mm	D <sub>30</sub> = 0.1756 mm
D <sub>60</sub> = 0.6368 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.4445 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

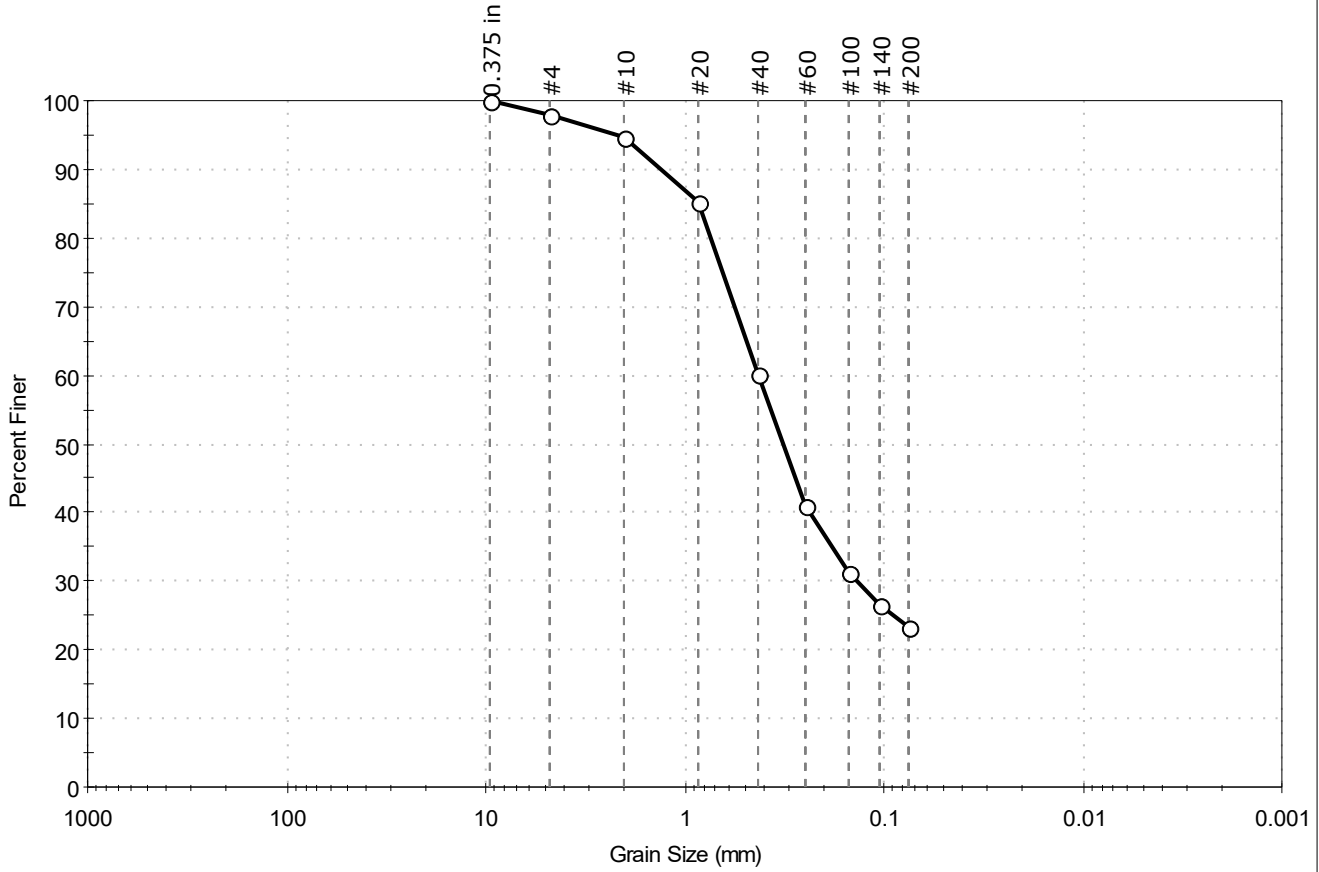
<u>Classification</u>	
ASTM	N/A
AASHTO	Stone Fragments, Gravel and Sand (A-1-b (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ANGULAR
Sand/Gravel Hardness : HARD



Client: Langan Engineering	Project No: GTX-318654
Project: 145 Wolcott Street	
Location: Brooklyn, NY	
Boring ID: LB-21	Sample Type: Jar
Sample ID: S-21	Test Date: 02/24/24
Depth: 65-67	Test Id: 759529
Test Comment: ---	Tested By: ckg
Visual Description: Moist, grayish brown silty sand	Checked By: ank
Sample Comment: ---	

## Particle Size Analysis - ASTM D6913



% Cobble	% Gravel	% Sand	% Silt & Clay Size
—	2.1	74.5	23.4

Sieve Name	Sieve Size, mm	Percent Finer	Spec. Percent	Complies
0.375 in	9.50	100		
#4	4.75	98		
#10	2.00	95		
#20	0.85	85		
#40	0.42	60		
#60	0.25	41		
#100	0.15	31		
#140	0.11	27		
#200	0.075	23		

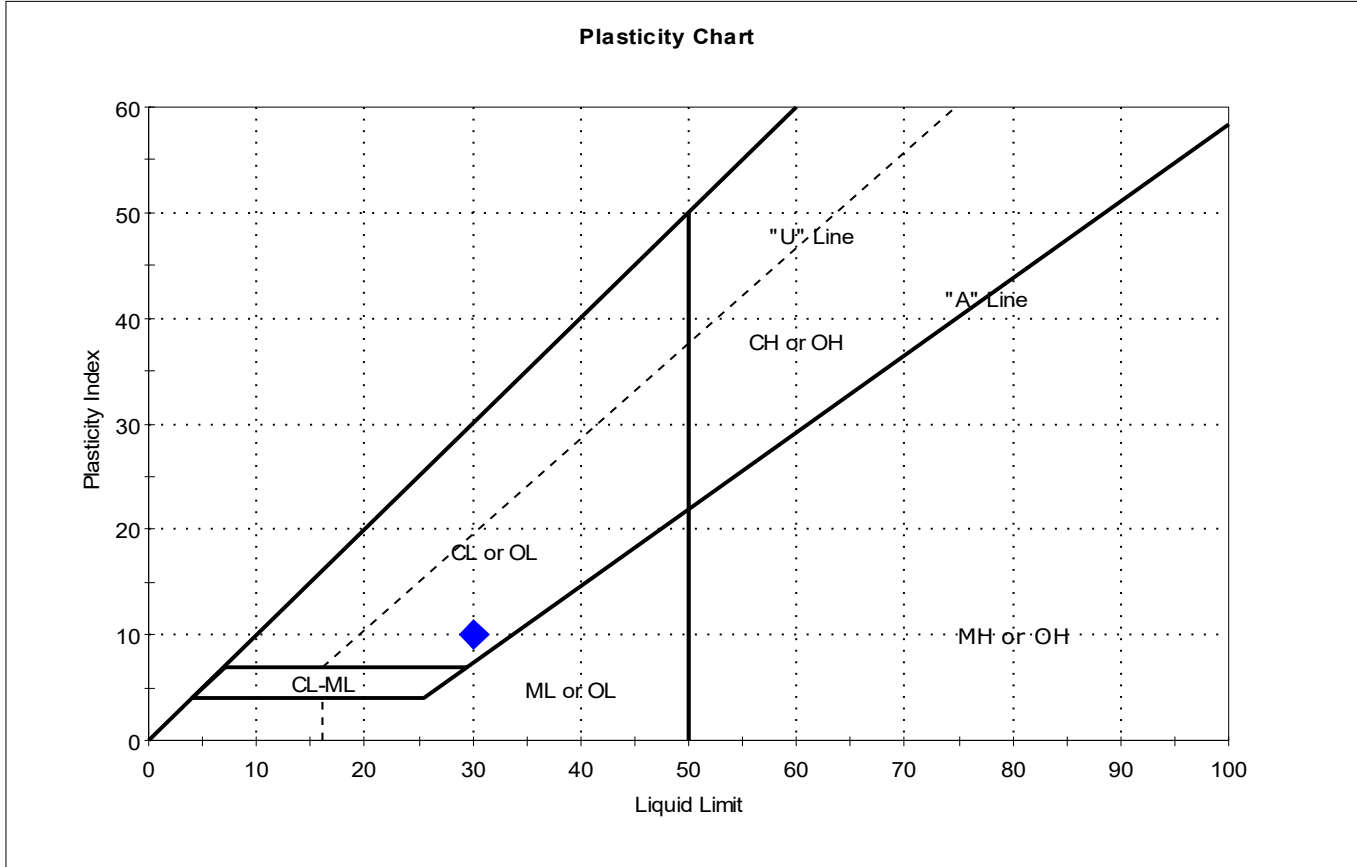
<u>Coefficients</u>	
D <sub>85</sub> = 0.8458 mm	D <sub>30</sub> = 0.1373 mm
D <sub>60</sub> = 0.4219 mm	D <sub>15</sub> = N/A
D <sub>50</sub> = 0.3197 mm	D <sub>10</sub> = N/A
C <sub>u</sub> = N/A	C <sub>c</sub> = N/A

<u>Classification</u>	
ASTM	N/A
AASHTO	Silty Gravel and Sand (A-2-4 (0))

<u>Sample/Test Description</u>
Sand/Gravel Particle Shape : ---
Sand/Gravel Hardness : ---

Client: Langan Engineering	Project: 145 Wolcott Street	Location: Brooklyn, NY	Project No: GTX-318654
Boring ID: LB-18	Sample Type: Jar	Tested By: cam	
Sample ID: S-14	Test Date: 02/24/24	Checked By: ank	
Depth : 29-31	Test Id: 759523		
Test Comment: ---			
Visual Description: Moist, reddish brown clay			
Sample Comment: ---			

## Atterberg Limits - ASTM D4318



Symbol	Sample ID	Boring	Depth	Natural Moisture Content, %	Liquid Limit	Plastic Limit	Plasticity Index	Liquidity Index	Soil Classification
◆	S-14	LB-18	29-31	27	30	20	10	0.7	

Sample Prepared using the WET method

Dry Strength: VERY HIGH

Dilatancy: SLOW

Toughness: LOW

# APPENDIX E

(SITE-SPECIFIC SEISMIC STUDY)

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# SITE-SPECIFIC SEISMIC STUDY

for

**145 Wolcott Street  
Brooklyn, New York**

*Prepared For:*

**Bungalow Projects  
233 Broadway, 10th Floor  
New York, NY 10279**

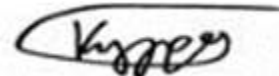
*Prepared By:*

**Langan Engineering, Environmental, Surveying,  
Landscape Architecture, and Geology D.P.C.  
360 West 31<sup>st</sup> Street, 8<sup>th</sup> Floor  
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**LANGAN**

**11 April 2024  
170562204**



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## EXECUTIVE SUMMARY

Langan performed a site-specific seismic study for the proposed development located at 145 Wolcott Street in Brooklyn, New York. The site was originally classified as Site Class D based on shear wave velocity measurements. The site was reclassified as F based on preliminary liquefaction assessment analyses using the general procedure peak ground accelerations from the Building Code. Site Class F requires site-specific seismic analyses to assess the seismic response of the ground and to determine seismic parameters for use in design of the proposed structure, according to the 2022 New York City Building Code (NYCBC).

Our study reflects the state-of-practice in the fields of seismology and geotechnical earthquake engineering and was performed in accordance with the 2022 NYCBC and ASCE 7-16. Our study included the following:

1. We performed seismic hazard analyses and selected acceleration time series that were deemed appropriate for the site.
2. We performed site-specific ground response analyses to develop a site-specific seismic design response spectrum.
3. We evaluated the potential for liquefaction of the soils located below the groundwater table for the maximum considered earthquake geometric mean ( $MCE_G$ ) level event.
4. We estimated free-field ground surface settlements and potential for lateral spreading during the  $MCE_G$  event.

The results of our study are as follows:

1. There are measurable differences in the strength of the soil between the northeast corner of the site (weakest soils) and the remainder of the site (competent soils). We recommend a Site Class of F based on the weakest soils. If the northeast corner is improved, then the site can be reclassified as Site Class D.
2. The recommended short-period and long-period design spectral accelerations of  $S_{DS} = 0.423g$  and  $S_{D1} = 0.104g$ , respectively.
3. The recommended design spectral accelerations for NYCBC Risk Category II result in a Seismic Design Category of C.
4. Using a peak ground acceleration (PGA) equal to the minimum required PGA by the 2022 NYCBC and data from the cone penetration tests (SCPT-6) performed at the site, we conclude that the site has potential for soil liquefaction for the  $MCE_G$  level of shaking. Our estimated free-field ground surface settlements are based on the NYCBC minimum required PGA, and the estimated liquefaction-induced vertical settlement is about 3.8 inches at the northeast corner of the site (SCPT-6) and less than  $\frac{1}{4}$  inch for the rest of the site. The foundation and utility design should account for 2-to-3-foot-thick liquefiable zones at depths of 18 ft to 40 ft below ground surface at the northeast corner of the site. Because the proposed structure will likely be pile-supported, utilities must be designed to account for differential settlements between the utility and the structure at the northeast corner of the site.

Our recommended design parameters are summarized in the table below:

<b>Design Parameter</b>	<b>Design Value</b>
Site Class	F
Spectral Acceleration at short periods, $S_{DS}$	0.423
Spectral Acceleration at 1-sec period, $S_{D1}$	0.104
Risk Category	II
Seismic Design Category, SDC	C

## **INTRODUCTION**

This report presents the results of our site-specific seismic study for the proposed development located at 145 Wolcott Street in Brooklyn, New York. Our study was performed to assess the seismic response of the ground at the project site and to determine appropriate seismic parameters for use in the design of the structure.

Analyses and recommendations presented here are in accordance with the requirements of the 2022 New York City Building Code and ASCE 7-16. All elevations contained here reference the North American Vertical Datum of 1988 (NAVD 88).

## **PROJECT OVERVIEW**

### **Site Description and Proposed Development**

The project site is located at 145 Wolcott Street in the Red Hook neighborhood of Brooklyn, New York, and is comprised of multiple parcels referenced as Block 574, Lots 1, 23, and 24 on New York City Tax Maps. The site has a total footprint of about 80,000 square feet and is generally bound by Wolcott Street to the north, Dikeman Street and multiple one-to-three-story buildings to the south, Ferris Street to the west, and Conover Street to the south. A site location map is presented in Figure 1.

The proposed development includes construction of a six-story studio facility with associated support and production spaces. We understand the building will be a steel framed structure with concrete foundations. The development includes one below-grade level that will primarily serve as vehicular parking. The ground floor slab is proposed at about el 18.75 ft. The cellar slab is at about el 8.25 ft. General excavation depths are anticipated to extend about 6.5 feet to 10.5 feet below existing grades.

### **Local Faults and Seismicity**

New York City is located on the Manhattan Prong, in the passive continental margin of the stable central and eastern United States, far from tectonic plate boundaries (approximately 1,400 miles from the nearest tectonic plate boundary). Seismicity in this region is overall low, with the exception of a few zones such as the New Madrid (Missouri) and Charleston, South Carolina seismic zones. The Manhattan Prong is relatively active compared to most of this region; the largest earthquake in the area was a magnitude mbLg 5.25 event offshore of New York City in 1884.

Many faults have been identified in the Manhattan Prong and the surrounding regions, but the locations of active faults are not clear (Sykes et al. 2008). There are difficulties in characterizing the

activity of faults in the region because of the small sizes of ruptures, the absence of surface rupture, and the distribution of seismicity on many smaller faults, each with very low displacement rates. Our seismic hazard assessment was based on the regional seismic activity and estimated earthquake magnitudes as employed in the 2018 U.S. Geologic Survey (USGS) seismic hazard model.

## **Subsurface Conditions**

Our understanding of the subsurface conditions at the site is based on: 1) geotechnical test borings with in situ testing and sampling of soil; 2) standard and seismic cone penetration testing; 3) our previous site-specific seismic studies from nearby projects; and 4) NYCDOT Seismic Design Guidelines for Bridges (NYCDOT 2016). Specifically, the investigations that formed the basis of our analyses included 21 geotechnical borings, seven seismic CPTs (SCPT), and laboratory testing. This data was supplemented with historical data from within and adjacent to the site prepared by others. A subsurface exploration plan is presented as Figure 2. A copy of the cone penetration test results is included in Appendix B.

The subsurface conditions observed within the borings and interpreted from the SCPTs generally consist of uncontrolled fill underlain by consecutive layers of loose silty/clayey sands, lenses of clay, dense sands extending to depth of 80 ft below ground surface. The layers observed within our site are further underlain by clays, dense sands, and gravels extending to bedrock at a depth of about 125 feet below grade. The information of the soil profile below the terminating depths of borings and SCPTs was based on measurements from a nearby project and on the NYCDOT Seismic Design Guidelines for Bridges (NYCDOT 2016).

Detailed descriptions of each subsurface stratum are presented in our Geotechnical Report.

## **SEISMIC EVALUATION**

We performed a site-specific seismic study to develop design acceleration response spectra for the site in accordance with the 2022 NYCBC. Our evaluation included:

1. Performing probabilistic seismic-hazard analyses to develop a target spectrum for the input motion at the base of the soil column;
2. Selecting and modifying acceleration time series to match the target spectrum;
3. Developing the geometry and low-strain shear modulus of representative soil columns for ground response analyses;
4. Determining the Site Class per the NYCBC;
5. Performing total-stress one-dimensional ground response analyses;

6. Evaluating the liquefaction potential for the granular soils situated below the groundwater table with site-specific peak ground acceleration ( $PGA_M$ ) and the NYC Building Code minimum required  $PGA_M$ ;
7. Recommending a design acceleration response spectrum; and,
8. Recommending the Site Class and Seismic Design Category.

Site-specific analyses are more rigorous than the general procedure outlined in the NYCBC. The general procedure typically does not accurately represent the amplitude and frequency content specific to an individual site. As such, a design acceleration response spectrum derived using the general procedures could be significantly conservative or unconservative.

We developed design acceleration response spectra specific to the proposed structure using state-of-practice methods and reflecting in-situ soil and bedrock conditions. Our evaluation was performed in accordance with the NYCBC Sections 1613 and 1803 and ASCE 7-16 (Chapters 11 and 21). The study included one-dimensional wave-propagation analyses to estimate the response at the site ground surface during a design seismic event.

The total-stress one-dimensional analyses were performed using the commercial computer program DEEPSOIL v7.0 (Hashash et al., 2020).

### **Probabilistic Seismic Hazard Analyses (PSHA)**

In order to account for uncertainties in the location and magnitude of future earthquakes, we performed probabilistic seismic-hazard analyses (PSHA). The PSHA result in a uniform hazard spectrum (UHS) plot of structural periods versus spectral accelerations with a common probability of exceedance over defined periods of time, typically 50 years.

As part of the development of the risk-targeted maximum considered earthquake ( $MCE_R$ ) spectrum at bedrock level, we performed a PSHA to develop a site-specific UHS for a 2 percent probability of exceedance in 50 years (2,475-year earthquake), for Latitude  $40.678^\circ$ , and Longitude  $-74.015^\circ$ . The bedrock spectrum was developed using the computer code NSHMP-HAZ (Powers, 2017). The approach used in NSHMP-HAZ is based on the probabilistic seismic-hazard model developed by Cornell (1968) and McGuire (1976).

### Source Modeling and Characterization

We used the Petersen et al. (2020) seismic source model with the same logic tree used for the production of the USGS 2018 maps.

### Empirical Ground Motion Models (GMMs)

The estimate of uniform hazard spectral accelerations at bedrock level is based on empirical GMMs, which use the shear-wave velocity in the upper 30 meters (100 feet) as input ( $V_{s30}$ ). We used the same weighting and the same empirical GMMs that were used in Petersen et al. (2020).

### Epistemic Uncertainty and Aleatory Variability

The term "epistemic uncertainty" is used to describe the uncertainty because of incomplete knowledge and data about the physics of the earthquake process. For example, there is uncertainty as to which GMM is more applicable for the site at hand. Similarly, the term "aleatory variability" is used to describe the randomness in the ground motion predicted by each GMM. The epistemic uncertainty is taken into account by using a suite of GMMs with different weights. All the different weight combinations are incorporated in the final hazard estimations by using a logic-tree approach (McGuire 2004). The aleatory variability is taken into account by explicitly considering the randomness (standard deviation) in the estimated ground motions.

### Probabilistic Seismic Hazard Analysis Results

The computed uniform hazard spectrum for 2 percent probability of exceedance in 50 years was:

1. based on the  $Rot_{D50}$  component of the GMMs,
2. adjusted for the  $Rot_{D100}$  component by multiplying with period-dependent amplification factors according to Haji-Soltani and Pezeshk (2018), and
3. further adjusted by using risk coefficients for the site to determine the risk-targeted maximum considered earthquake ( $MCE_R$ ) ground motion response accelerations. At each spectral response period, the uniform hazard bedrock response spectrum was multiplied by the risk coefficient  $C_R$  in accordance with Section 21.2.1.1 of ASCE 7-16 and using the USGS risk-targeted ground motion calculator<sup>1</sup>.

The bedrock site-specific  $MCE_R$  spectrum is shown on Figure 3. Digitized  $MCE_R$  values are listed in Table 1. The site-specific spectrum was calculated for Hard Rock (HR) conditions ( $V_{s30}=1,700$  meters per second) based on geophysical measurements at the same bedrock formation. The listed USGS values were calculated for Hard Rock conditions ( $V_{s30}$  of 1,500 meters per second), for comparison with our site-specific geometric mean values. The USGS values are based on the Uniform Hazard

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<sup>1</sup> <https://earthquake.usgs.gov/designmaps/rtgm/>



spectral accelerations from the USGS Earthquake Hazard Toolbox<sup>2</sup>, using the 2018 USGS NSHM Source model. The site-specific  $MCE_R$  values are close to the USGS Hard-Rock values.

**Table 1 – Bedrock Geometric-Mean (GM) and Risk-Targeted Maximum Considered Earthquake ( $MCE_R$ ) Spectrum SA (g) for 5 Percent Damping**

Structural Period T (sec)	Site-Specific SA(g) 2% PE in 50 yrs, ( $V_{s30}=1,700$ m/s) $ROT_{D50}$	USGS Deaggregation 2018 CEUS SA(g) $ROT_{D50}$ ( $V_{s30}=1,500$ m/s)	$Rot_{D100}/Rot_{D50}$ Haji-Soltani and Pezeshk (2018)	Risk Coefficients ASCE 7-16 Section 21.2.1.1 (Method 1)	Site-Specific SA(g), $MCE_R$ , ( $V_{s30}=1,700$ m/s)
0.01	0.195	0.196	1.187	0.95	0.222
0.10	0.307	0.327	1.187	0.94	0.344
0.20	0.210	0.213	1.187	0.94	0.238
0.30	0.145	0.147	1.202	0.94	0.166
0.40	0.109	0.111	1.213	0.94	0.125
0.50	0.088	0.088	1.221	0.93	0.101
0.75	0.058	0.059	1.236	0.93	0.067
1.0	0.042	0.042	1.247	0.93	0.048
1.50	0.026	0.026	1.262	0.93	0.029
2.00	0.018	0.018	1.273	0.92	0.021
3.00	0.010	0.010	1.262	0.92	0.012
4.00	0.007	0.007	1.252	0.91	0.008
5.00	0.005	0.005	1.252	0.91	0.006
7.50	0.003	0.003	1.252	0.91	0.003
10.00	0.002	0.002	1.252	0.91	0.002

### Seismic Hazard Deaggregation Results

We performed seismic hazard deaggregation to estimate the contribution of the various magnitude events at various distances to the total seismic hazard. The results are useful in identifying pairs of earthquake magnitude and source-to-site distances that contribute the most to the estimated seismic hazard, performing deterministic analyses, and developing different scenarios to be used in selecting acceleration time series.

For the peak ground acceleration (PGA), which is of interest for the soil liquefaction-potential analyses, the majority of the hazard for the maximum considered earthquake comes from small to

<sup>2</sup> <https://earthquake.usgs.gov/nshmp/>, Edition – Dynamic: NSHM Conterminous U.S. 2018

moderate magnitude earthquakes from the CEUS Grid Source<sup>3</sup>. The corresponding modal (most likely) moment magnitude and distance were calculated to be magnitude of 4.9 and a distance of 12.42 kilometers. The mean moment magnitude and distance were calculated to be 5.58 and 33.33 kilometers respectively.

### Input Acceleration Time Series

We selected 13 seed acceleration time series for use in our analyses following the guidelines of ASCE 7-16. All time series were recorded during earthquakes with similar magnitudes to the anticipated design events. All seed time series were modified to match the target bedrock MCE<sub>R</sub> spectrum (presented on Figure 3) using a time-domain spectral-matching routine (the RspMatch 2009 time-domain spectral matching code as documented in Al Atik And Abrahamson 2010).

**Table 2 – Seed Acceleration Time Series Used for Matching to the Target MCE<sub>R</sub> Rock Spectrum<sup>4</sup>**

No.	Earthquake and Year	NGA Sequence No.	Magnitude	Station Name	Closest Distance to Rupture (km)	Component	Target PGA/Orig. PGA
1, 2	Morgan Hill, 1984	455	6.19	Gilroy Array No.1	15	1230, 1320	3.2, 2.3
3, 4	Whittier Narrows, 1987	624	5.99	Huntington Beach	45	270, 360	4.9, 5.1
5	CA/Baja Border Area, 2002	2003	5.31	Calexico Fire Station	40	90	2.8
6, 7	Chi-Chi, Taiwan, 1999	2949	6.20	CHY033	13	E, N	3.6, 2.9
8, 9	Chi-Chi, Taiwan, 1999	2985	6.20	CHY094	91	N, W	3.0, 3.7
10, 11	Mineral, Virginia, 2011	8529	5.74	NP2555	124	N, E	5.5, 2.4
12,13	Mineral, Virginia, 2011	8571	5.74	SE NANPP	20	T, L	0.8, 2.0

<sup>3</sup> The modal event corresponds to the grid point source -74.019, 40.705 per the 2018 USGS source model.

<sup>4</sup> Information obtained from the NGA-West2 and the NGA-East Flatfile (<https://ngawest2.berkeley.edu/>)

## Representative Soil Columns

We developed one representative soil column based on the subsurface soil conditions. Our best-estimate shear wave velocities of the soil were based on the measured shear wave velocities from the SCPT soundings and from measurements in adjacent sites. We estimated the shear wave velocity of the rock to be at about 1,700 meters per second (about 5,577 feet per second) based on cross-hole data measurements in the same rock formation. The soil layers and shear wave velocities used in our study are listed in Table 3.

For the representative soil column, we used three different assumptions for shear wave velocities, an upper bound, lower bound and best estimate. Our best-estimate shear wave velocities for the soil column were based on the measured shear wave velocities from the SCPT soundings within the project site footprint. The best-estimate shear wave velocities for the soil and bedrock below the terminating depth of the SCPTs are based on the data from our nearby site (537 Columbia Street) and on the NYCDOT Seismic Design Guidelines for Bridges (NYCDOT 2016). The upper-bound shear wave velocities were calculated by uniformly increasing the best-estimate shear wave velocities by 20%. Similarly, the lower-bound shear wave velocities were calculated by uniformly decreasing the best-estimate shear wave velocities by 20%.

**Table 3 – Summary of Best-Estimate Soil Layer Thickness and Shear Wave Velocities**

Layer	Source	Layer Thickness (feet)	Measured Shear Wave Velocities (fps)	Best Estimate Shear Wave Velocities (fps)
Fill	SCPT 1	10	452-781	628
Upper Sand	SCPT 2a SCPT 3	7.5	452-781	628
Clay	SCPT 4 SCPT 5	12.5	538-1,163	875
Lower Sand	SCPT 6 SCPT 7a (145 Wolcott St)	50	468-1,713	986
Dense Silty Sand	Boring/SCPT (nearby Langan site)	40	NA	950
Sand/Gravel		5	NA	1500
Bedrock	BQE Atlantic Ave to Washington St (NYCDOT 2016)	NA	5,576	5,576

## Dynamic Soil and Bedrock Parameters

Dynamic soil and bedrock parameters are required for ground-response analyses. These parameters are:

- Small-strain shear modulus ( $G_{max}$ );
- Shear modulus degradation curve with increased shear strains (i.e.,  $G$ - $\gamma$  curve); and
- Soil damping curve with increased shear strains (i.e.,  $\beta$ - $\gamma$  curve).

The small-strain shear modulus was estimated from the shear wave velocities as listed in Table 3. The modulus degradation and damping curves were selected from published data for representative soil types; the following curves were used in our analyses:

- Fill – Darendeli (2001)
- Upper sand – Darendeli (2001)
- Clay – Darendeli (2001), PI=10
- Lower Sand – Darendeli (2001)
- Clay/Clayey Silt – Darendeli (2001), PI=20
- Sand/Gravel– Darendeli (2001)

## Site Class

The Site Class and associated NYCBC general-procedure design acceleration response spectrum are required to establish the minimum design response spectrum.

The weighted-average shear wave velocity  $V_{s30}$  was evaluated using Equation 16-48 of the NYCBC. The calculated  $V_{s30}$  ranged between about 820 to 1,082 fps based on the SCPT measured data. The representative Site Class is D without considering soil liquefaction. The analyses presented below showed that the final Site Class is F because of the potential of soil liquefaction at the northeast corner of the site when using the NYCBC minimum-required PGA.

## Total-Stress Ground Response Analyses

Total-stress ground-response analyses were performed using the selected bedrock acceleration time series and dynamic soil and bedrock properties described above, and accounting for the variable subsurface conditions documented within the site. All bedrock acceleration time series were applied as rock-outcrop motions in accordance with ASCE 7-16. We used DEEPSOIL's nonlinear, total stress analysis method, with the GQ/H soil model (Groholski et al. 2016) and the Non-Masing Re/Unloading hysteretic formulation (Phillips and Hashash, 2009). We note that the assumed soil model does not account for liquefied soil layers. However this is not a required feature

because the ground response analyses resulted in low PGA and sufficient margin of safety against soil liquefaction.

The 13 modified bedrock acceleration time series were assigned at the base of the soil column. Per Section 1613.3.4 of the NYCBC and Section 21.3 of ASCE 7-16, the ground surface calculated MCER spectra were multiplied by a factor of two-thirds to model the "Design Earthquake (DE)" spectra. An envelope of the average of 13 time series for each of the soil columns was used for final recommendations. The design acceleration-response spectra are plotted on Figure 4.

### **Analysis of Soil Liquefaction Potential**

The NYCBC (section 1816) requires an evaluation of the liquefaction potential of a) non-cohesive granular soils and b) clays, silts and clayey silts with a plasticity index less than 20, all below the groundwater table and to a depth of 60 feet below the ground surface. The potential for soil liquefaction was evaluated using the procedures outlined by Youd et al (2001). The Youd et al (2001) procedure uses an empirical relationship between the earthquake demand, represented by the Cyclic Stress Ratio (CSR), and the soil's resistance to dynamic loading, represented by Cyclic Resistance Ratio (CRR). The CSR is correlated to the Peak Ground Acceleration (PGA) of the design earthquake event and the in-situ soil stresses. The CRR is correlated to SPT N-values, or cone penetration testing (SCPT) resistance obtained from field tests at the site. The CSR and CRR are also discussed in the NYCBC section 1816.

#### Preliminary Assessment

According to Section 1816.2.1 of the NYCBC, the peak ground acceleration is determined based on either (1) a site-specific study taking into account soil amplification effects as specified in Section 11.4.8 of ASCE 7-16 or (2) the Maximum Considered Geometric Mean peak ground acceleration adjusted for Site Class effects ( $PGA_M$ ) as provided in Table 1816.2.1 of the NYCBC. Accordingly, we preliminarily used Site Class D PGA of 0.255g (from USGS<sup>5</sup> website per ASCE 7-16 for the site coordinates). Using the Youd et al. 2001 method of evaluating cyclic liquefaction potential, we developed plots of factor of safety with depth (ratio of CRR over CSR) using the SCPT data based on the following:

- a  $PGA_M$  of 0.255g,
- an earthquake magnitude of 5.6
- Youd et al. (2001) SCPT-based liquefaction triggering procedures, and
- The ground water table for each SCPT is estimated based on the data from nearby groundwater observation wells. Ground water table within in our project site is measured to be at about 7.7 ft to 12.7 ft below ground surface. Detailed measurements of ground water tables are presented in the geotechnical report.

The factor-of-safety against liquefaction plots using  $PGA_M = 0.255g$  showed that there are potentially liquefiable zones, which lead to the preliminary characterization of Site Class F, and the need for the present site-specific seismic study.

### Detailed Assessment

We then evaluated the liquefaction potential using the PGA according to NYCBC Section 1816.2.1 Option 1. We estimated the  $PGA_M$  using the results of the Site-Specific Seismic Analysis described herein and as allowed by NYCBC Sections 1613.3.3 and 1816.2 and ASCE 7-16 sections 11.4.8 and 21.1.3. More analytically:

- The site-specific  $PGA_R$  was 0.185g, as obtained from the average of the 39 soil amplification analyses, which reflect the risk-targeted maximum credible earthquake response. The site-specific geometric mean  $PGA_M$  was calculated to be 0.062g by dividing the  $PGA_R$  with the corresponding risk factor of 0.96 and the corresponding  $Rot_{D100}/Rot_{D50}$  factor of 1.187 (Haji-Soltani and Pezeshk, 2018)

$$PGA_M = \frac{0.185g}{0.96 * 1.187} = 0.162g$$

We then developed plots of factor of safety with depth (ratio of CRR over CSR – Appendix A) using the SCPT data and the following:

- a  $PGA_M$  of 0.162g,
- an earthquake magnitude of 5.6,
- Youd et al. (2001) SCPT-based liquefaction triggering procedures, and
- The ground water table for each SCPT is estimated based on the data from nearby groundwater observation wells. Ground water table within in our project site is measured to be at about 7.7 ft to 12.7 ft below ground surface. Detailed measurements of ground water tables are presented in the geotechnical report.

The factor-of-safety against liquefaction plots using  $PGA_M = 0.162g$  showed that there is sufficient margin of safety against soil liquefaction.

However, per Section 21.5.3 of ASCE 7-16, the site-specific  $MCE_G$  PGA shall not be taken as less than 80% of the general procedure  $PGA_M$ . The  $PGA_M$  using Site Class D is 0.255g. Accordingly, the code-required minimum is 0.204g (80% of 0.255g). The site-specific  $PGA_M$  of 0.162g is lower than the building code minimum required  $PGA_M$  of 0.204g. Therefore, the  $PGA_M$  used to develop recommendations regarding liquefaction susceptibility must be 0.204g. Accordingly, we developed plots of factor of safety with depth (Appendix A) using the SCPT data and the following:

- A  $PGA_M$  of 0.204g (80% of Site Class D  $PGA_M$ ),
- an earthquake magnitude of 5.6,

- Youd et al. (2001) SCPT-based liquefaction triggering procedures, and
- The ground water table for each SCPT is estimated based on the data from nearby groundwater observation wells. Ground water table within in our project site is measured to be at about 7.7 ft to 12.7 ft below ground surface. Detailed measurements of ground water tables are presented in the geotechnical report.

The factor-of-safety against liquefaction plots using  $PGA_M = 0.204g$  (presented in Appendix A) show that the northeast corner of the site is subject to liquefaction. As shown in Appendix A, in SCPT-6, the potentially liquefiable zone ranges from 18 ft to 40 ft below ground surface, and the thicknesses ranges from 0.2 ft to 2.5 ft. We recommend a classification of Site Class F. Our estimated free-field ground surface settlement is about 3.8 inches at the northeast corner of the site and less than  $\frac{1}{4}$  inch for the rest of the site. The foundation and utility design should account for several 2-to-3-foot-thick liquefiable zones at depths of 18 ft to 40 ft below ground surface. Because the proposed structure will likely be pile-supported, utilities must be designed to account for differential settlements between the utility and the structure. If the northeast corner is improved, then the site can be reclassified as Site Class D.

## **RECOMMENDATIONS**

### **Design Acceleration Response Spectrum**

Our design spectrum is based on the DEEPSOIL analyses. Figures 5 shows a plot of the DEEPSOIL design spectra and the 80 percent of the Site Class D design spectrum. The latter is the minimum spectrum allowed by ASCE 7-16 Section 21.3. The red diamonds show our recommended design acceleration response spectrum. Table 4 lists the recommended design spectral accelerations for the design earthquake event.

**Table 4 – Recommended Design Site-Specific Spectrum for 5% Damping Ratio**

<b>Period T (seconds)</b>	<b>Recommended Design Spectral Accelerations (g)</b>
0.000	0.096
0.063	0.423
0.200	0.423
0.269	0.322
0.530	0.307
0.568	0.262
0.684	0.211
0.825	0.177
1.000	0.104
1.200	0.063
>1.200	0.076/T

The recommended design spectrum satisfies the 2022 NYCBC and ASCE 7-16 requirements. Plots of the recommended design response spectra containing tables with the spectral ordinates is presented as Figure 6.

### Seismic Design Parameters $S_{DS}$ and $S_{D1}$

The  $S_{DS}$  and  $S_{D1}$  design accelerations per ASCE 7-16 section 21.4 are as follows:

- The  $S_{DS}$  is **0.423g**, taken as the maximum between:
  - The site-specific spectral acceleration at 0.2 seconds which is **0.423g**,
  - 90% of the maximum site-specific spectral acceleration, obtained from the site-specific spectrum at any period larger than 0.2 to 5 seconds, which is  
 $0.9 * 0.426g = 0.383g$
  - and 80% of the Class D general procedure spectral acceleration at a period of 0.2 seconds, which is  
 $0.8 * 0.299g = 0.239g$
- The  $S_{D1}$  is **0.104g**, taken as the maximum between:
  - The maximum value of the product,  $T * S_a$ , for periods from 1 to 5 s for sites with  $V_{s30} < 1,200$  ft/s, which is



$$0.994 * 0.104g = \mathbf{0.104g}$$

- o The site-specific spectral acceleration at 1.0 seconds which is **0.104g**,
- o and 80% of the Class D general procedure spectral acceleration at a period of 1.0 second, which is

$$0.8 * 0.095g = 0.076g$$

### Seismic Design Category

For Risk Category II, the recommended design spectral accelerations obtained from our site-specific analysis result in a Seismic Design Category C for the proposed structure, regardless of the structure's fundamental period of vibration.

### Summary

The results of the site-specific seismic study are listed in Table 5 below.

**Table 5 – Recommended Seismic Design Parameters**

Design Parameter	Design Value
Site Class	F
Spectral Acceleration at short periods, $S_{DS}$	0.423g
Spectral Acceleration at 1-sec period, $S_{D1}$	0.104g
Risk Category	II
Seismic Design Category, SDC	C

### LIMITATIONS

The conclusions and recommendations provided in this report are based partially on geotechnical investigations and subsurface data collected and reported by others. Langan makes no representation on the accuracy of the geotechnical data collected by others.

The seismic analyses reported herein are considered current state of practice in earthquake engineering. Research is ongoing to develop empirical GMMs, as well as review information related to the seismicity in the project region. Future research may prove counter to the assumed conditions. In addition, the subsurface conditions were inferred from a limited number of borings and SCPT soundings. The recommendations provided are dependent upon one another and no recommendation should be followed independent of the others.

Any proposed changes in structures or their locations should be brought to Langan's attention as soon as possible so that we can determine whether such changes affect our recommendations. Information pertaining to subsurface strata and groundwater levels is assumed to represent conditions reported only at the locations indicated and at the time of investigation. If different conditions are encountered during construction, they should immediately be brought to Langan's attention for evaluation, as they may affect our recommendations.

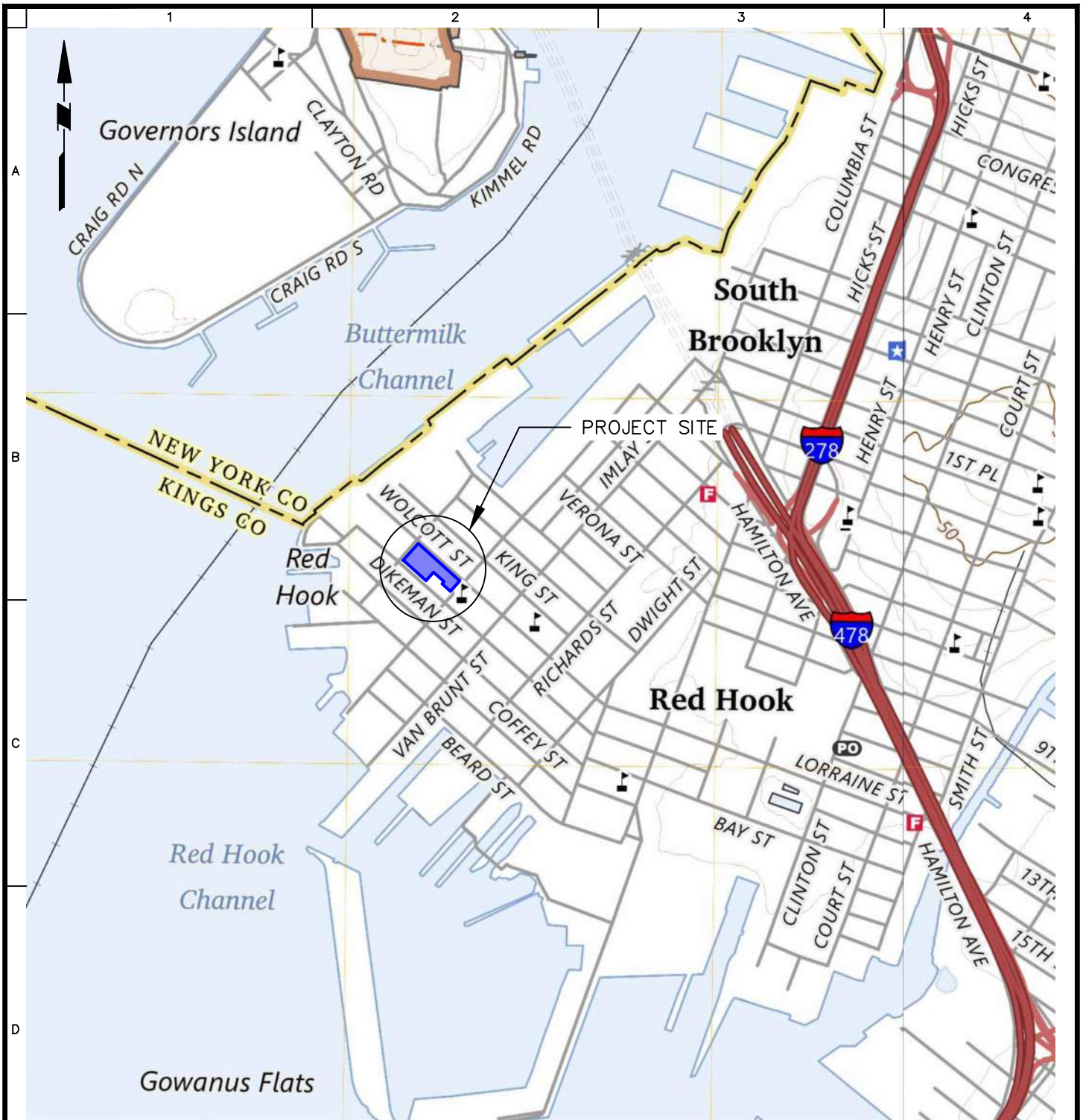
This report has been prepared to assist the Owner, architect and structural engineer in the design process and is only applicable to the design of the specific project identified. The information in this report cannot be utilized or depended on by engineers or contractors who are involved in evaluations or designs of facilities (including underpinning, grouting, stabilization, etc.) on adjacent properties which are beyond the limits of that which is the specific subject of this report.

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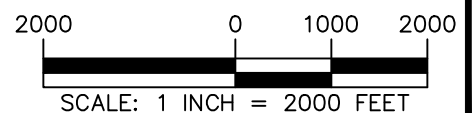
# FIGURES



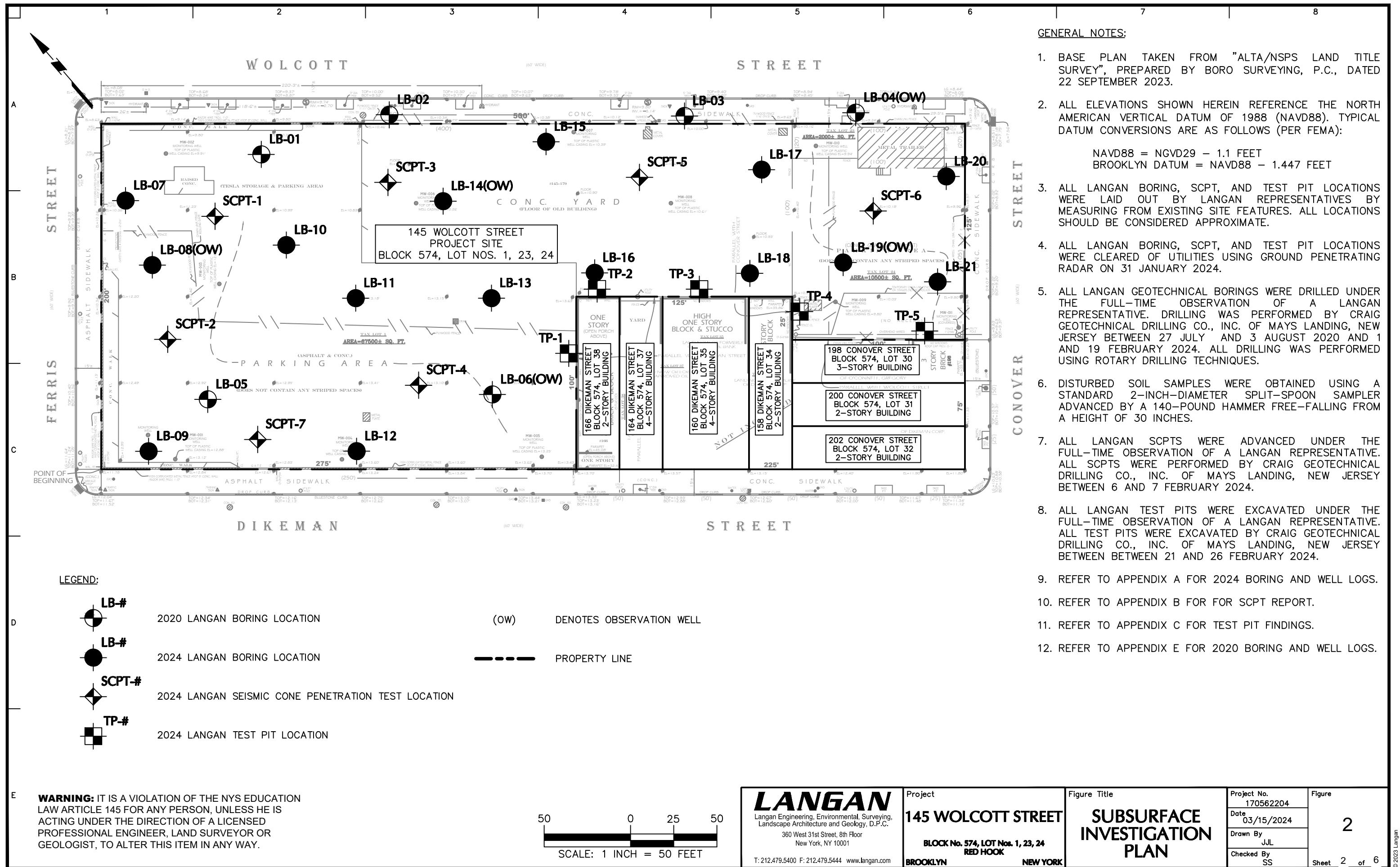
SOURCE: "JERSEY CITY QUADRANGLE, NEW YORK-NEW JERSEY 7.5-MINUTE SERIES" AND "BROOKLYN QUADRANGLE, NEW YORK 7.5-MINUTE SERIES", U.S. GEOLOGICAL SURVEY, 2023.

NOTE: ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

**WARNING:** IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, LAND SURVEYOR OR GEOLOGIST, TO ALTER THIS ITEM IN ANY WAY.



<p>Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com</p>	Project	Figure Title	Project No.	<p style="font-size: 2em; font-weight: bold;">1</p> <p>Sheet 1 of 6</p>
	<b>145 WOLCOTT STREET</b>	<b>SITE LOCATION PLAN</b>	170562204	
	BLOCK No. 574, LOT Nos. 1, 23, 24 RED HOOK		Date 03/15/2024	
	BROOKLYN NEW YORK		Drawn By JLL Checked By SS	

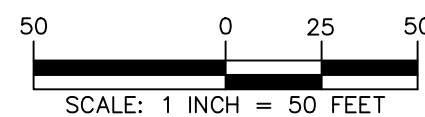


- GENERAL NOTES:**
1. BASE PLAN TAKEN FROM "ALTA/NSPS LAND TITLE SURVEY", PREPARED BY BORO SURVEYING, P.C., DATED 22 SEPTEMBER 2023.
  2. ALL ELEVATIONS SHOWN HEREIN REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). TYPICAL DATUM CONVERSIONS ARE AS FOLLOWS (PER FEMA):  
 NAVD88 = NGVD29 - 1.1 FEET  
 BROOKLYN DATUM = NAVD88 - 1.447 FEET
  3. ALL LANGAN BORING, SCPT, AND TEST PIT LOCATIONS WERE LAID OUT BY LANGAN REPRESENTATIVES BY MEASURING FROM EXISTING SITE FEATURES. ALL LOCATIONS SHOULD BE CONSIDERED APPROXIMATE.
  4. ALL LANGAN BORING, SCPT, AND TEST PIT LOCATIONS WERE CLEARED OF UTILITIES USING GROUND PENETRATING RADAR ON 31 JANUARY 2024.
  5. ALL LANGAN GEOTECHNICAL BORINGS WERE DRILLED UNDER THE FULL-TIME OBSERVATION OF A LANGAN REPRESENTATIVE. DRILLING WAS PERFORMED BY CRAIG GEOTECHNICAL DRILLING CO., INC. OF MAYS LANDING, NEW JERSEY BETWEEN 27 JULY AND 3 AUGUST 2020 AND 1 AND 19 FEBRUARY 2024. ALL DRILLING WAS PERFORMED USING ROTARY DRILLING TECHNIQUES.
  6. DISTURBED SOIL SAMPLES WERE OBTAINED USING A STANDARD 2-INCH-DIAMETER SPLIT-SPOON SAMPLER ADVANCED BY A 140-POUND HAMMER FREE-FALLING FROM A HEIGHT OF 30 INCHES.
  7. ALL LANGAN SCPTS WERE ADVANCED UNDER THE FULL-TIME OBSERVATION OF A LANGAN REPRESENTATIVE. ALL SCPTS WERE PERFORMED BY CRAIG GEOTECHNICAL DRILLING CO., INC. OF MAYS LANDING, NEW JERSEY BETWEEN 6 AND 7 FEBRUARY 2024.
  8. ALL LANGAN TEST PITS WERE EXCAVATED UNDER THE FULL-TIME OBSERVATION OF A LANGAN REPRESENTATIVE. ALL TEST PITS WERE EXCAVATED BY CRAIG GEOTECHNICAL DRILLING CO., INC. OF MAYS LANDING, NEW JERSEY BETWEEN 21 AND 26 FEBRUARY 2024.
  9. REFER TO APPENDIX A FOR 2024 BORING AND WELL LOGS.
  10. REFER TO APPENDIX B FOR SCPT REPORT.
  11. REFER TO APPENDIX C FOR TEST PIT FINDINGS.
  12. REFER TO APPENDIX E FOR 2020 BORING AND WELL LOGS.

**LEGEND:**

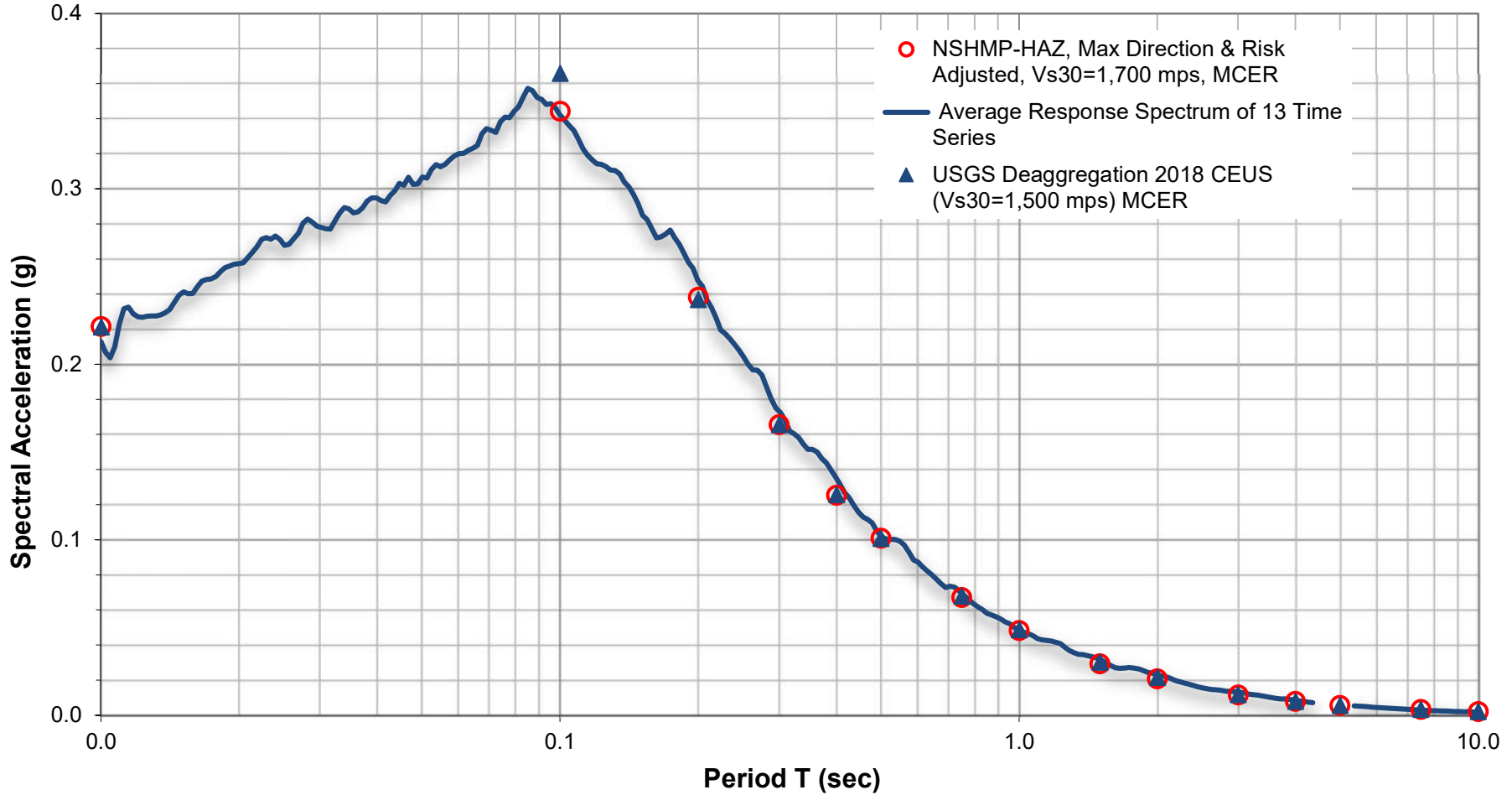
- LB-#** 2020 LANGAN BORING LOCATION
- LB-#** 2024 LANGAN BORING LOCATION
- SCPT-#** 2024 LANGAN SEISMIC CONE PENETRATION TEST LOCATION
- TP-#** 2024 LANGAN TEST PIT LOCATION
- (OW)** DENOTES OBSERVATION WELL
- PROPERTY LINE

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 Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.	Project	Figure Title	Project No.	Figure
	<b>145 WOLCOTT STREET</b> BLOCK No. 574, LOT Nos. 1, 23, 24 RED HOOK BROOKLYN NEW YORK	<b>SUBSURFACE INVESTIGATION PLAN</b>	170562204	2
T: 212.479.5400 F: 212.479.5444 www.langan.com	Date 03/15/2024 Drawn By JUL Checked By SS	Sheet 2 of 6		

### Bedrock Acceleration Response Spectra ( $\xi=5\%$ )



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 Langan Engineering, Environmental, Surveying and  
 Landscape Architecture, D.P.C.  
 Langan Engineering and Environmental Services, Inc.  
 Langan, C.T., Inc.  
 Langan International LLC  
 Collectively known as Langan

Project

145 WOLCOTT STREET

BLOCK NO. 574, LOT NOS. 1, 23, 24 RED HOOK

BROOKLYN

NEW YORK

Drawing Title

1D SITE-SPECIFIC  
 RESPONSE SPECTRA  
 EAST PLATFORM ZONE  
 RESULTS

Project No.

170562204

Date

4/2/2024

Scale

As shown

Drawn By

AB

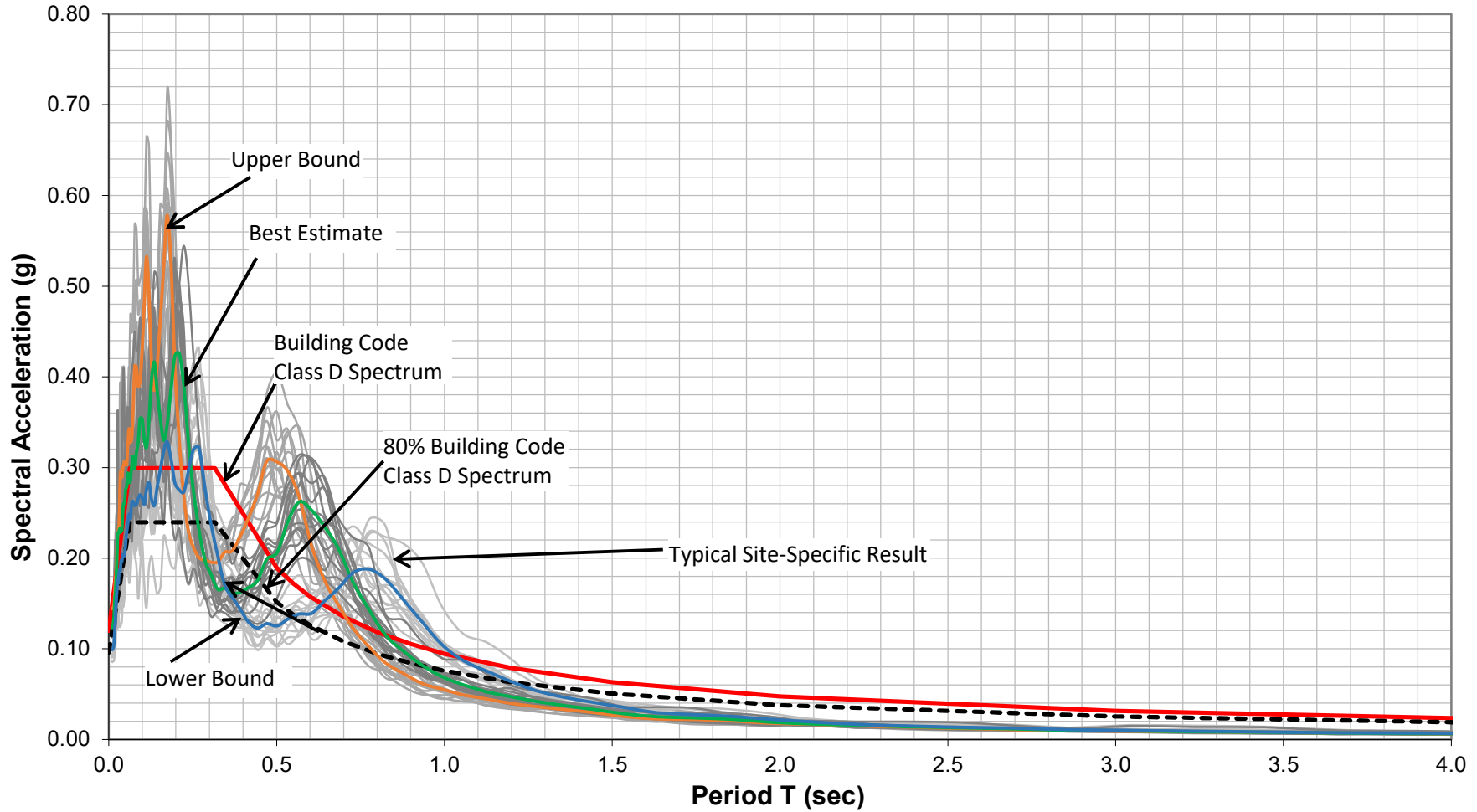
Drawing No.

3

Sheet 3 of 6



### Ground Surface Design Acceleration Response Spectra ( $\xi=5\%$ )



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Project

145 WOLCOTT STREET

BLOCK NO. 574, LOT NOS. 1, 23, 24 RED HOOK

BROOKLYN

Drawing Title

1D SITE-SPECIFIC  
RESPONSE SPECTRA  
EAST PLATFORM ZONE  
RESULTS

NEW YORK

Project No.

170562204

Date

4/2/2024

Scale

As shown

Drawn By

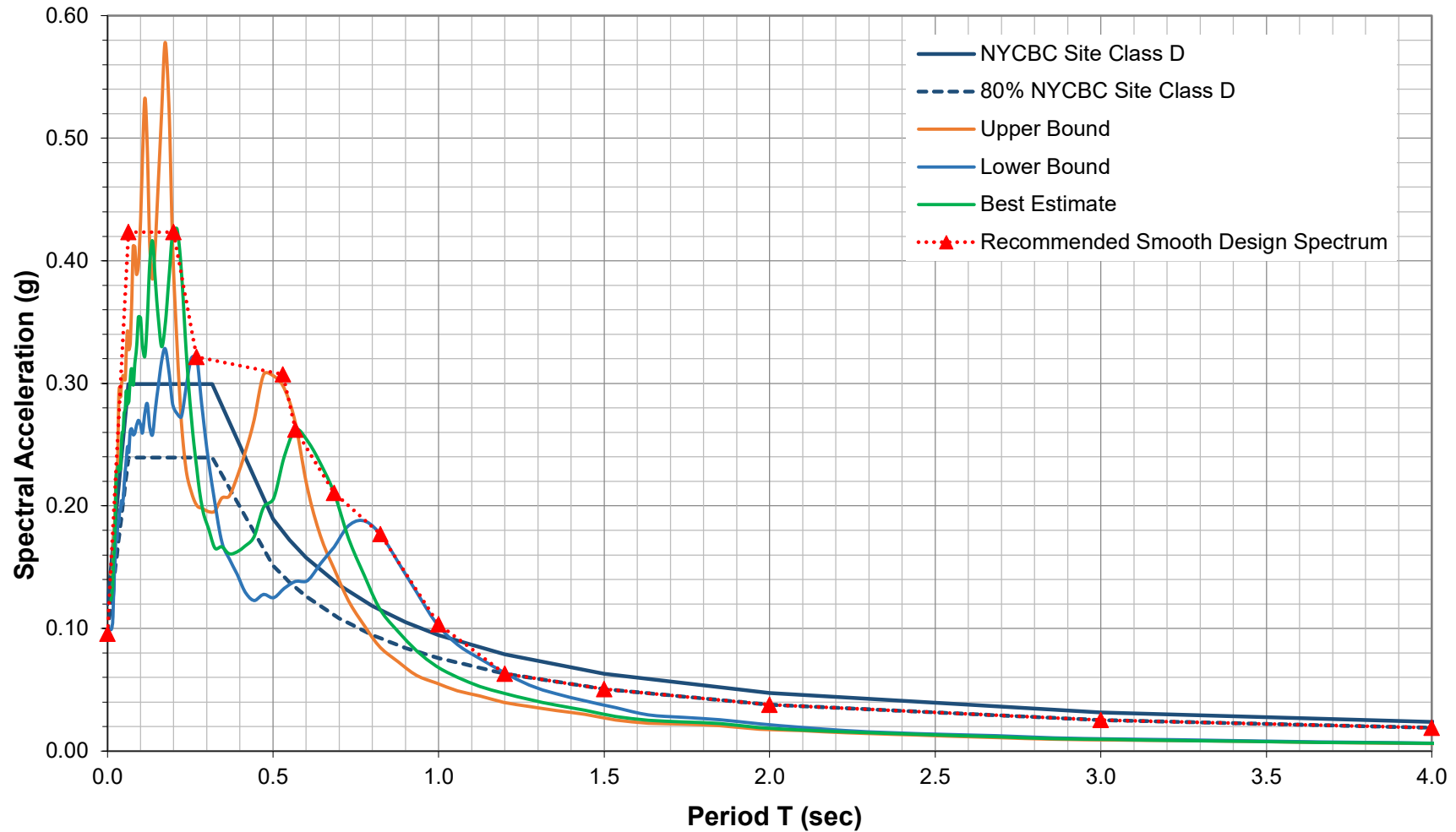
AB

Figure No.

**4**

Sheet 4 of 6

### Ground Surface Design Acceleration Response Spectra ( $\xi=5\%$ )



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Project

145 WOLCOTT STREET

BLOCK NO. 574, LOT NOS. 1, 23, 24 RED HOOK

BROOKLYN

Drawing Title

SITE-SPECIFIC DESIGN  
RESPONSE SPECTRA  
EAST PLATFORM ZONE

NEW YORK

Project No.

170562204

Date

4/2/2024

Scale

As shown

Drawn By

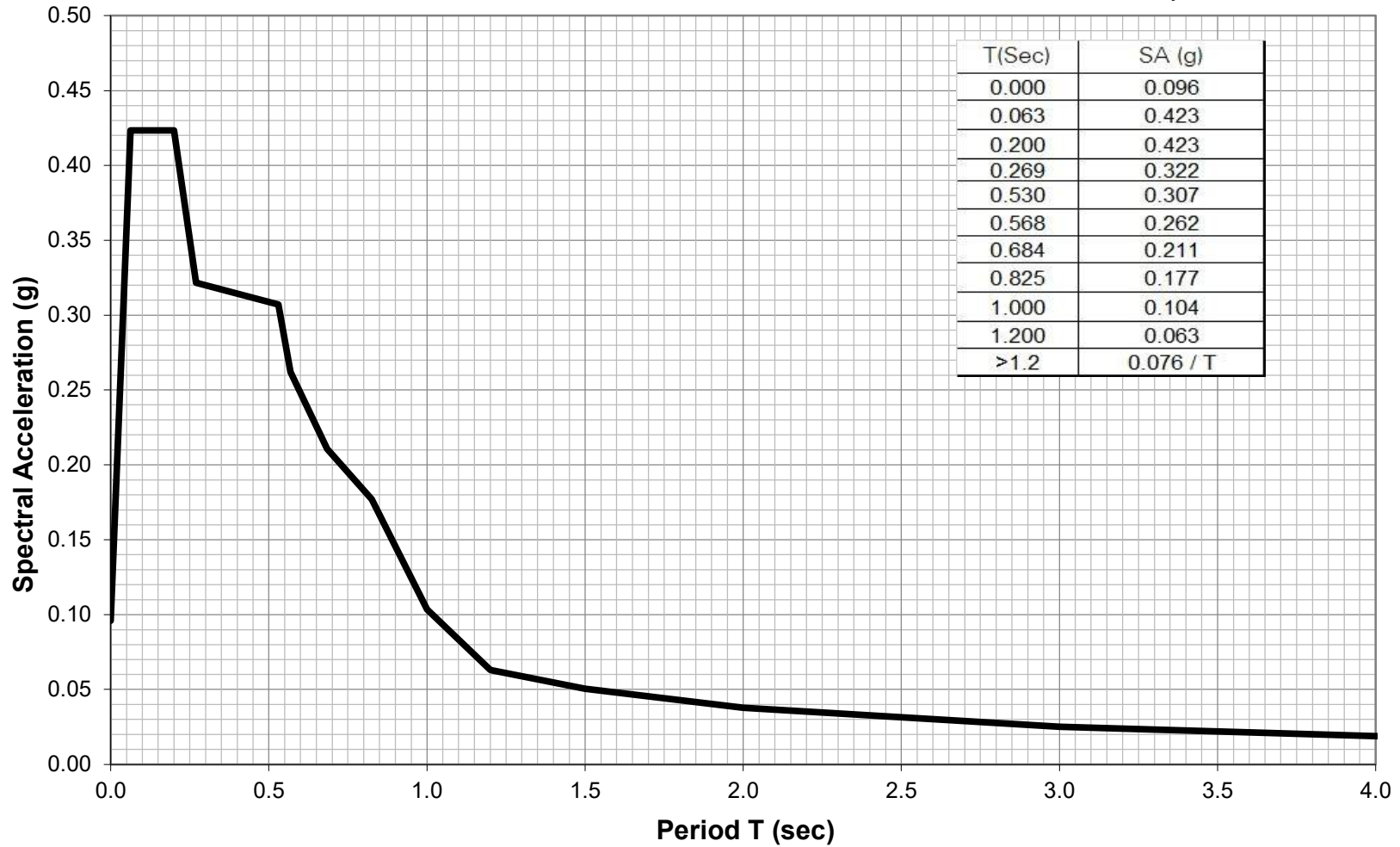
AB

Figure No.

5

Sheet 5 of 6

### Recommended Surface Design Acceleration Response Spectrum ( $\xi=5\%$ )



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Project

145 WOLCOTT STREET

BLOCK NO. 574, LOT NOS. 1, 23, 24 RED HOOK

BROOKLYN

NEW YORK

Drawing Title

RECOMMENDED SITE-  
SPECIFIC DESIGN  
RESPONSE SPECTRUM  
EAST PLATFORM ZONE

Project No.

170562204

Date

4/2/2024

Scale

As shown

Drawn By

AB

Figure No.

6

Sheet 6 of 6

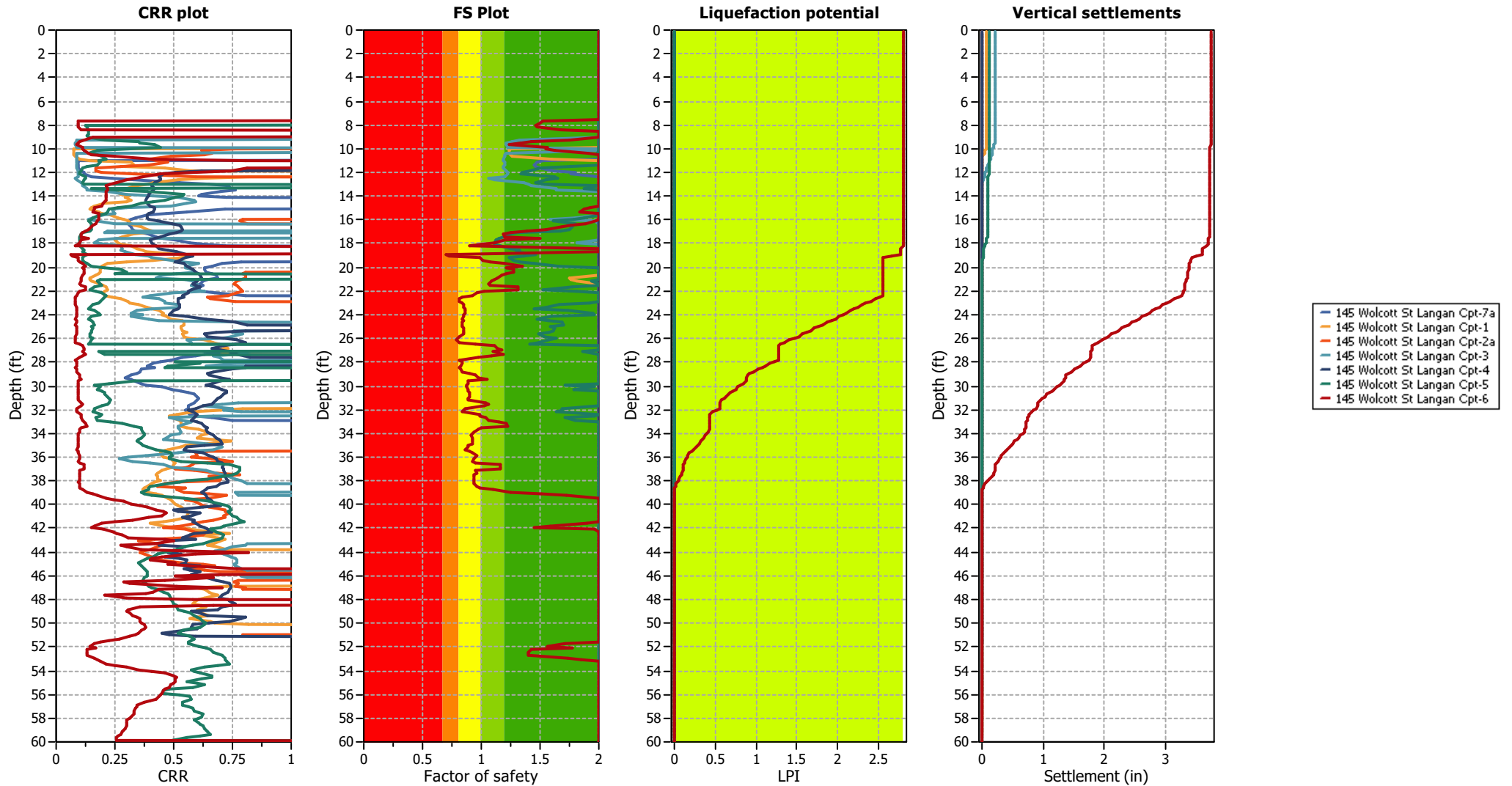
# **APPENDIX A**

## **LIQUEFACTION ASSESSMENT USING SCPT DATA**



Project:

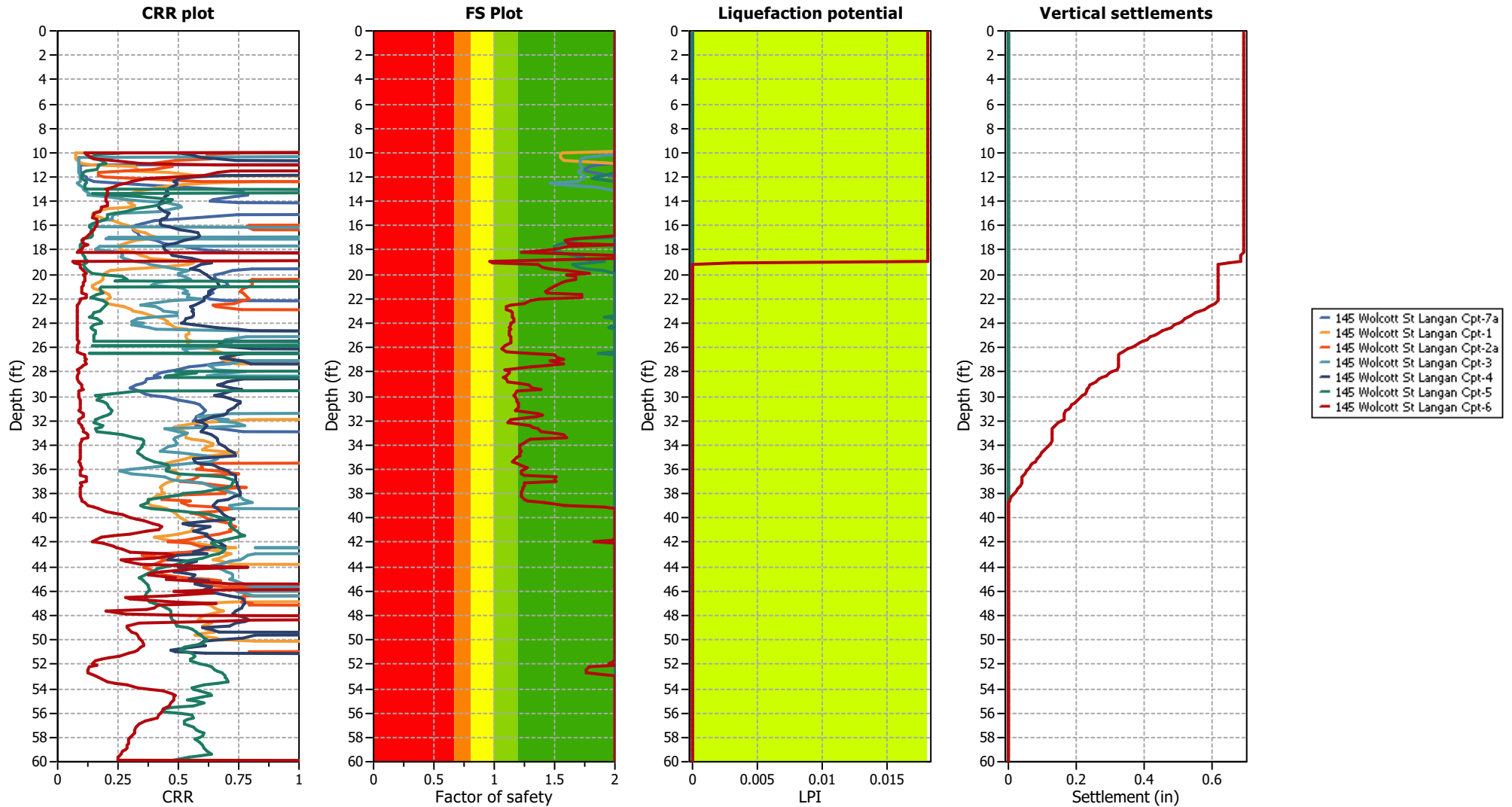
### Overlay Cyclic Liquefaction Plots





Project:

### Overlay Cyclic Liquefaction Plots



# **APPENDIX B**

## **CONE PENETRATION TESTS DATA REPORT**

**PRESENTATION OF SITE INVESTIGATION RESULTS**

**145 Wolcott Street  
Brooklyn NY**

*Prepared for:*  
**Langan**



*Prepared by:*

**Craig Geotechnical Drilling Co., Inc.  
PO Box 427  
Mays Landing NJ 08330**

**Tel: 609-625-4862  
Fax: 609-625-4306**

**Email: [Kcraig@craigtest.com](mailto:Kcraig@craigtest.com)  
[www.craigtest.com](http://www.craigtest.com)**





## Introduction

The enclosed report presents the results of piezocone penetration testing (CPTu or CPT) program carried out at 145 Wolcott St, Brooklyn NY. The site investigation was conducted by Craig Geotechnical Drilling Co., Inc. under contract to Langan.

The CPT program was performed to evaluate the subsurface soil conditions. CPT sounding locations were selected and numbered under the supervision of Langan personnel.

## Project Information

Project	
Client:	Langan
Project:	145 Wolcott St, Brooklyn NY
Job Number:	235276
Investigation Date:	2/6/24 – 2/7/24

Rig Description	Deployment System	Test Type
CPT Truck Rig	20 Ton Truck (Twin Cylinders)	CPT & SCPT

Cone Penetration Test (CPT)	
Depth Reference	Ground Surface at the time of the investigation.
Seismic Shear Wave Velocity	

## Limitations

This report has been prepared for the exclusive use of Langan for the project titles “145 Wolcott St, Brooklyn NY”. The report’s contents may not be relied upon by any other party without the express written permission of Craig Geotechnical Drilling Co., Inc.. CGD has provided site investigation services, prepared the factual data reporting, and provided geotechnical parameter calculations consistent with current best practices. No other warranty, expressed or implied, is made.

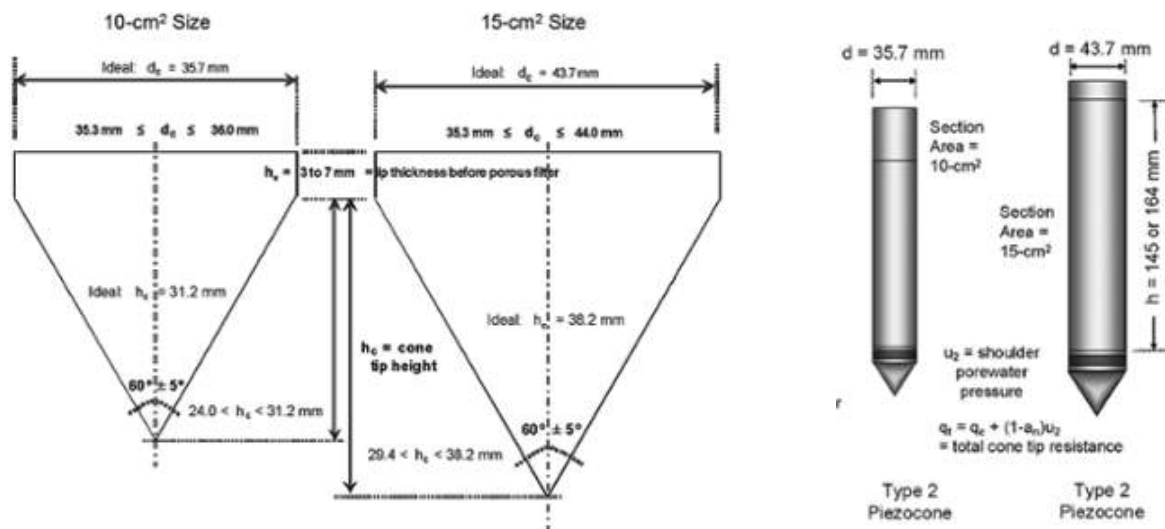
The information presented in the report document and the accompanying data set pertain to the specific project, site conditions and objectives described to Craig Geotechnical Drilling by the client. In order to properly understand the factual data, assumptions and calculations, reference must be made to the documents provided and their accompanying data sets, in their entirety.

## CPT Cones



Cone Penetration tests (CPTu) are conducted using an integrated electronic piezocone penetrometer and data acquisition system manufactured by Vertek of Randolph, VT 05060.

CPT cones are available in multiple sizes, but the 10 cm<sup>2</sup> cone and 15 cm<sup>2</sup> cone are the industry standard. Penetrometers are made of high strength steel and designed to resist abrasion by soil. The **15 cm<sup>2</sup> cone** was used on this project.



### Minimum and Maximum Cone Measurements

Cone Size (Cross-Sectional Area)	10 cm <sup>2</sup>			15 cm <sup>2</sup>		
	Min	Ideal	Max	Min	Ideal	Max
<i>Measurement</i>						
Cone Diameter ( $d_c$ )	35.3 mm	35.7 mm	36.0 mm	35.3 mm	43.7 mm	44.0 mm
Cone Tip Height ( $h_c$ )	24.0 mm	31.2 mm	31.2 mm	29.4 mm	38.2 mm	38.2 mm
Cone Tip Angle	55°	60°	65°	55°	60°	65°
Lip Thickness Before Porous Filter ( $h_e$ )	3 mm	N/A	7 mm	3 mm	N/A	7 mm
Friction Sleeve Diameter	35.7 mm	35.7 mm	36.05 mm	43.7 mm	43.7 mm	44.05 mm
Friction Sleeve Surface Area	147 cm <sup>2</sup>	150 cm <sup>2</sup>	153 cm <sup>2</sup>	220.5 cm <sup>2</sup>	225 cm <sup>2</sup>	229.5 cm <sup>2</sup>



### Cone Penetration Tests

Prior to the start of a CPTu sounding a suitable cone is selected, the cone and data acquisition system are powered on, the pore pressure system is saturated with silicone oil and the baseline readings are recorded with the cone hanging freely in a vertical position. The CPTu is conducted at a steady rate of 2 cm/s, within acceptable tolerances. Typically, one-meter length rods with an outer diameter of 15cm are added to advance the cone to the sounding termination depth. After cone retraction final baselines are recorded.

### Dissipation Tests

As a CPT cone is pushed into saturated subsurface soil, it creates a localized increase in pore pressure (denoted excess pore pressure,  $u_i$ ) as groundwater is pushed out of the way of the cone. In a pore pressure dissipation test, the downward movement of the cone is paused and the time it takes for the pore pressure to stabilize is measured. This stable pore pressure is called equilibrium pore pressure,  $u_o$ . This information allows the user to identify important hydrogeologic features:

The water table (or phreatic surface) depth is defined as the distance below the soil surface at which pore pressure is equal to atmospheric pressure. This can be roughly visualized as the level below which subsurface materials are fully saturated with groundwater.

Especially in fine-grained soils, estimating the water table can be more complex than simply detecting moisture, since surface tension draws groundwater upwards, creating negative pore pressures. This effect is called capillary rise.

Very low or negative pressures can be difficult to measure precisely with the piezocone, which is primarily designed to measure high pressures below the water table. In this case, the water table depth can be calculated by the following formula:

$$d_{water} = d_{cone} - h_w$$

$d_{water}$  = water table depth

$d_{cone}$  = depth of piezocone

$h_w$  = water head

The **water head**,  $h_w$ , is the height of the water above the cone, which can be calculated based on the pore pressure and the unit weight of water:

$$h_w = u/\gamma_w + z$$

$h_w$  = water head

$u_o$  = equilibrium pore pressure

$\gamma_w$  = unit weight of water

$z$  = distance, if any, between pressure sensor location and depth reference point on the piezocone



The rate of dissipation indicates the permeability or hydraulic conductivity of the soil – that is, the tendency of the soil to allow or resist the flow of groundwater.

A rapidly dissipating pore pressure indicates the presence of an aquifer (a porous region where groundwater tends to flow), while a slowly dissipating pore pressure indicates an aquitard (a compacted region that resists the flow of groundwater).

### Seismic CPTs

Seismic CPT or SCPT is a method of calculating the *small strain shear modulus* of the soil by measuring shear wave velocity through the soil. The small strain modulus is an important quantity for determining the *dynamic response* of soil during earthquakes, explosive detonations, vibrations from machinery, and during wave loading for offshore structures. The wave speeds and moduli derived from seismic CPT measurements aid in the determination of *soil liquefaction potential* and improve the interpretation of surface seismic surveys by *providing wave speed profiles as a function of depth*.

**SCPT Cone:** The SCPT cone is a CPT or CPTU cone that is equipped with one or more geophone sensors. These sensors measure the magnitude and arrival time of seismic shear and compression waves.

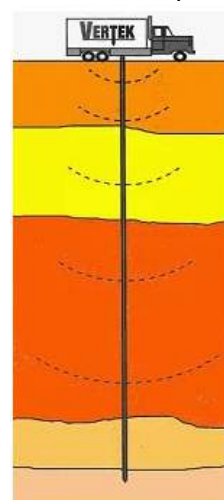
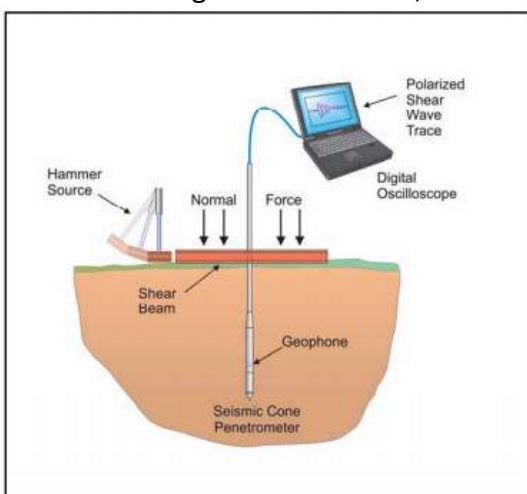
**Wave Generator:** Seismic shear waves are generated at the soil surface.

This method uses an electronic wave generator attached to the CPT rig and increases repeatability and reduces physical strain and testing time for the field team.

The CPT test must be paused briefly at the desired intervals to perform the wave generation and data collection.

**Data Acquisition System:** As seismic waves are registered by the geophone sensors, data is transferred from the cone to the soil surface by wires that run through the push rods. The SCPT data acquisition system logs this data and analyzes it to determine the speed of the waves based on their arrival time and the distance between the wave generator and the sensors.

Calculation of the interval velocities are performed by visually picking a common feature (e.g. the first characteristic peak, trough, or crossover) on all of the recorded wave sets and taking the difference in ray path divided by the time difference between subsequent features. Ray path is defined as the straight-line distance from the seismic source to the geophone, accounting for beam offset, source depth and geophone offset from the cone tip.

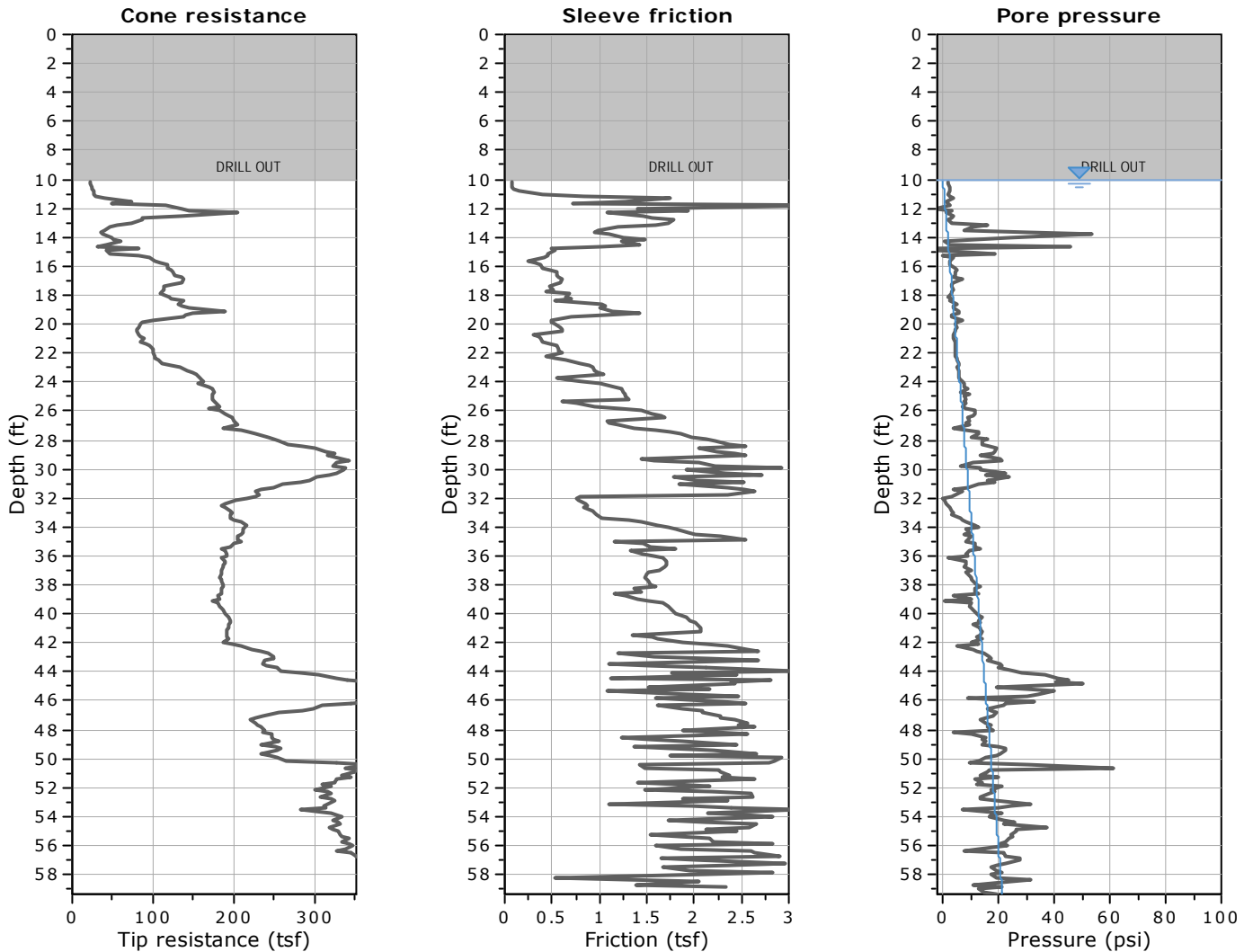


## Cone Penetration Test Summary and Cone Penetration Test Plots



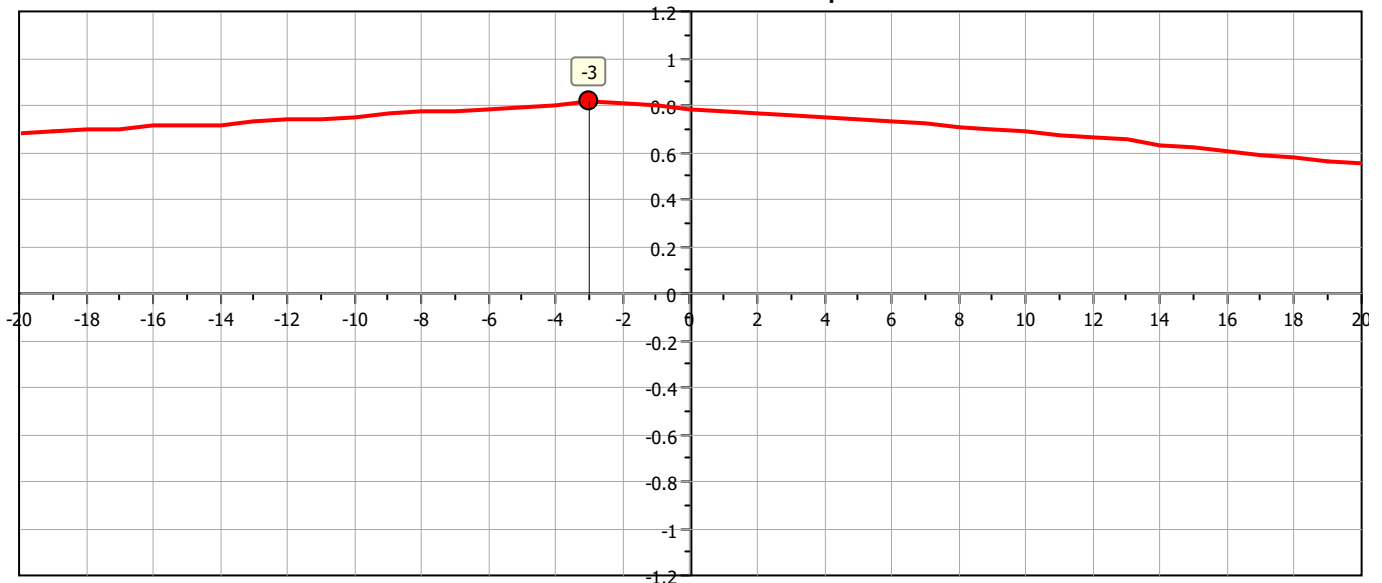
Sounding ID	Depth (ft)	Seismic Tests	Pre-Drill Depth (ft)
CPT-1	59.35	17	10
CPT-2a	58.04	17	10
CPT-3	55.87	16	10
CPT-4	51.77	15	10
CPT-5	78.74	20	10
CPT-6	70.67	20	10
CPT-7	11.68		10
CPT-7a	35.01	8	10





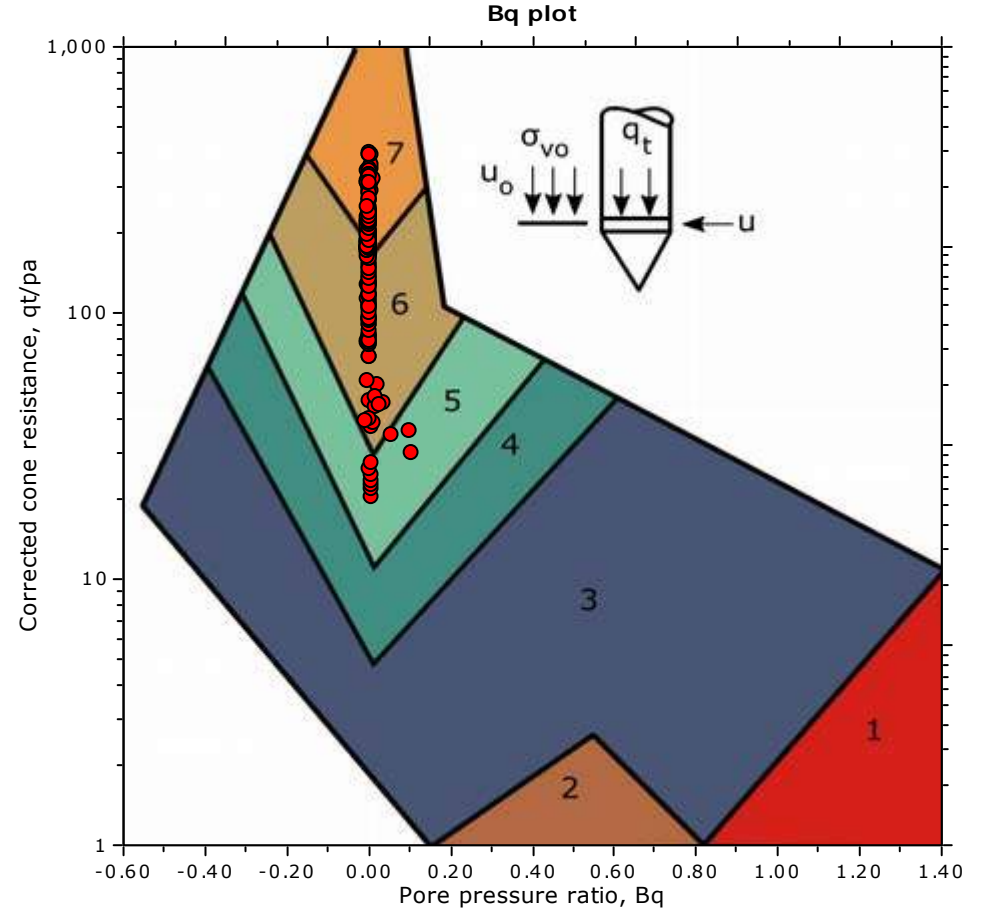
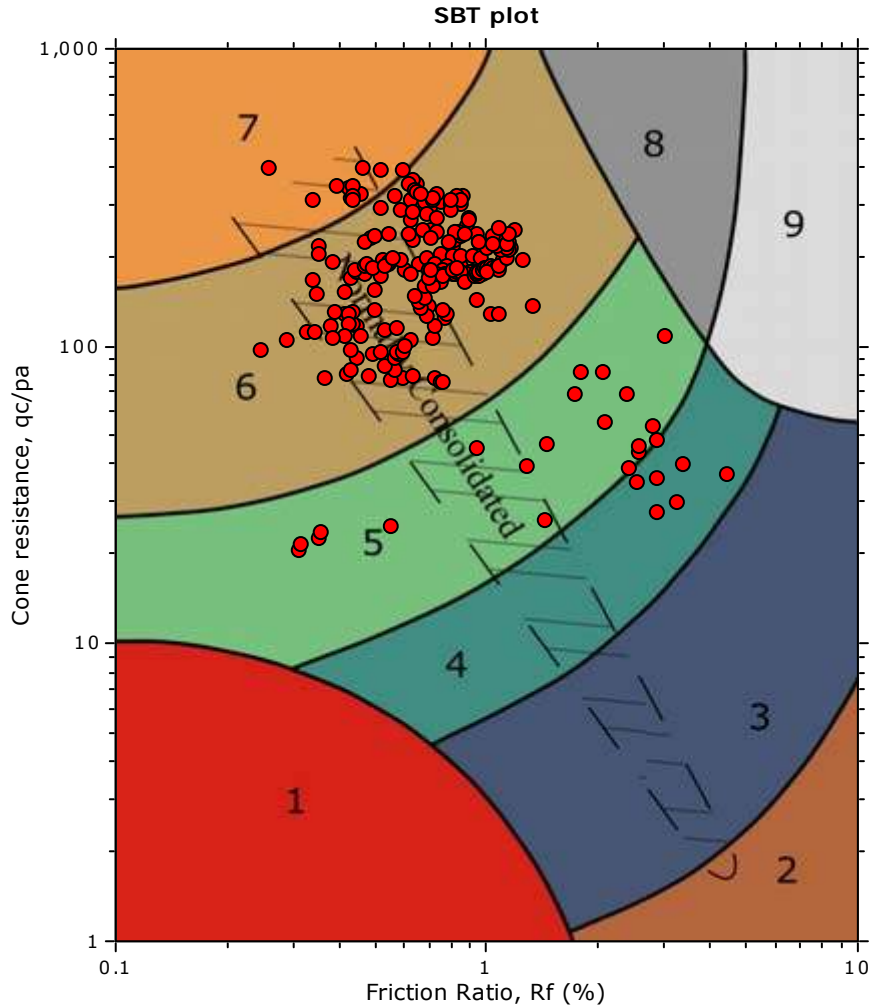
The plot below presents the cross correlation coefficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two successive CPT measurements).

Cross correlation between qc & fs





### SBT - Bq plots



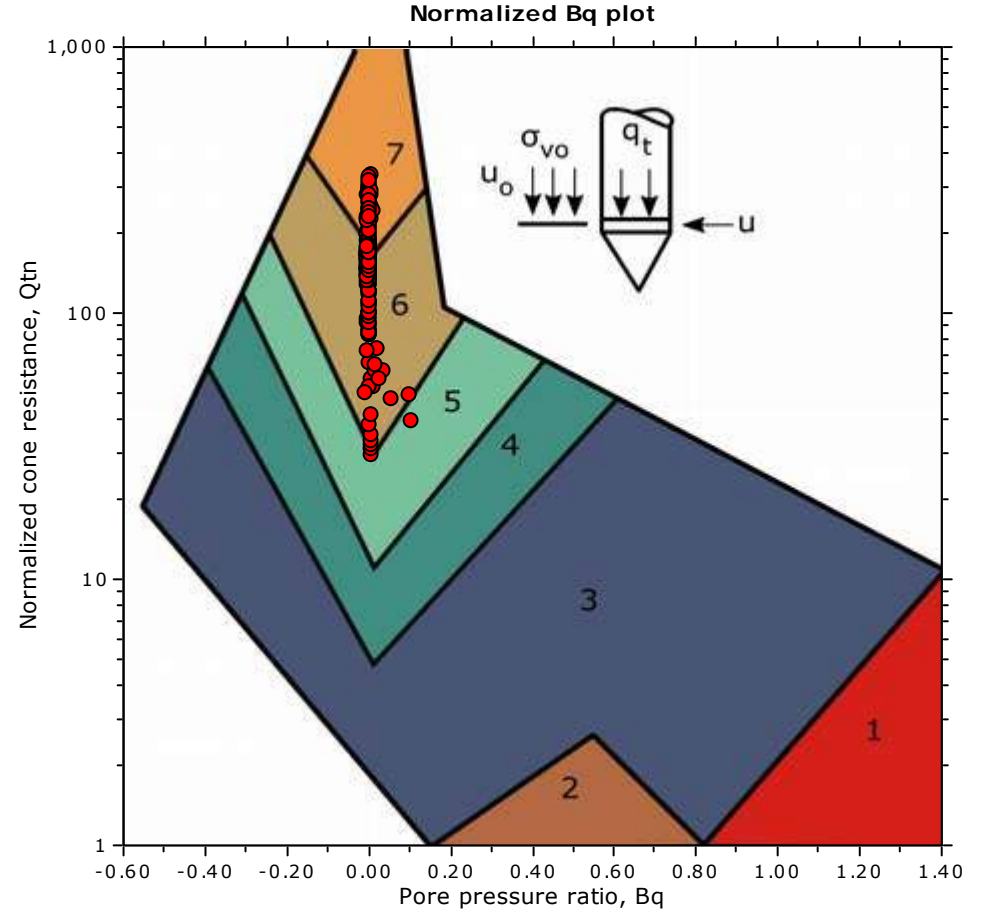
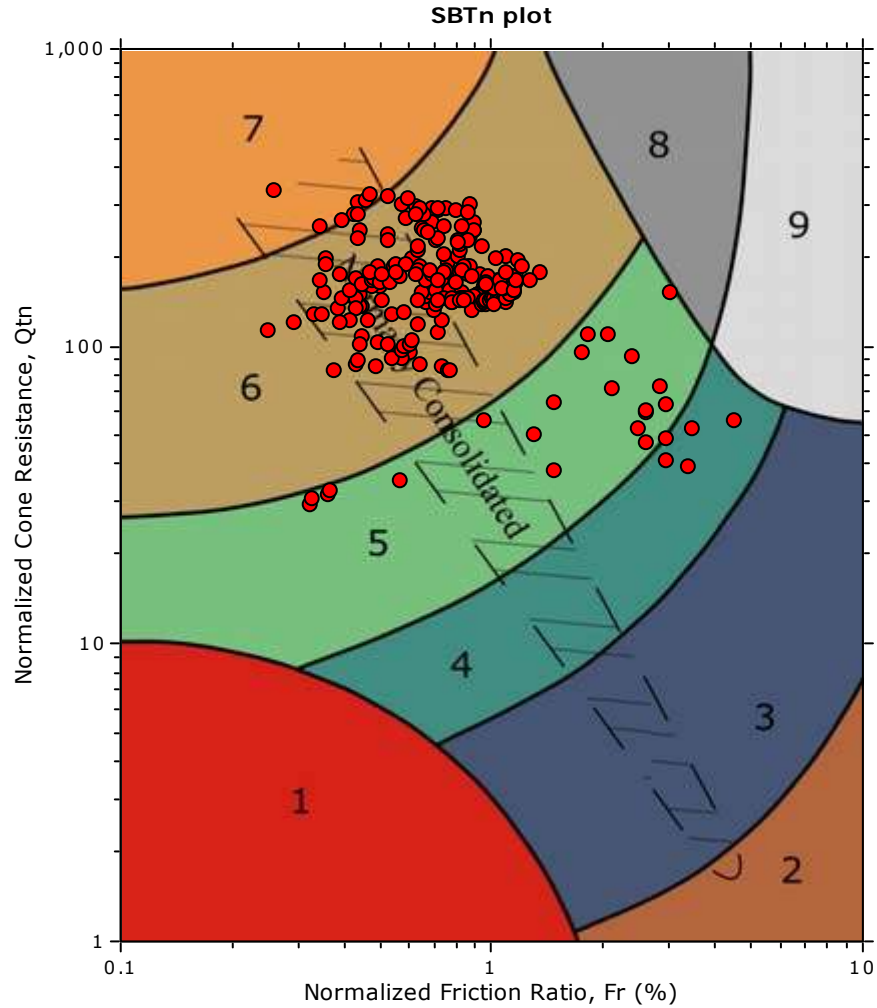
#### SBT legend

- |                           |                              |                                   |
|---------------------------|------------------------------|-----------------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty clay | 7. Gravelly sand to sand          |
| 2. Organic material       | 5. Silty sand to sandy silt  | 8. Very stiff sand to clayey sand |
| 3. Clay to silty clay     | 6. Clean sand to silty sand  | 9. Very stiff fine grained        |





**SBT - Bq plots (normalized)**

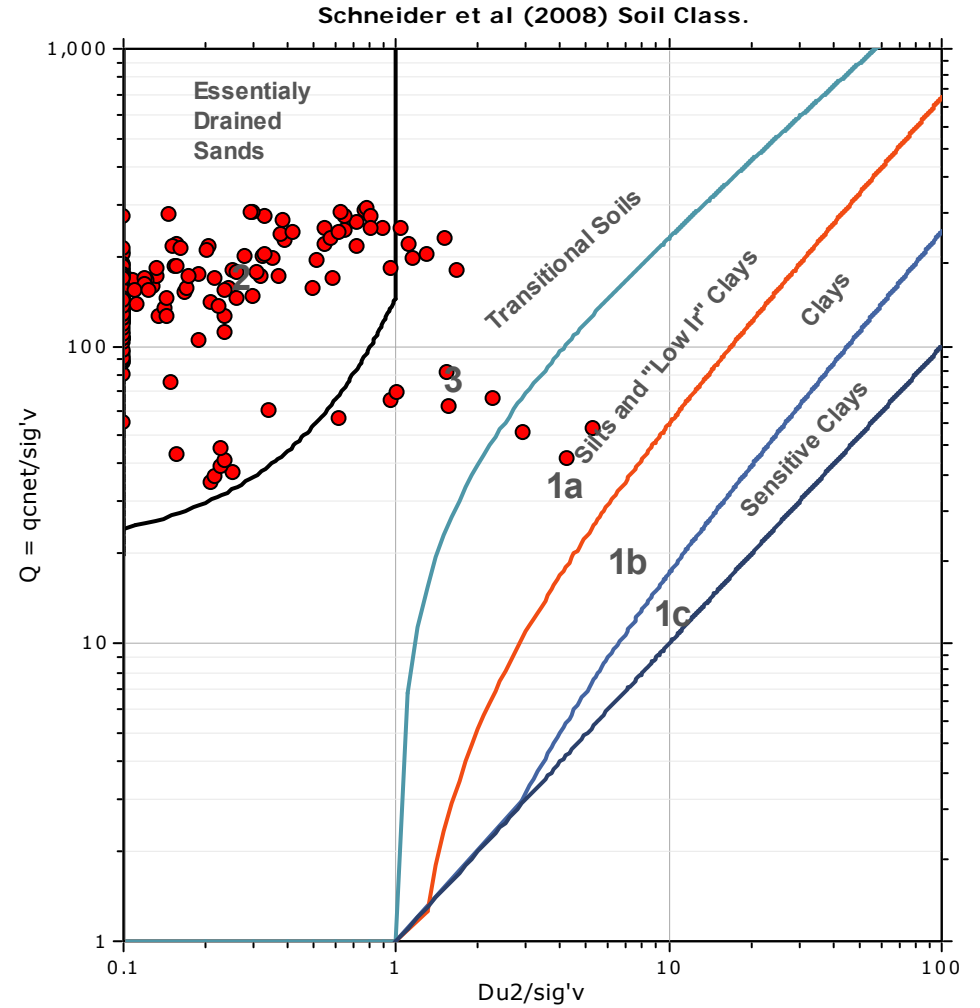
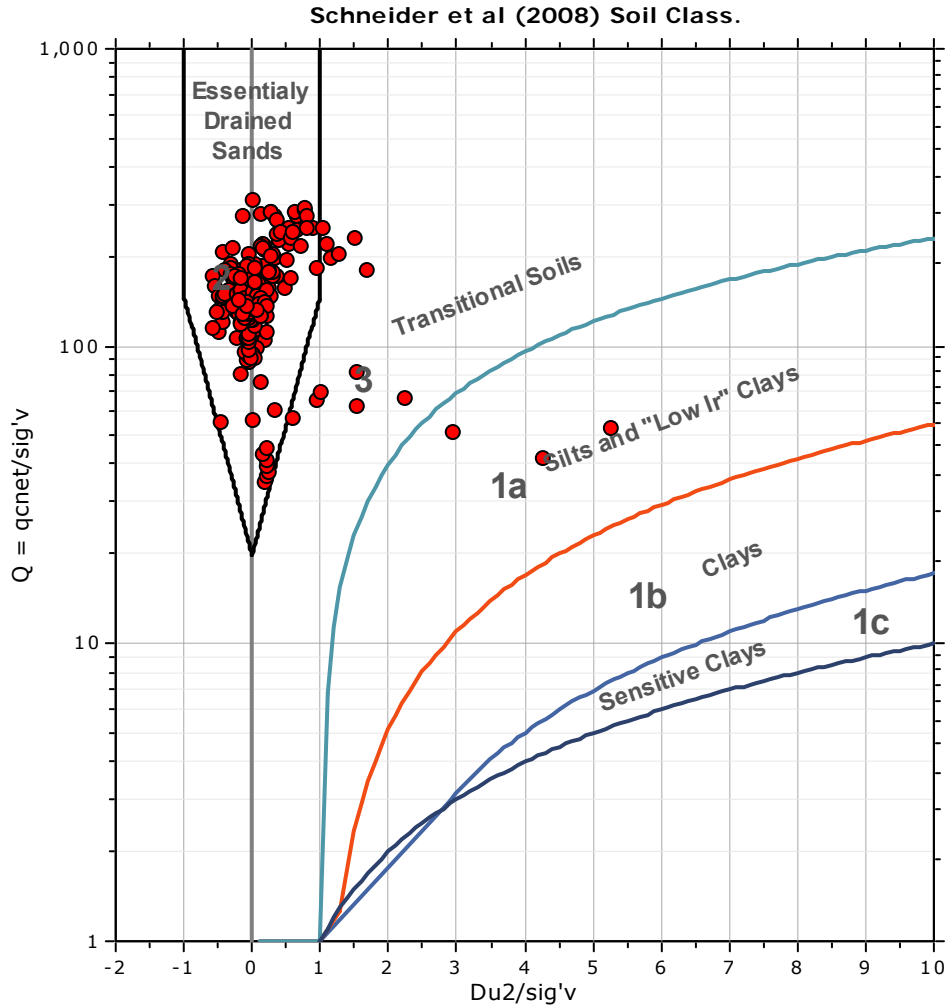


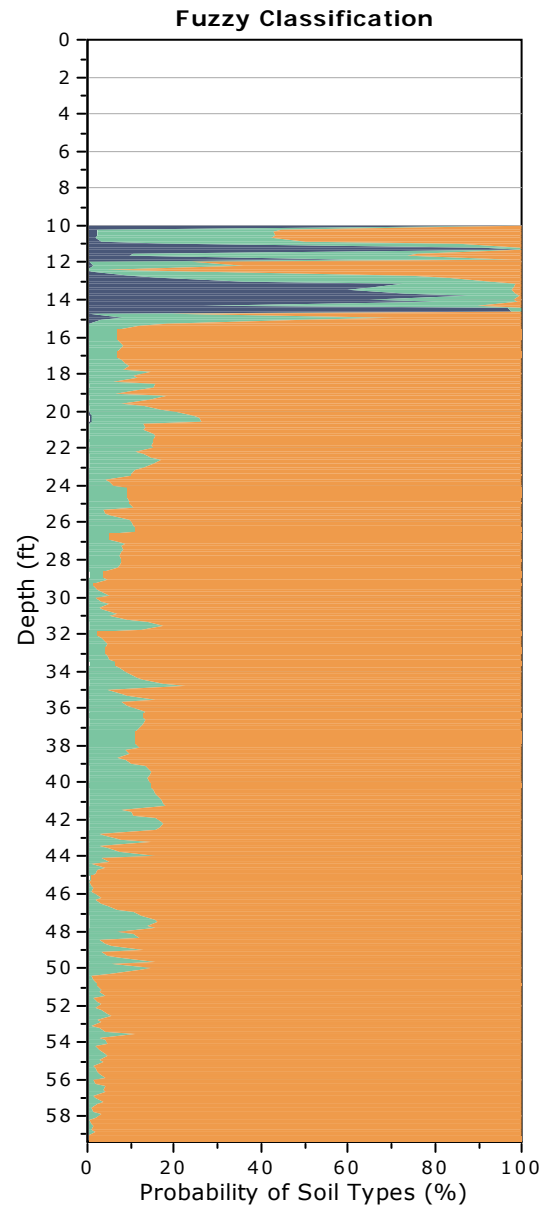
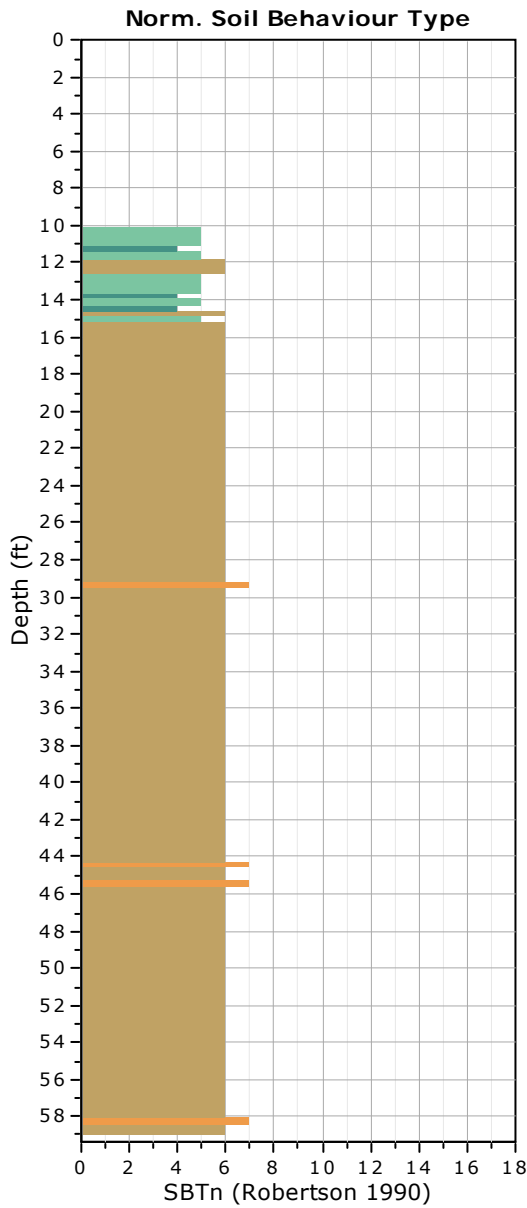
**SBTn legend**

- |                                                              |                                                                       |                                                                       |
|--------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| <span style="color: red;">■</span> 1. Sensitive fine grained | <span style="color: teal;">■</span> 4. Clayey silt to silty clay      | <span style="color: orange;">■</span> 7. Gravelly sand to sand        |
| <span style="color: brown;">■</span> 2. Organic material     | <span style="color: lightgreen;">■</span> 5. Silty sand to sandy silt | <span style="color: grey;">■</span> 8. Very stiff sand to clayey sand |
| <span style="color: blue;">■</span> 3. Clay to silty clay    | <span style="color: tan;">■</span> 6. Clean sand to silty sand        | <span style="color: lightgrey;">■</span> 9. Very stiff fine grained   |



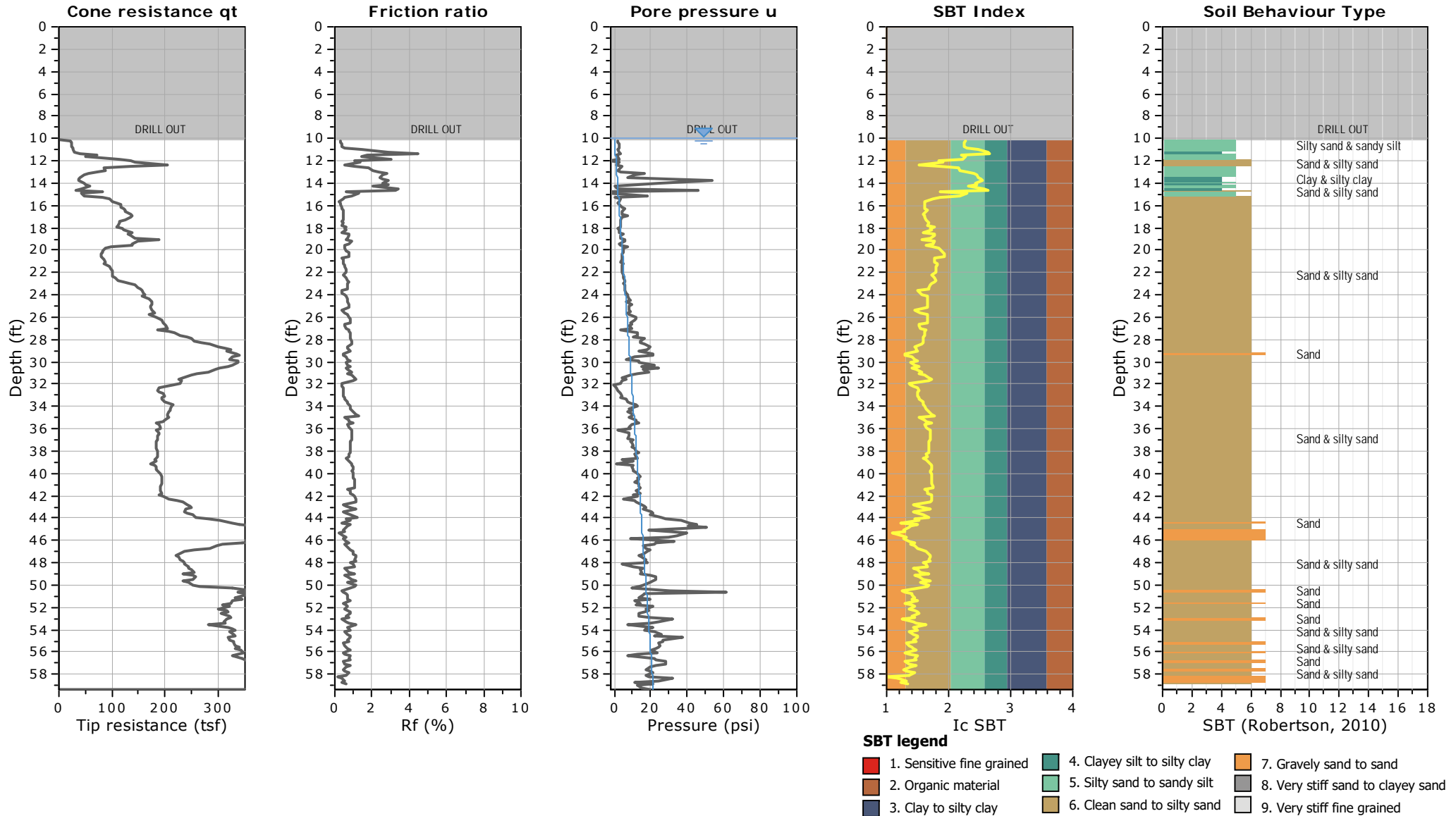
### Bq plots (Schneider)

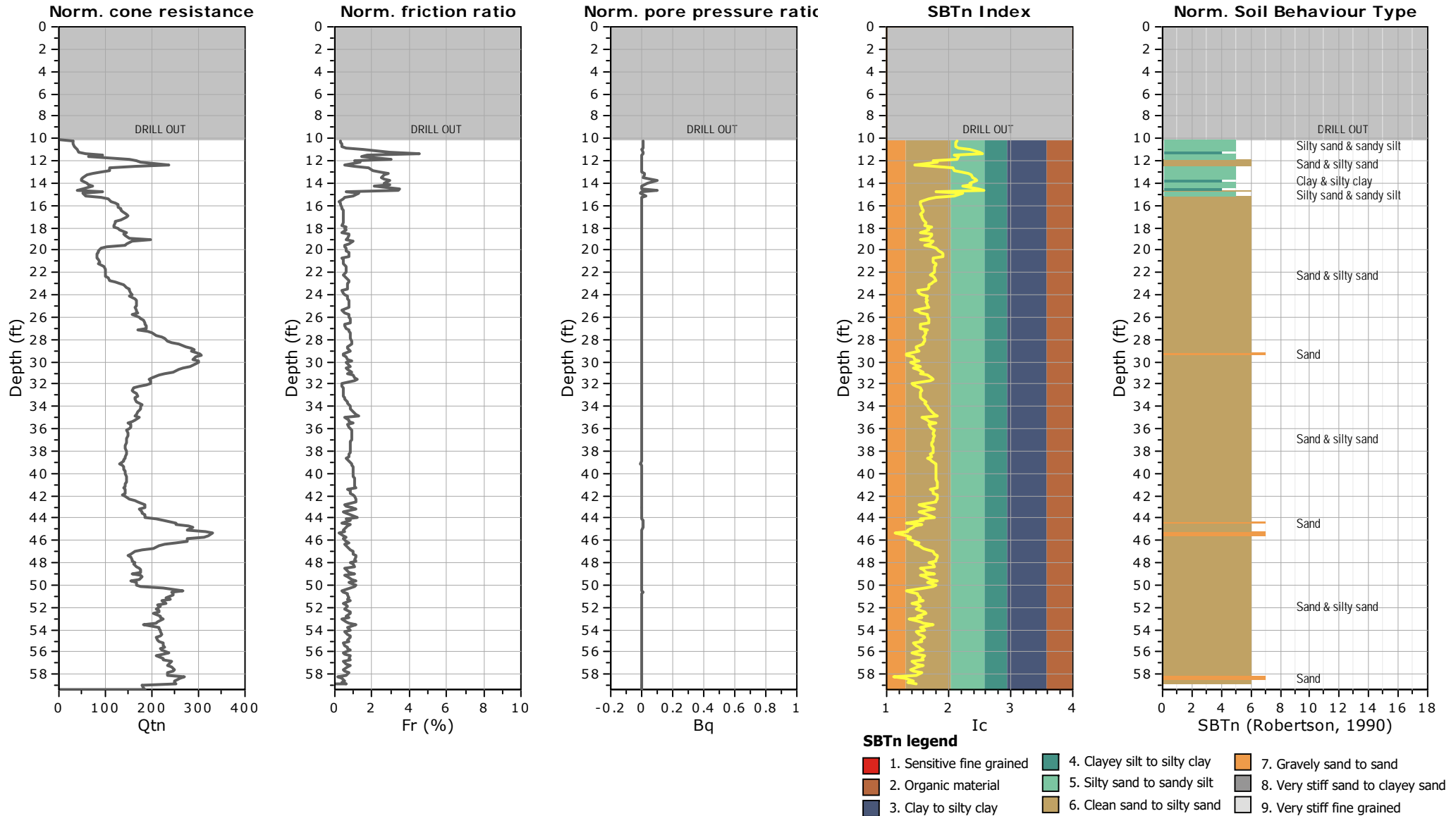


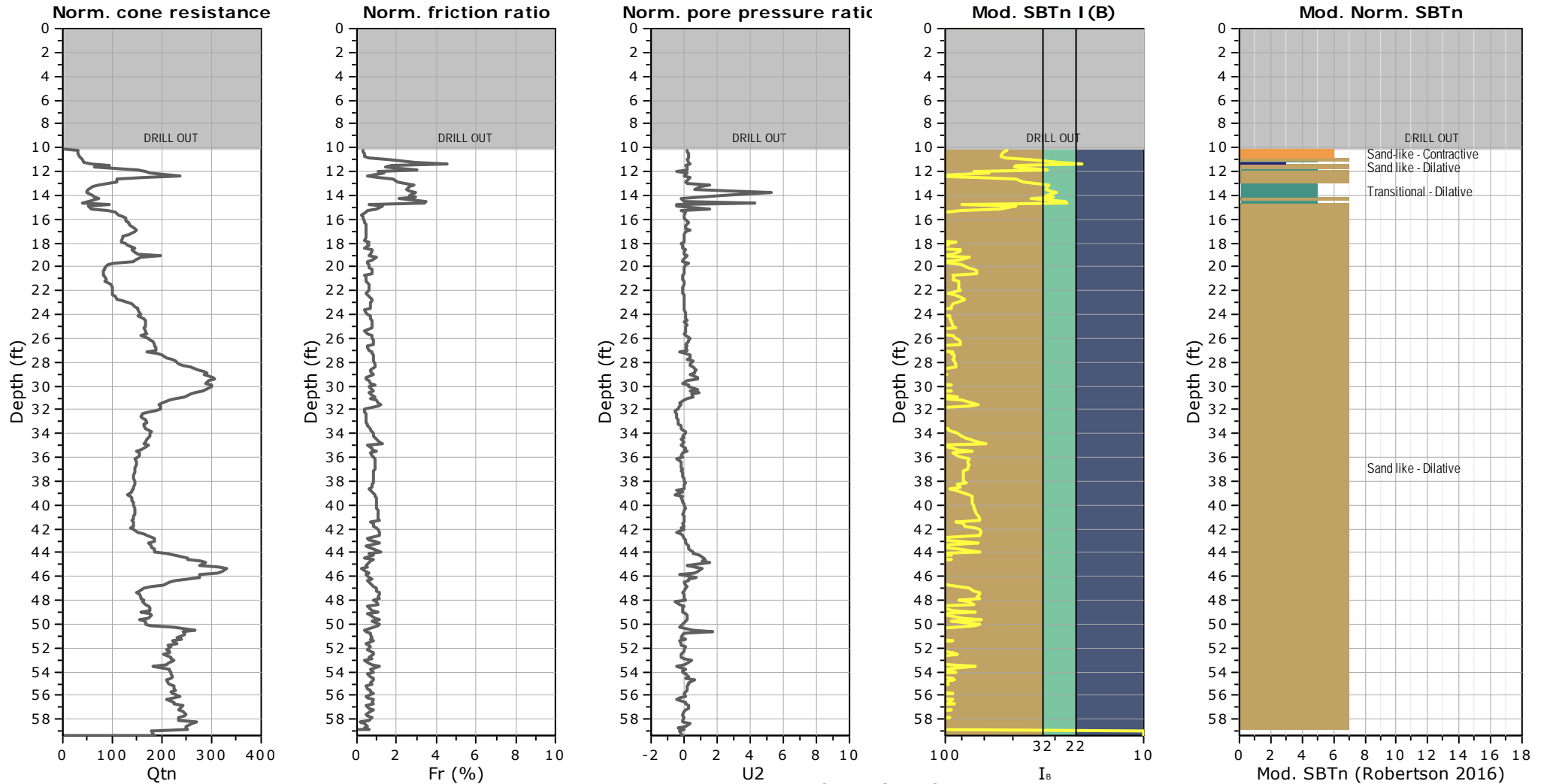


**Fuzzy classification legend**

- Highly probable clayey soil
- Highly probable mixture soil
- Highly probable sandy soil



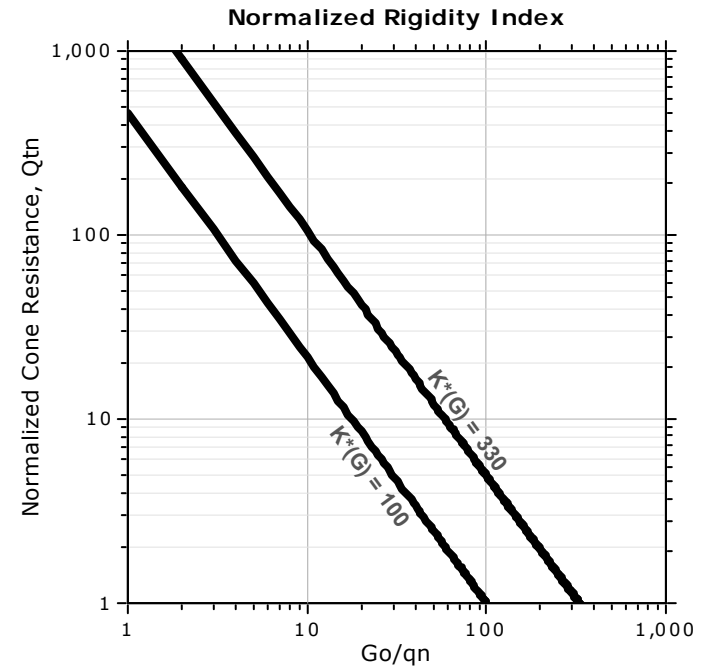
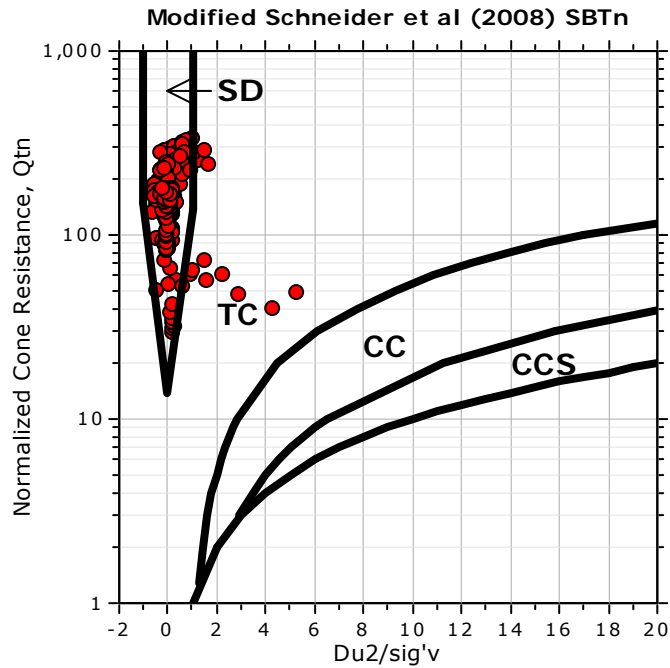
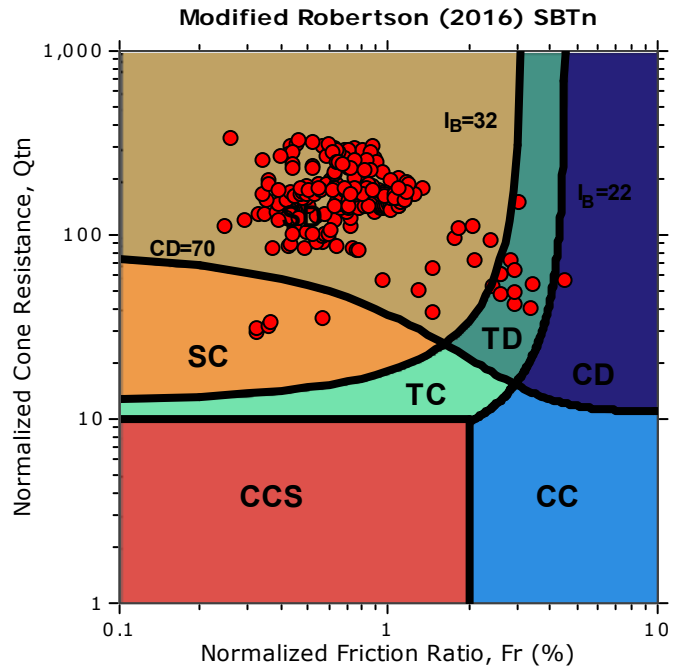




- Mod. SBTn legend**
- 1. CCS: ClayLike - Contractive, Sensitive
  - 2. CC: Clay-like - Contractive
  - 3. CD: Clay-Like: Dilative
  - 4. TC: Transitional - Contractive
  - 5. TD: Transitional - Dilative
  - 6. SC: Sand-like - Contractive
  - 7. SD: Sand-like - Dilative

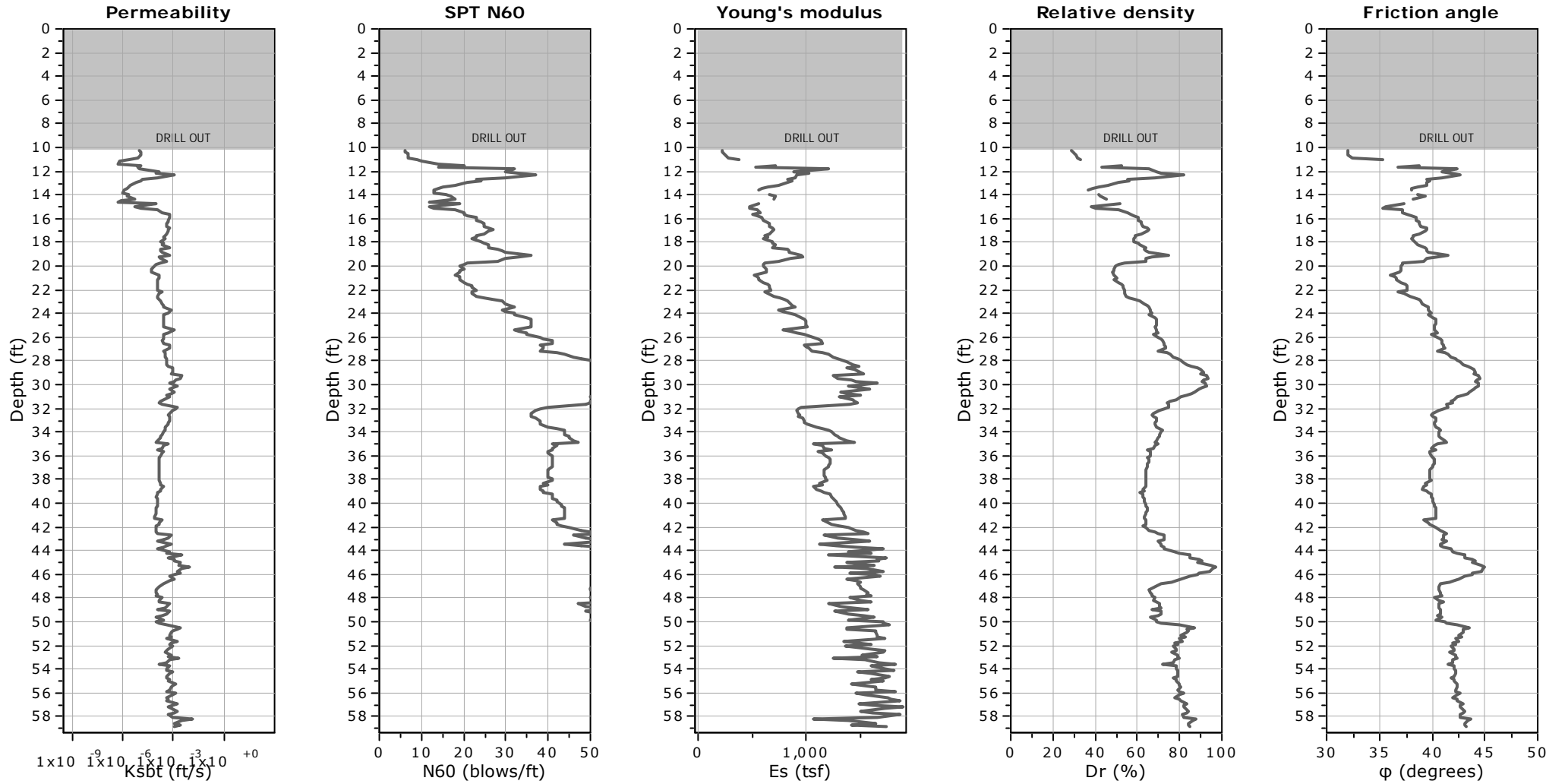


**Updated SBTn plots**



- CCS: Clay-like - Contractive - Sensitive
- CC: Clay-like - Contractive
- CD: Clay-like - Dilative
- TC: Transitional - Contractive
- TD: Transitional - Dilative
- SC: Sand-like - Contractive
- SD: Sand-like - Dilative

$K^*(G) > 330$ : Soils with significant microstructure (e.g. age/cementation)



**Calculation parameters**

Permeability: Based on  $SBT_n$

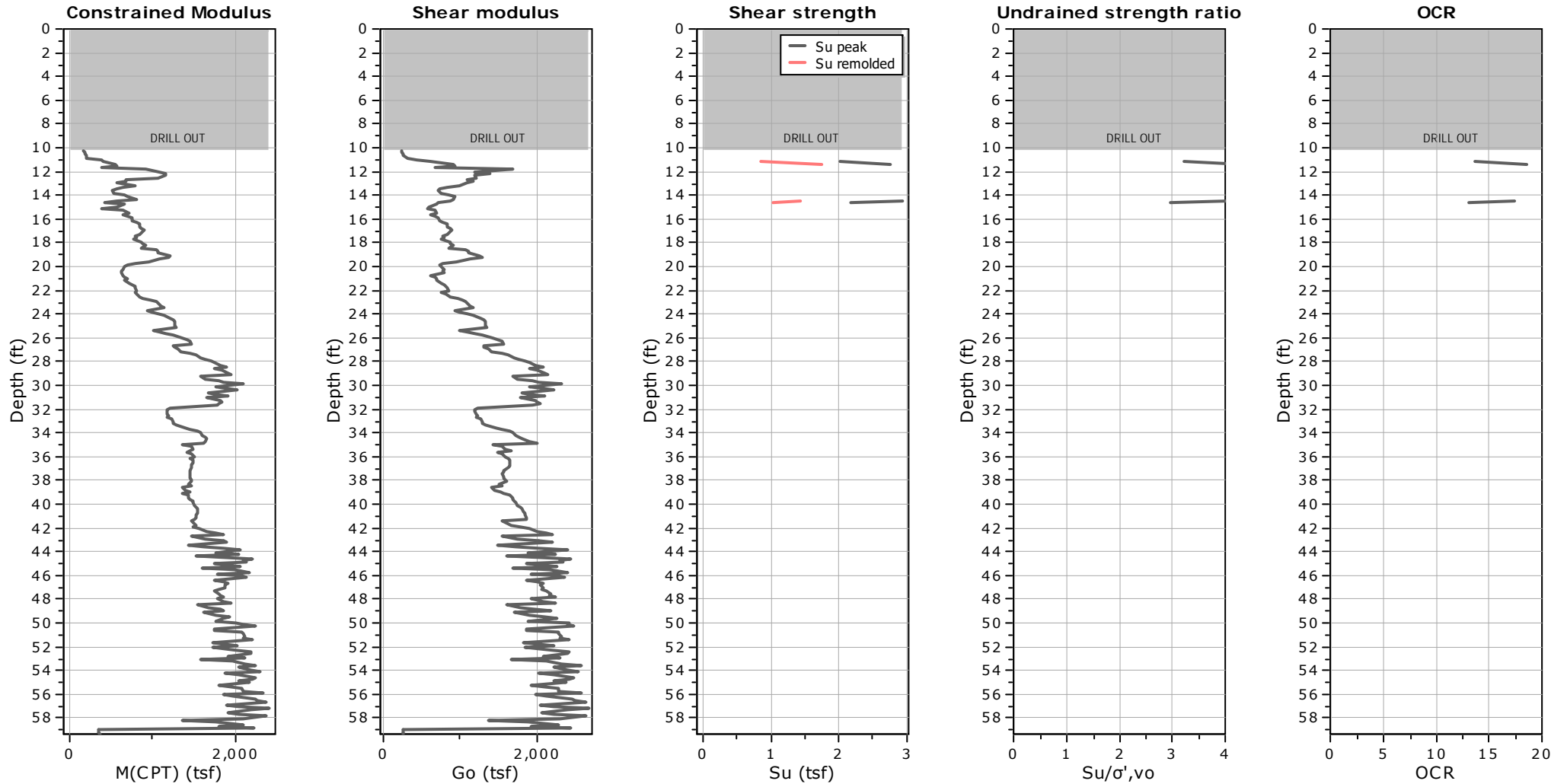
SPT  $N_{60}$ : Based on  $I_c$  and  $q_t$

Young's modulus: Based on variable alpha using  $I_c$  (Robertson, 2009)

Relative density constant,  $C_{Dr}$ : 350.0

Phi: Based on Kulhawy & Mayne (1990)





**Calculation parameters**

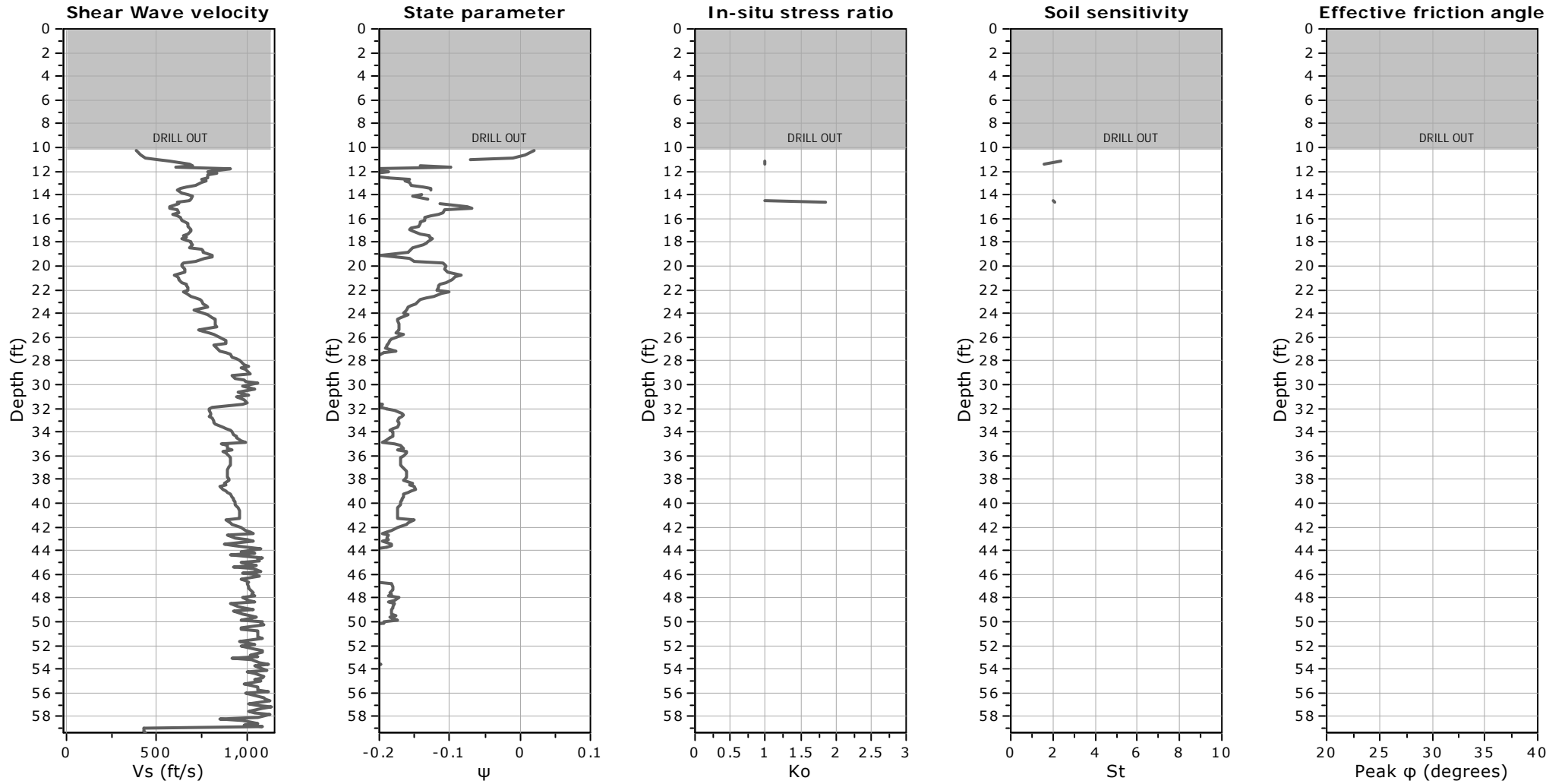
Constrained modulus: Based on variable  $\alpha$  using  $I_c$  and  $Q_{tn}$  (Robertson, 2009)

Go: Based on variable  $\alpha$  using  $I_c$  (Robertson, 2009)

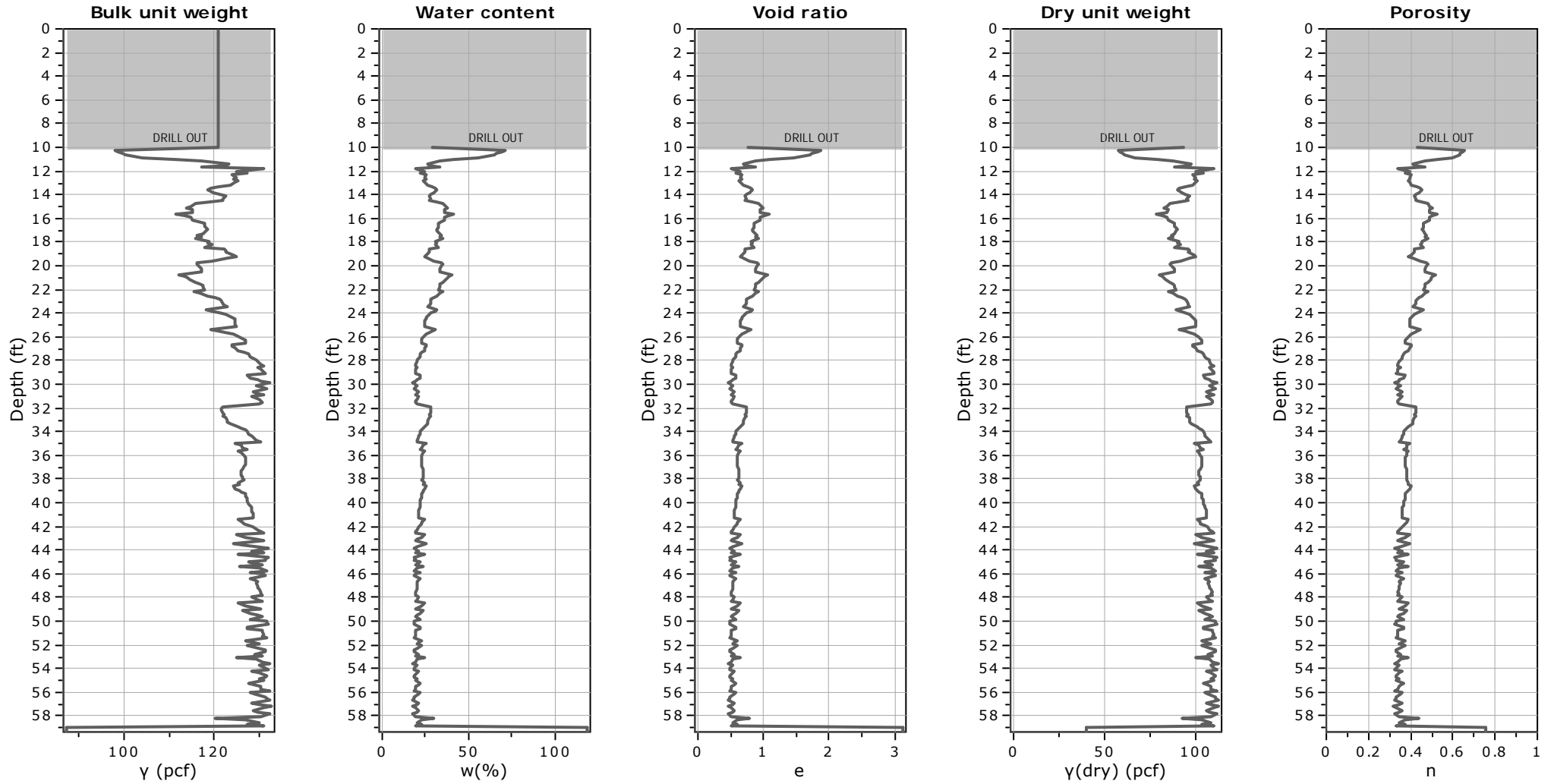
Undrained shear strength cone factor for clays,  $N_{kt}$ : 14

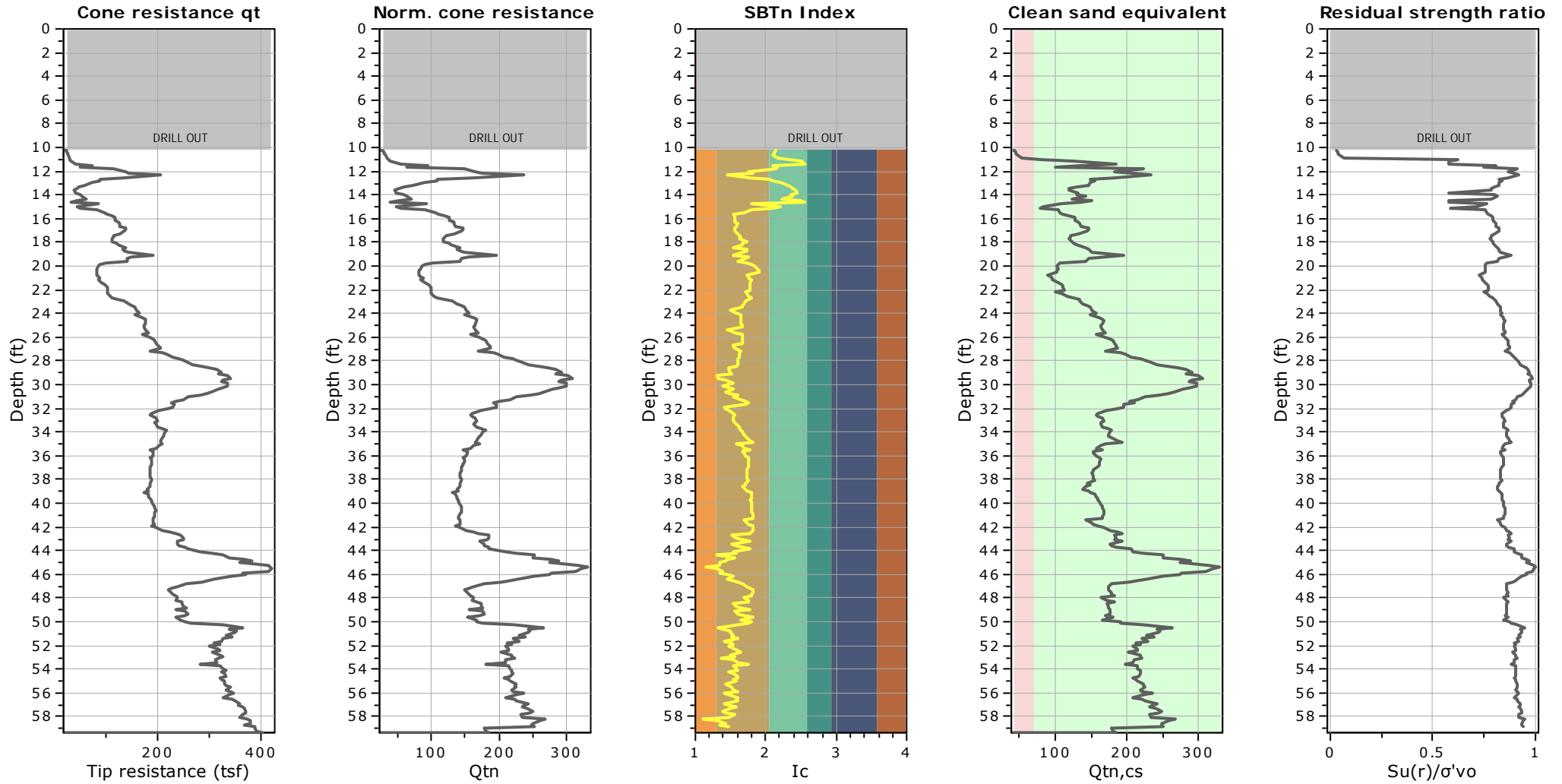
OCR factor for clays,  $N_{kt}$ : 0.33

● Flat Dilatometer Test data

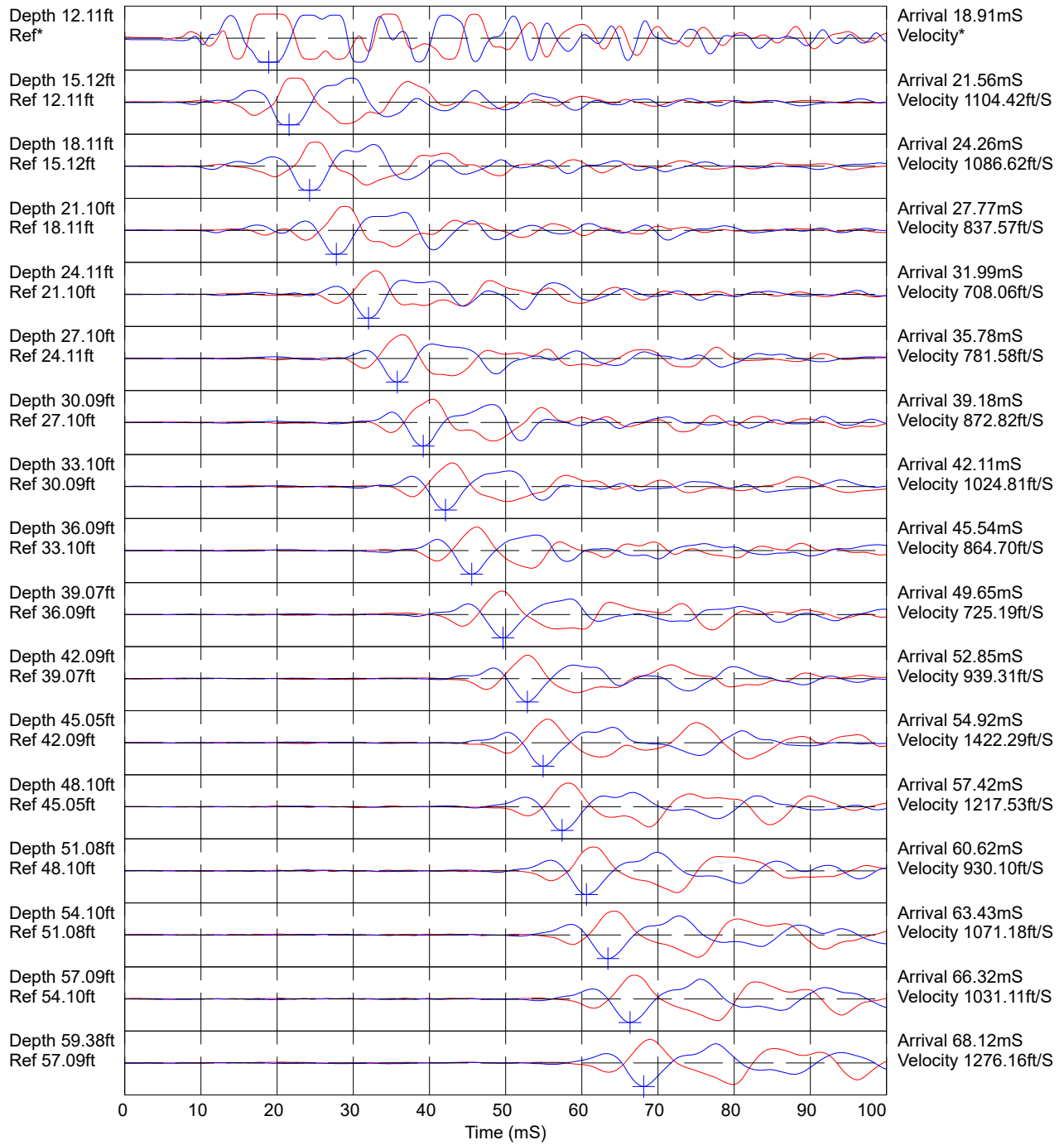


**Calculation parameters**  
Soil Sensitivity factor,  $N_s$ : 7.00





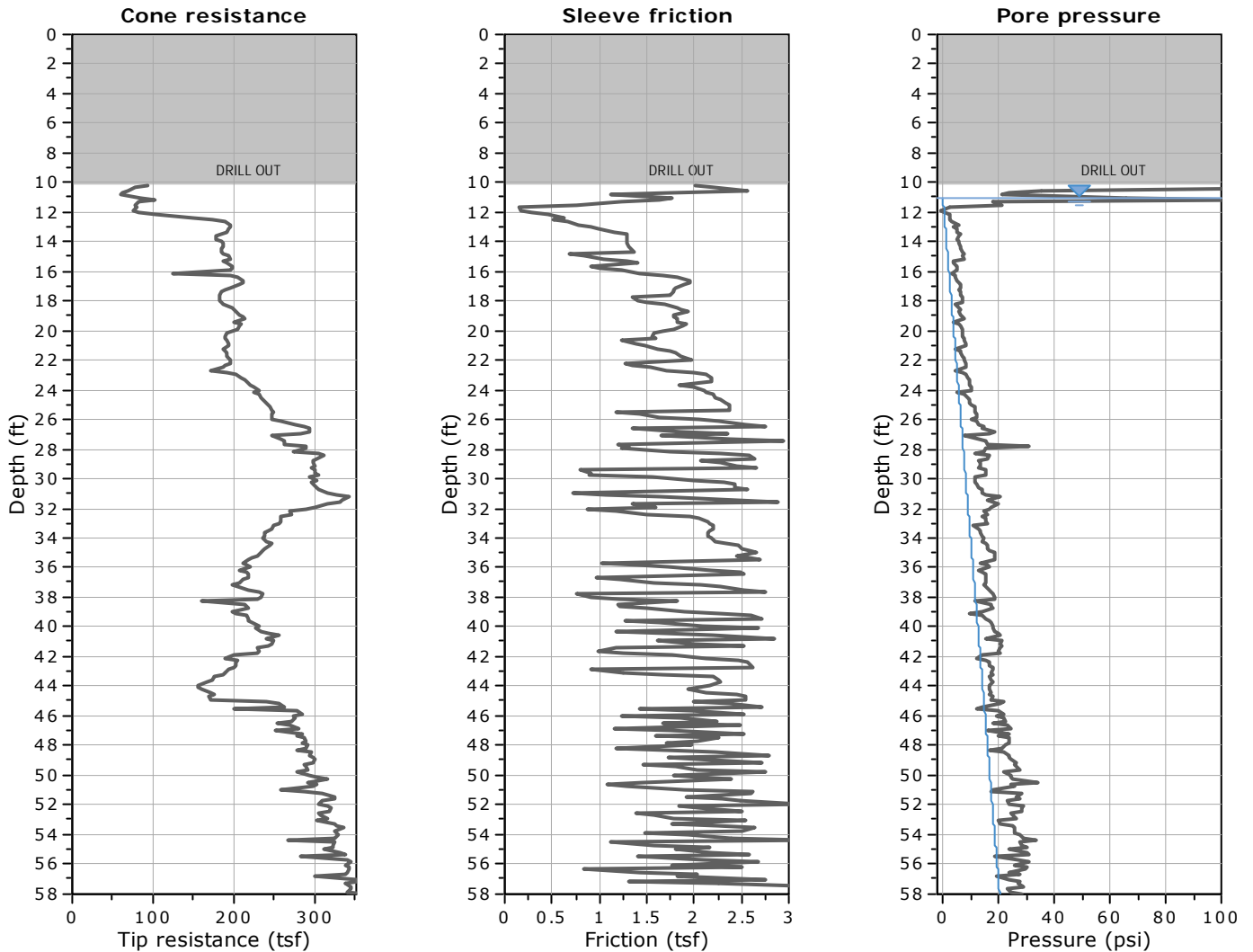
### SEISMIC TEST



Hammer to Rod String Distance (ft): 3.28

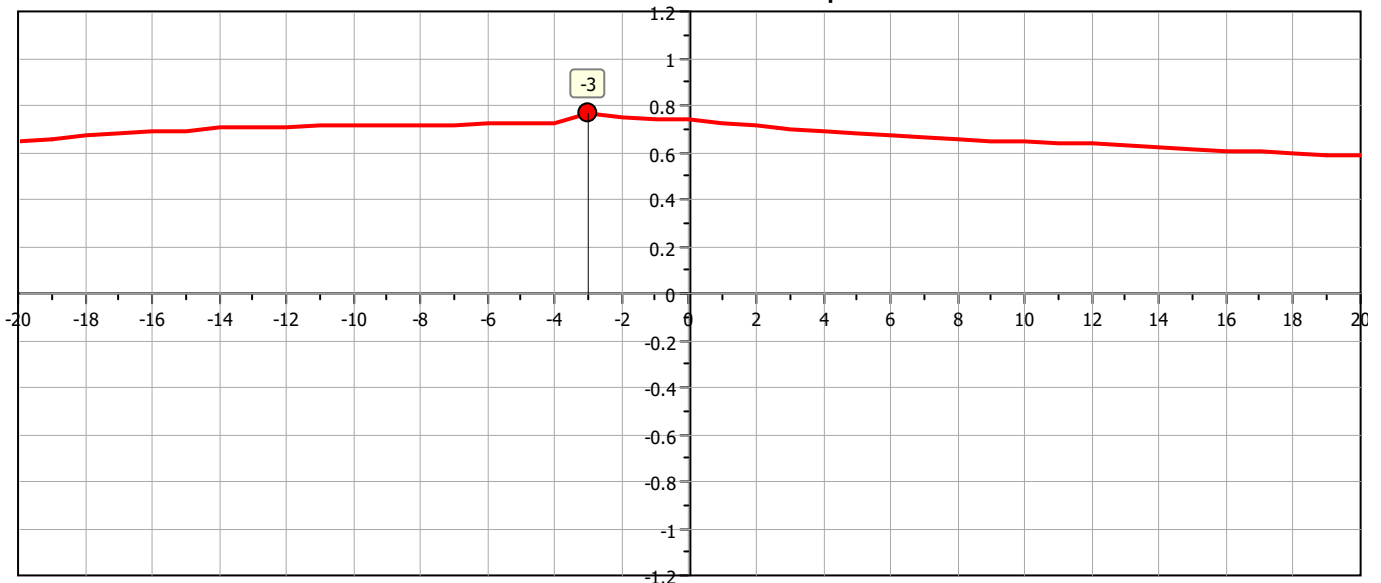
\* = Not Determined

COMMENT:



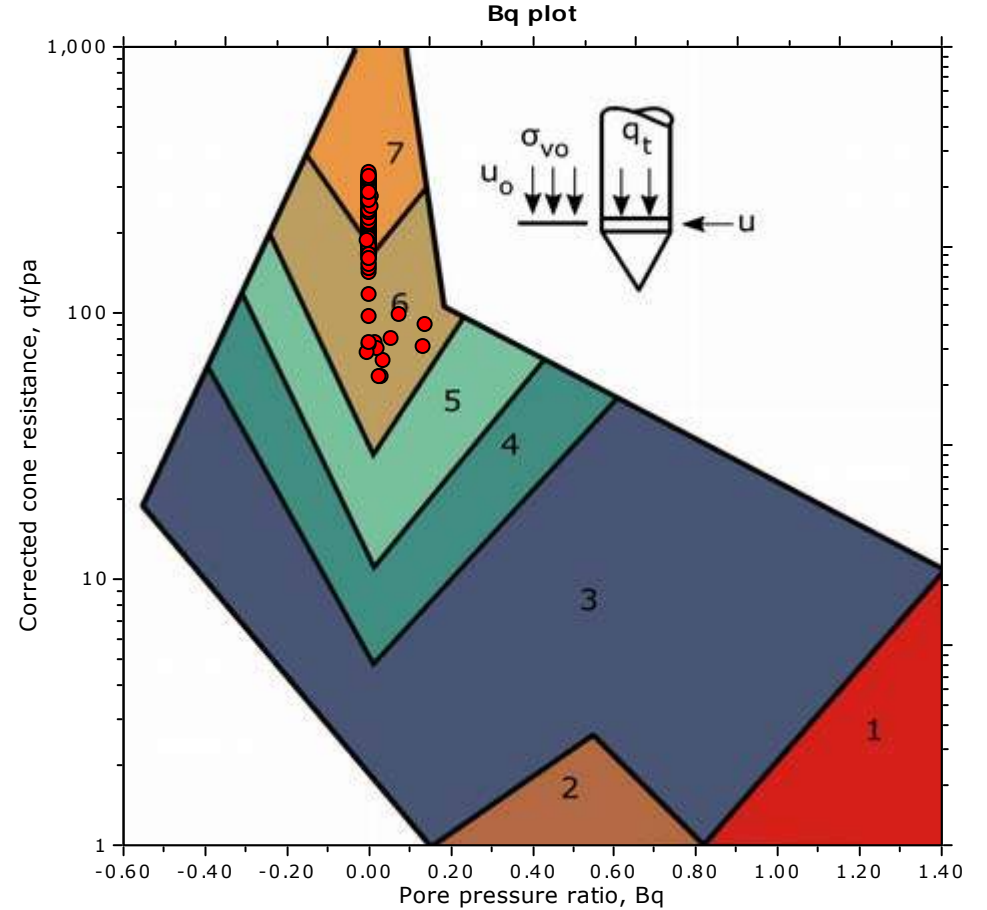
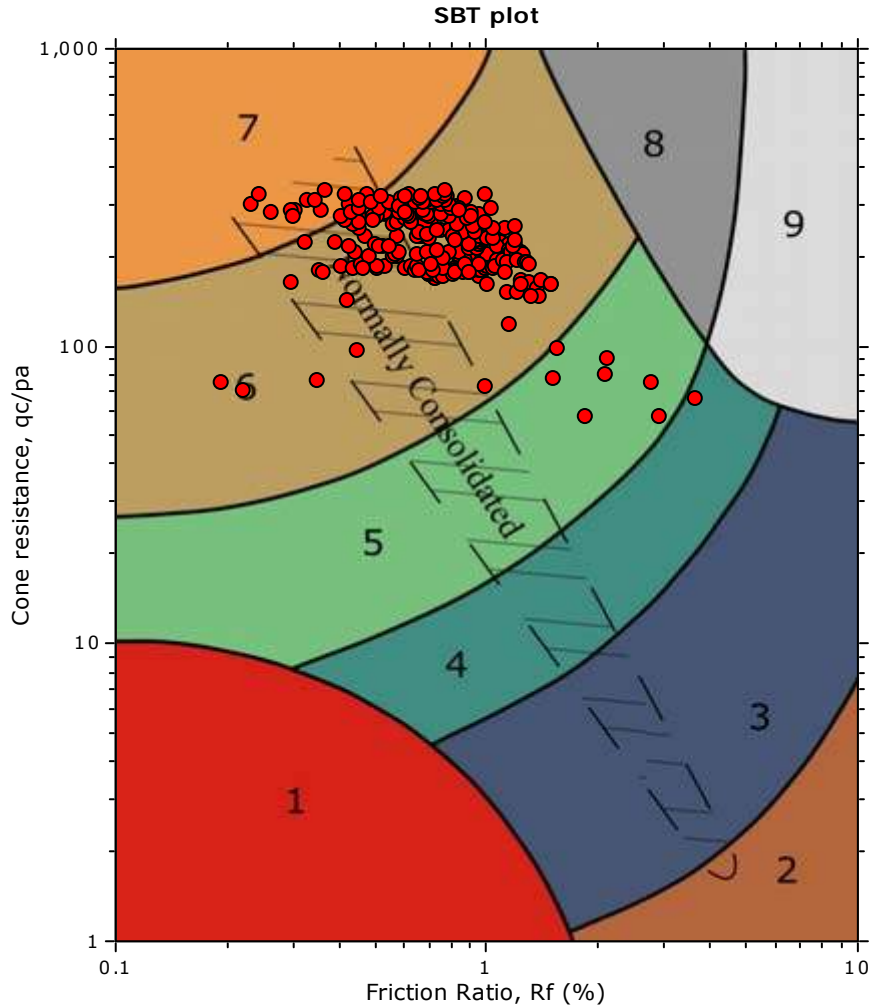
The plot below presents the cross correlation coefficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two successive CPT measurements).

Cross correlation between qc & fs





**SBT - Bq plots**

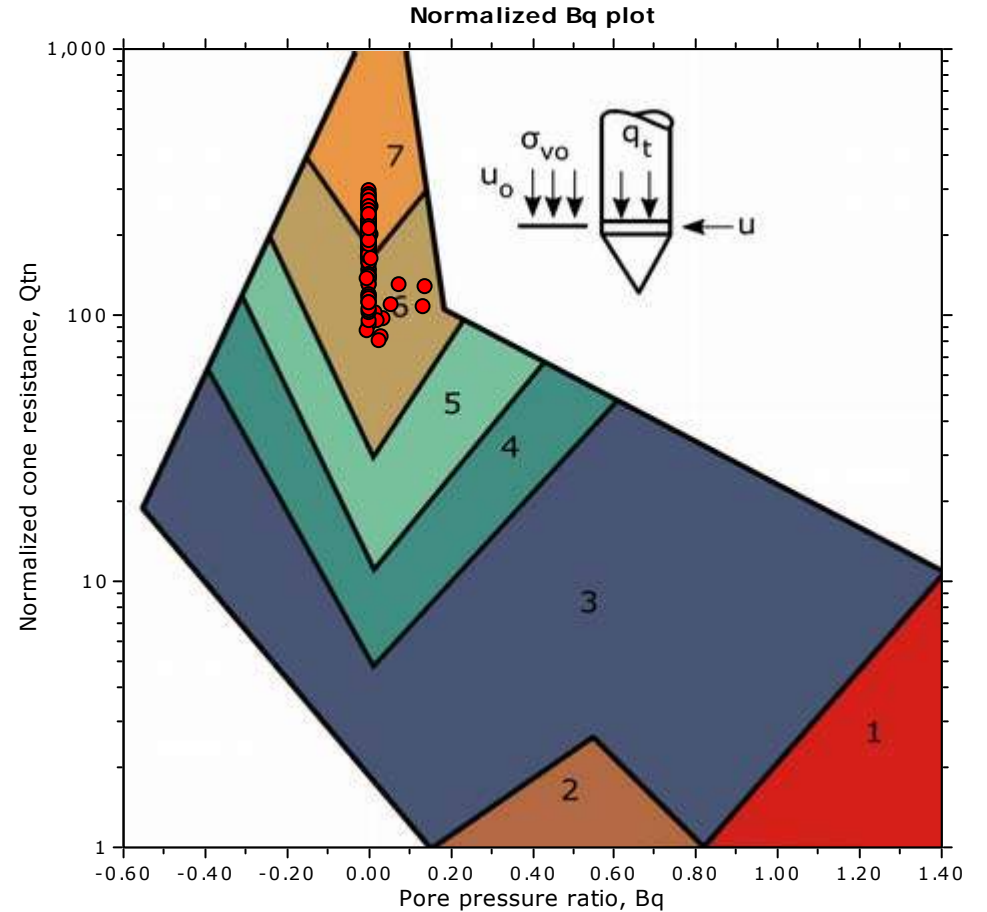
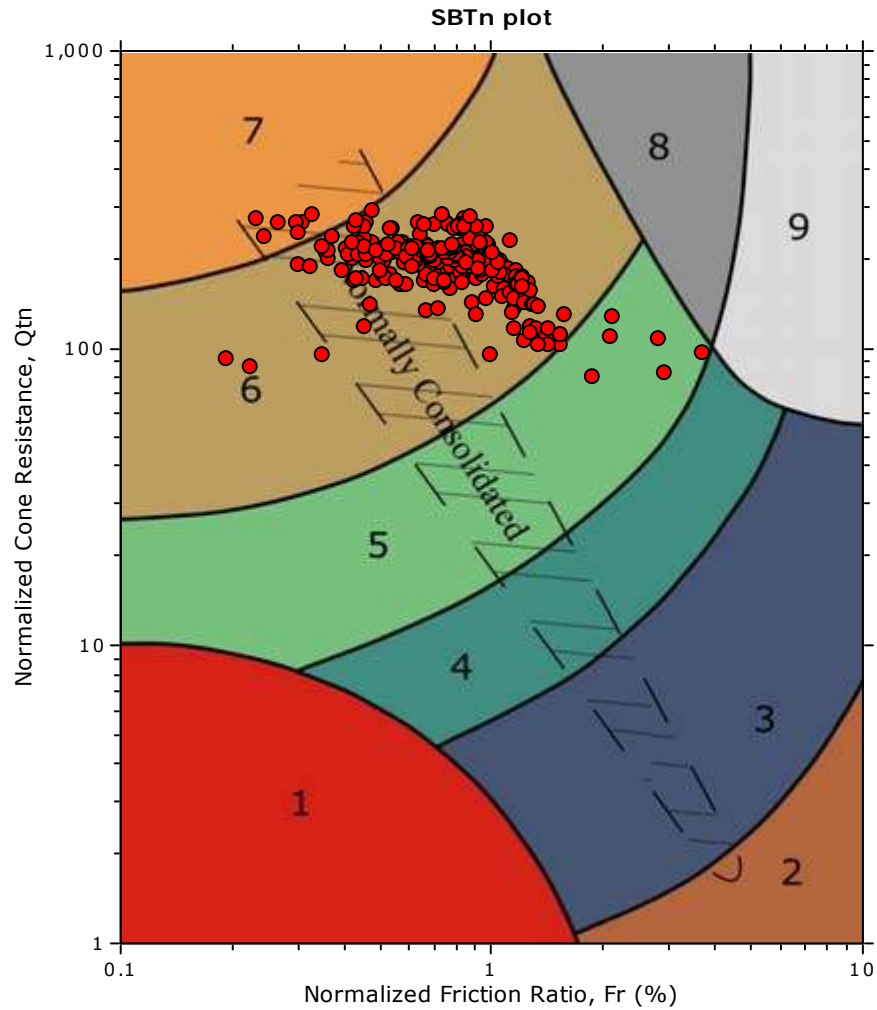


**SBT legend**

- |                                                              |                                                                       |                                                                       |
|--------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| <span style="color: red;">■</span> 1. Sensitive fine grained | <span style="color: teal;">■</span> 4. Clayey silt to silty clay      | <span style="color: orange;">■</span> 7. Gravelly sand to sand        |
| <span style="color: brown;">■</span> 2. Organic material     | <span style="color: lightgreen;">■</span> 5. Silty sand to sandy silt | <span style="color: grey;">■</span> 8. Very stiff sand to clayey sand |
| <span style="color: blue;">■</span> 3. Clay to silty clay    | <span style="color: tan;">■</span> 6. Clean sand to silty sand        | <span style="color: lightgrey;">■</span> 9. Very stiff fine grained   |



**SBT - Bq plots (normalized)**



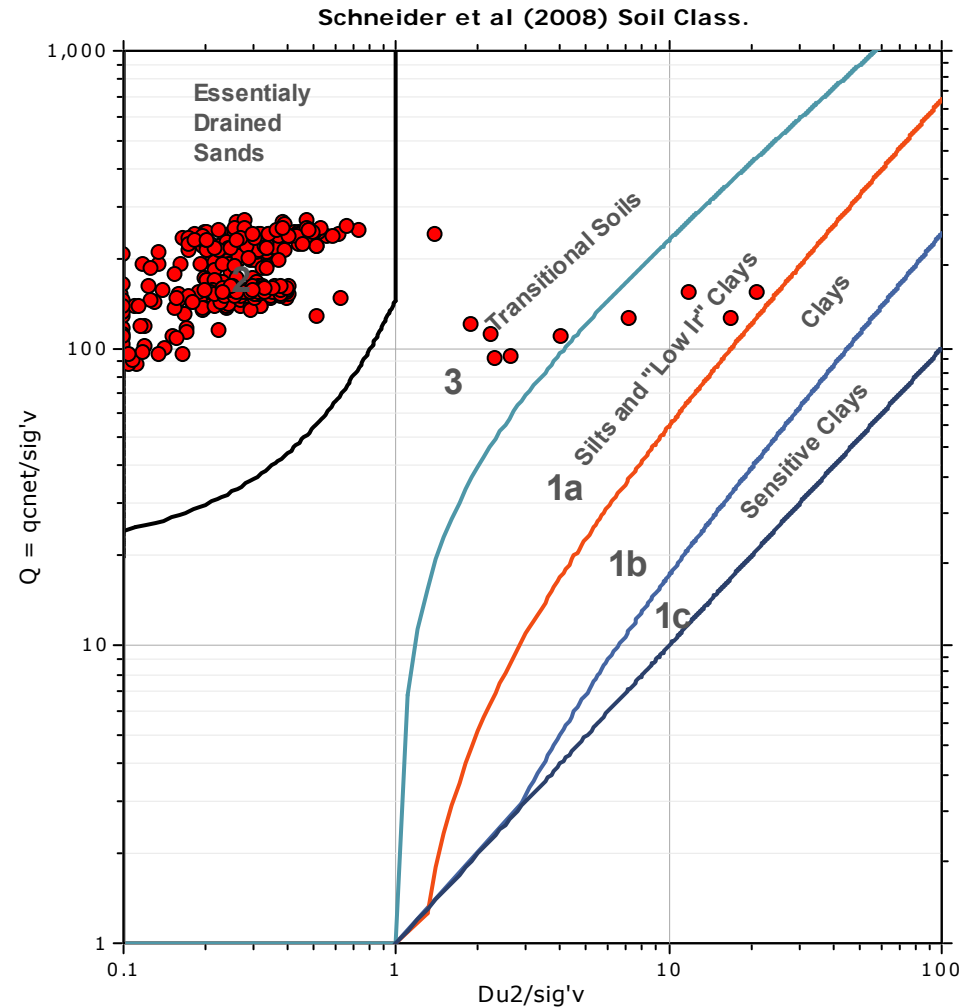
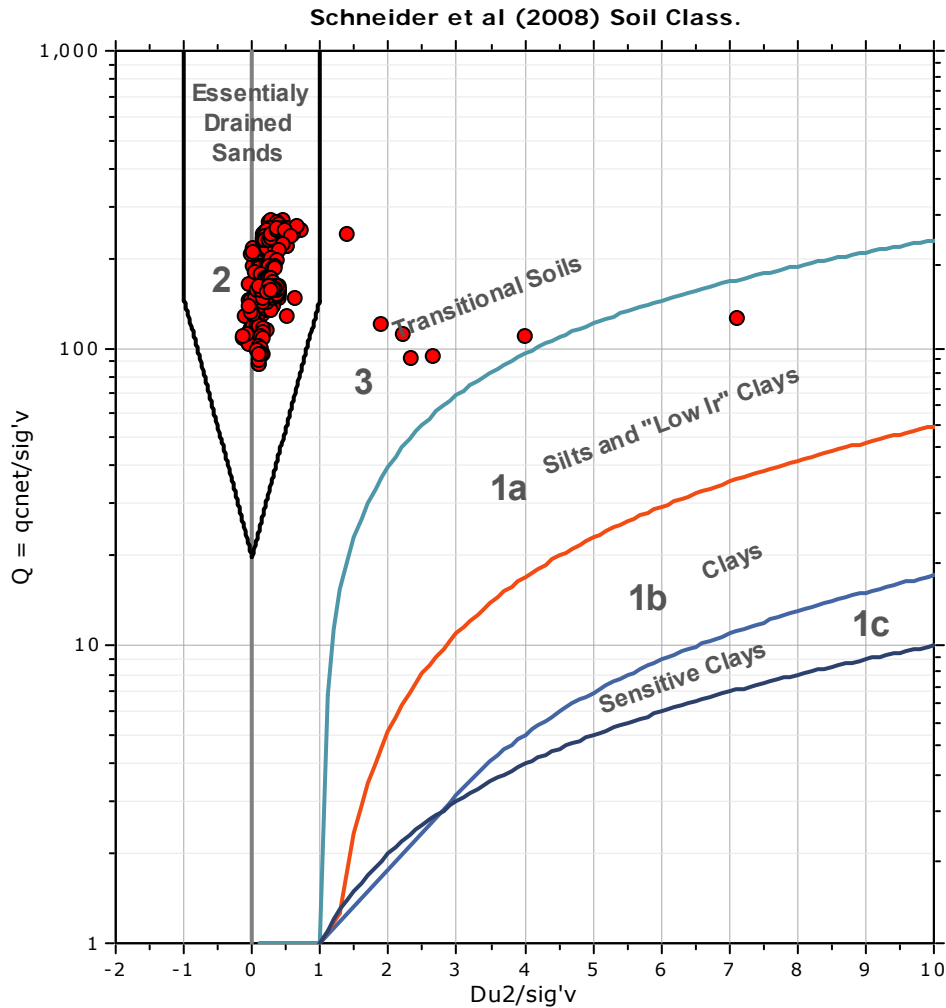
**SBTn legend**

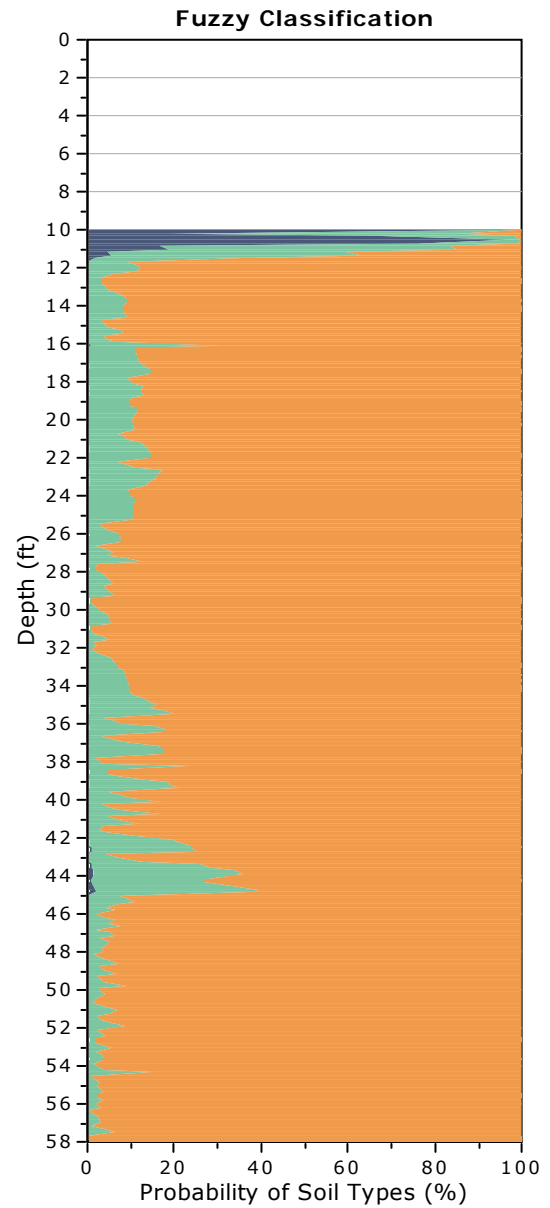
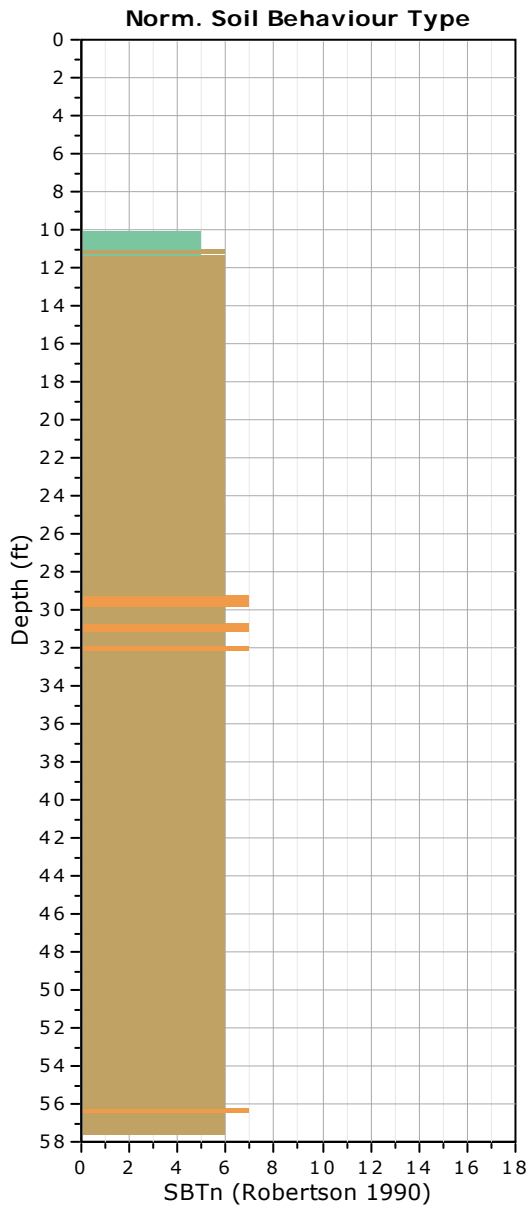
- |                           |                              |                                   |
|---------------------------|------------------------------|-----------------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty clay | 7. Gravelly sand to sand          |
| 2. Organic material       | 5. Silty sand to sandy silt  | 8. Very stiff sand to clayey sand |
| 3. Clay to silty clay     | 6. Clean sand to silty sand  | 9. Very stiff fine grained        |





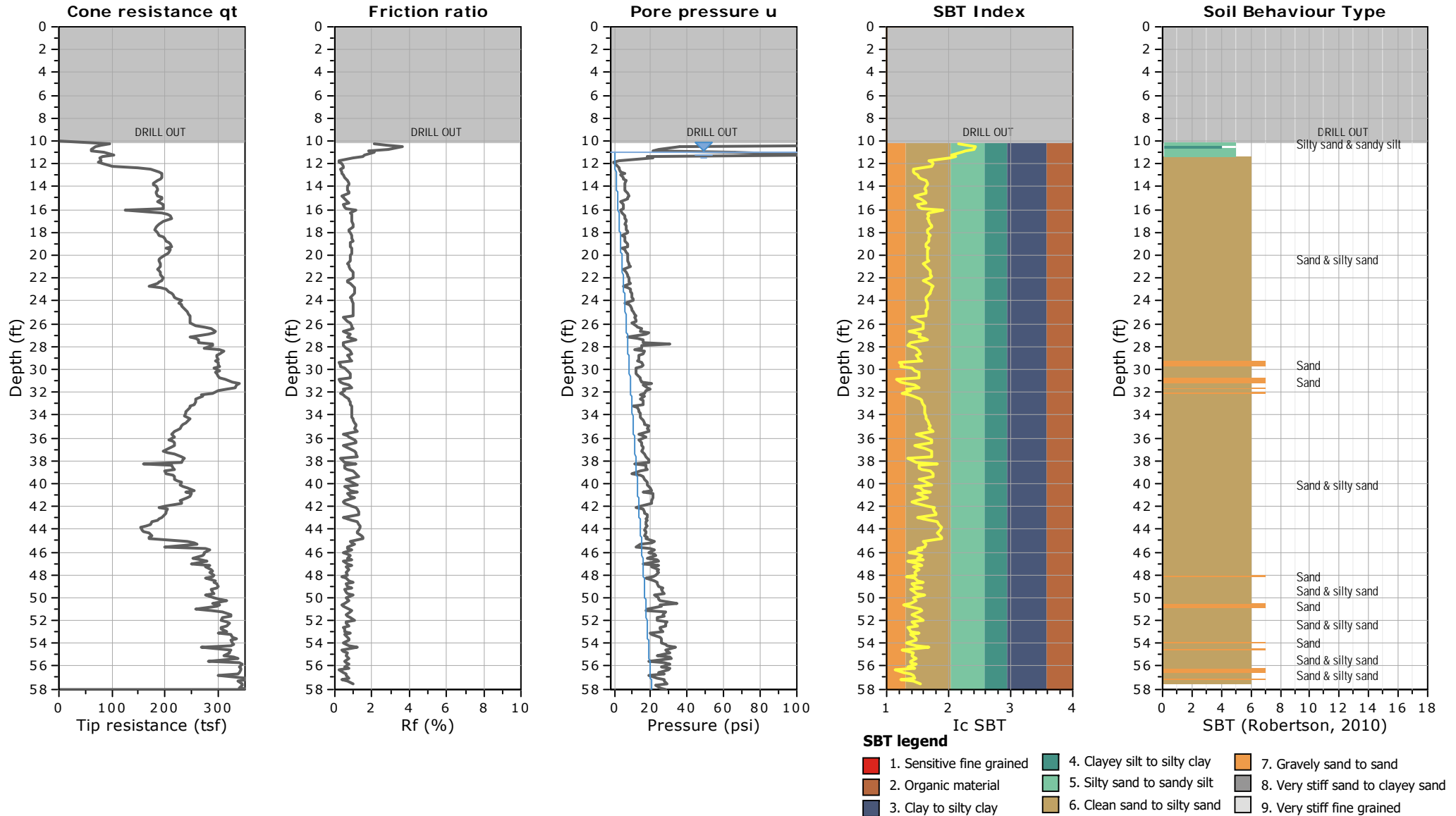
### Bq plots (Schneider)

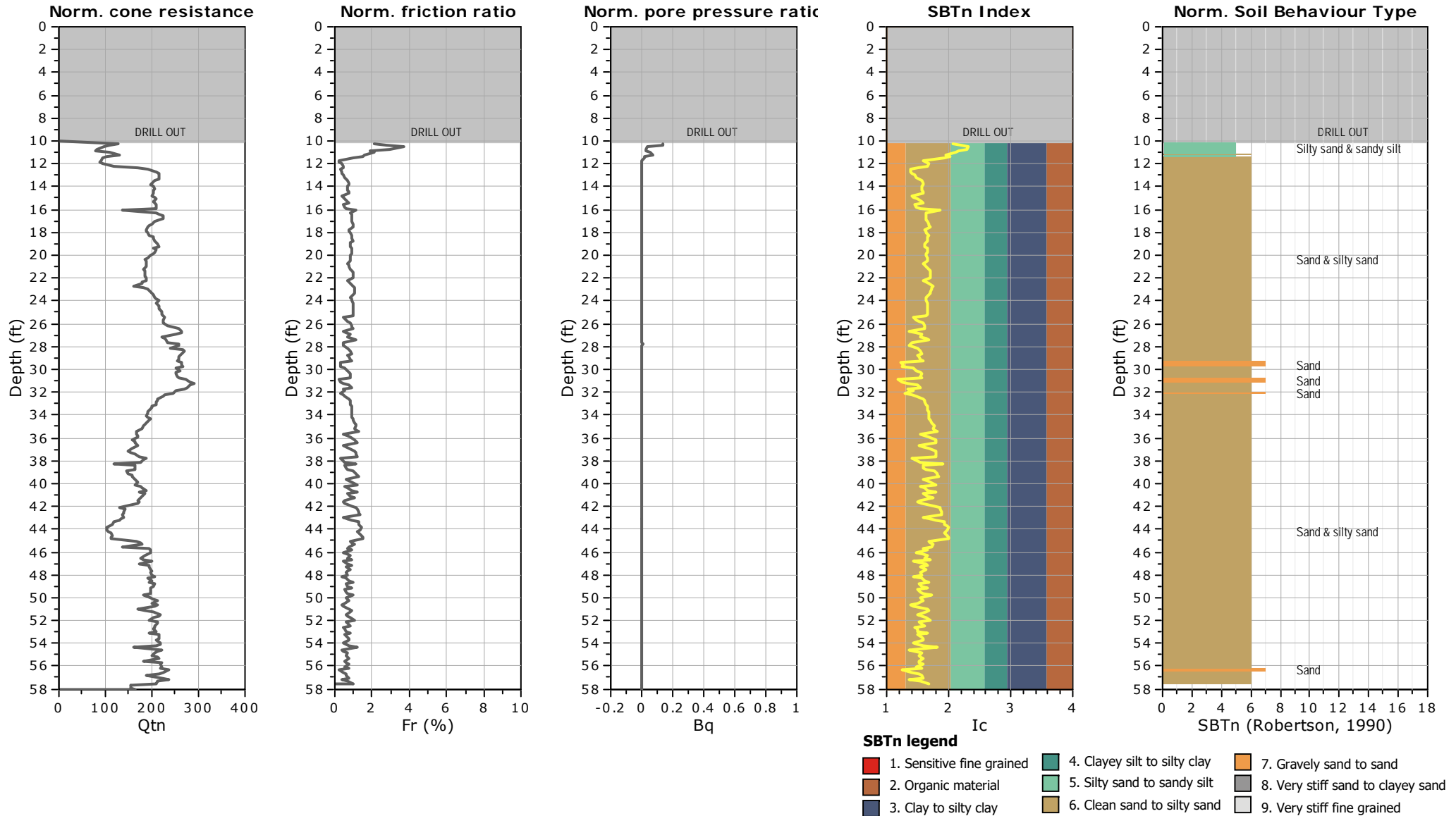


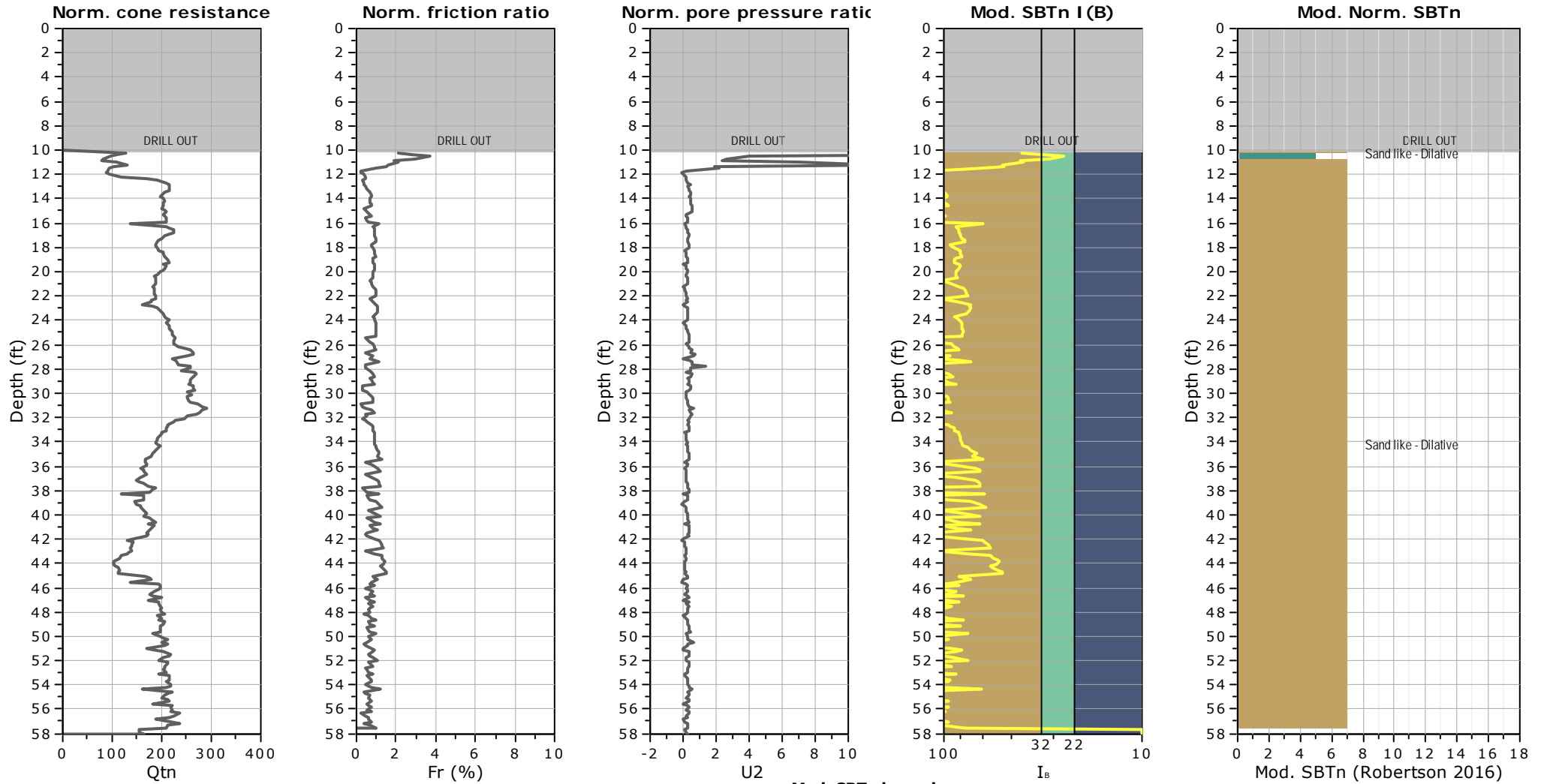


**Fuzzy classification legend**

- Highly probable clayey soil
- Highly probable mixture soil
- Highly probable sandy soil



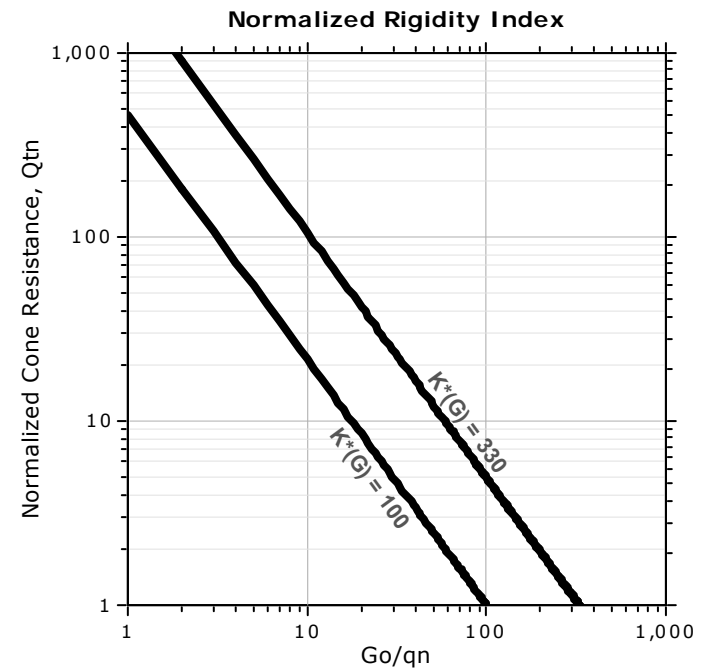
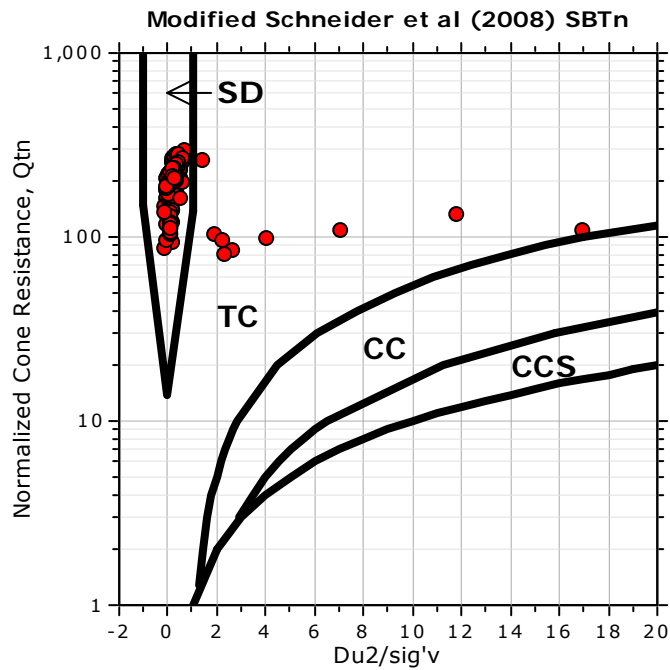
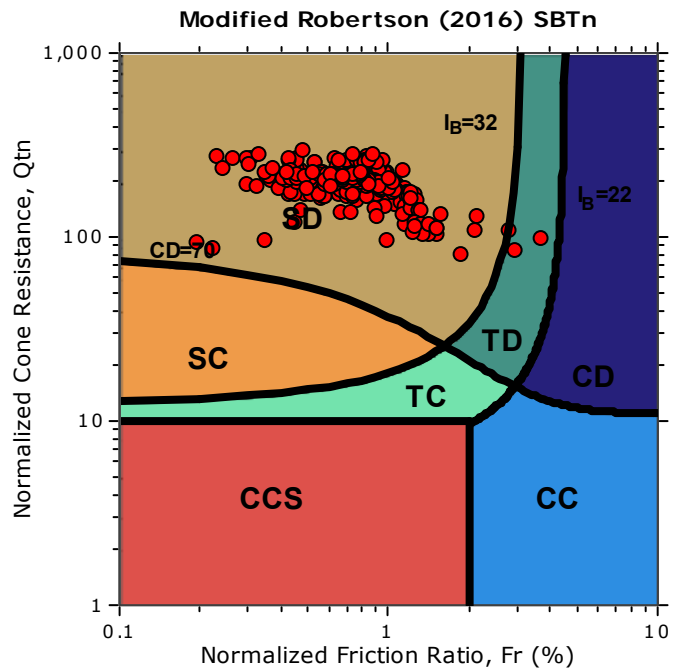




- Mod. SBTn legend**
- 1. CCS: ClayLike - Contractive, Sensitive
  - 2. CC: Clay-like - Contractive
  - 3. CD: Clay-Like: Dilative
  - 4. TC: Transitional - Contractive
  - 5. TD: Transitional - Dilative
  - 6. SC: Sand-like - Contractive
  - 7. SD: Sand-like - Dilative

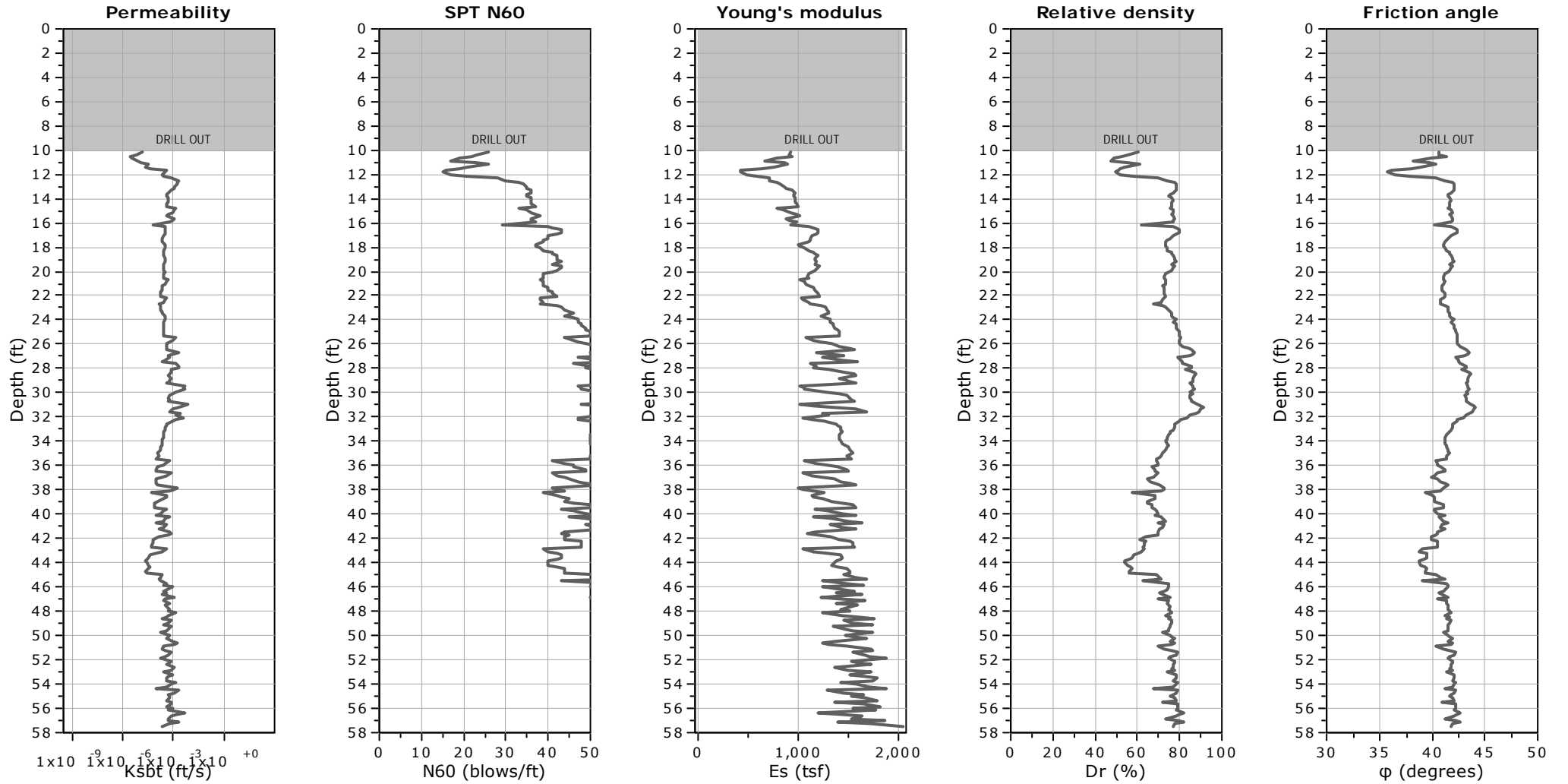


**Updated SBTn plots**



- CCS: Clay-like - Contractive - Sensitive
- CC: Clay-like - Contractive
- CD: Clay-like - Dilative
- TC: Transitional - Contractive
- TD: Transitional - Dilative
- SC: Sand-like - Contractive
- SD: Sand-like - Dilative

$K^*(G) > 330$ : Soils with significant microstructure (e.g. age/cementation)



**Calculation parameters**

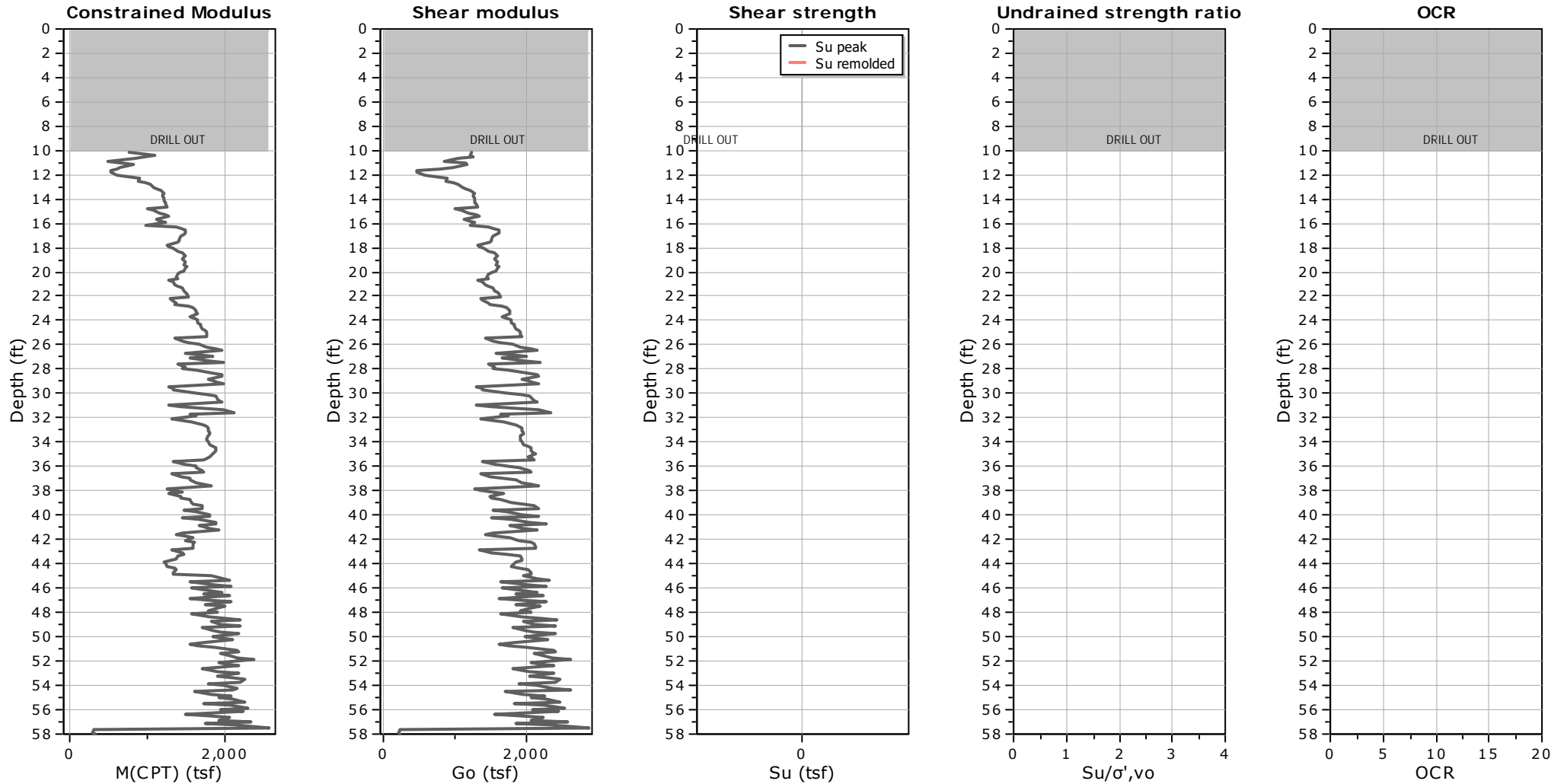
Permeability: Based on SBT<sub>n</sub>

SPT N<sub>60</sub>: Based on I<sub>c</sub> and q<sub>t</sub>

Young's modulus: Based on variable alpha using I<sub>c</sub> (Robertson, 2009)

Relative density constant, C<sub>Dr</sub>: 350.0

Phi: Based on Kulhawy & Mayne (1990)



**Calculation parameters**

Constrained modulus: Based on variable  $\alpha$  using  $I_c$  and  $Q_{tn}$  (Robertson, 2009)

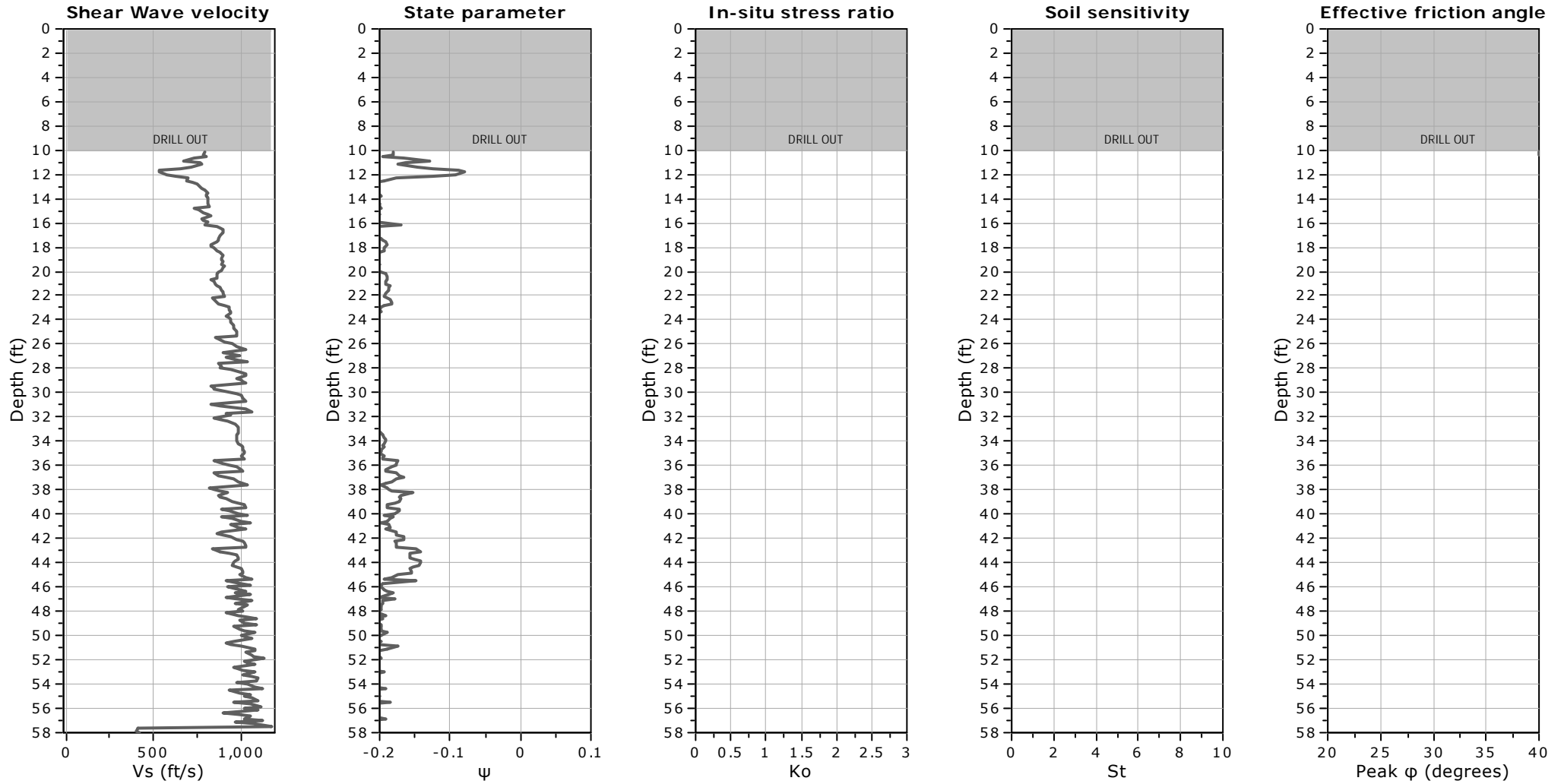
Go: Based on variable  $\alpha$  using  $I_c$  (Robertson, 2009)

Undrained shear strength cone factor for clays,  $N_{kt}$ : 14

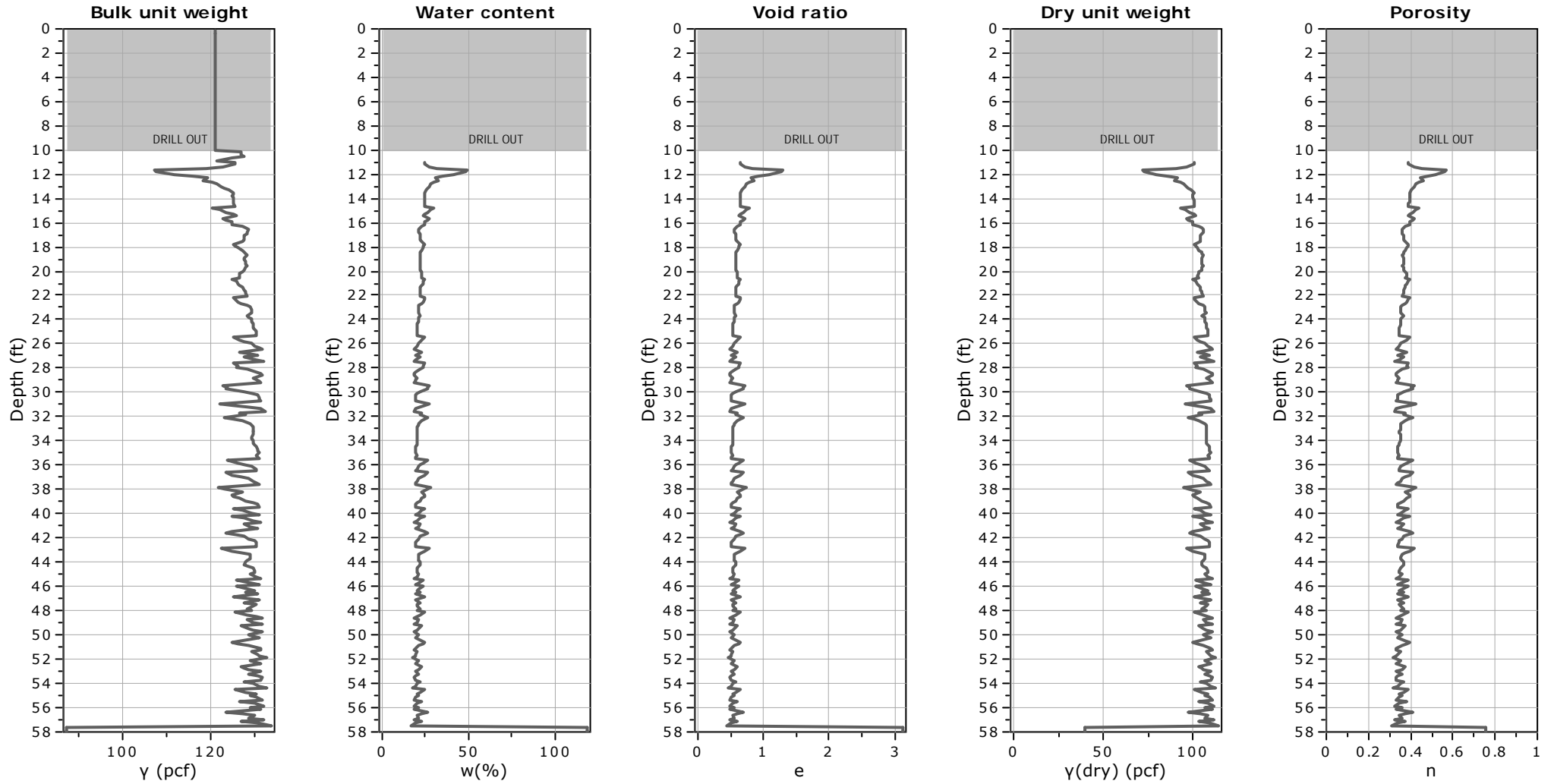
OCR factor for clays,  $N_{kt}$ : 0.33

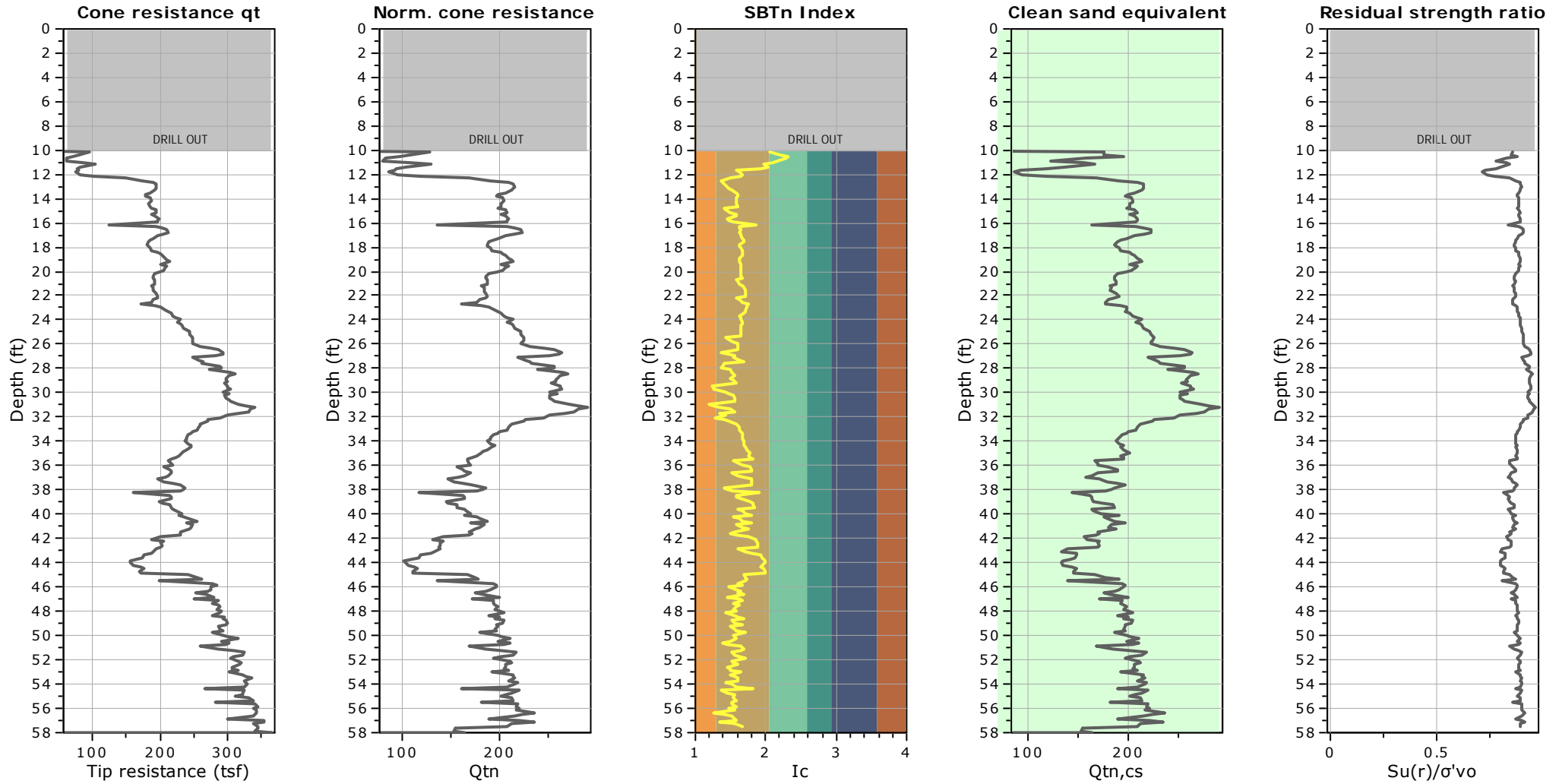
● Flat Dilatometer Test data



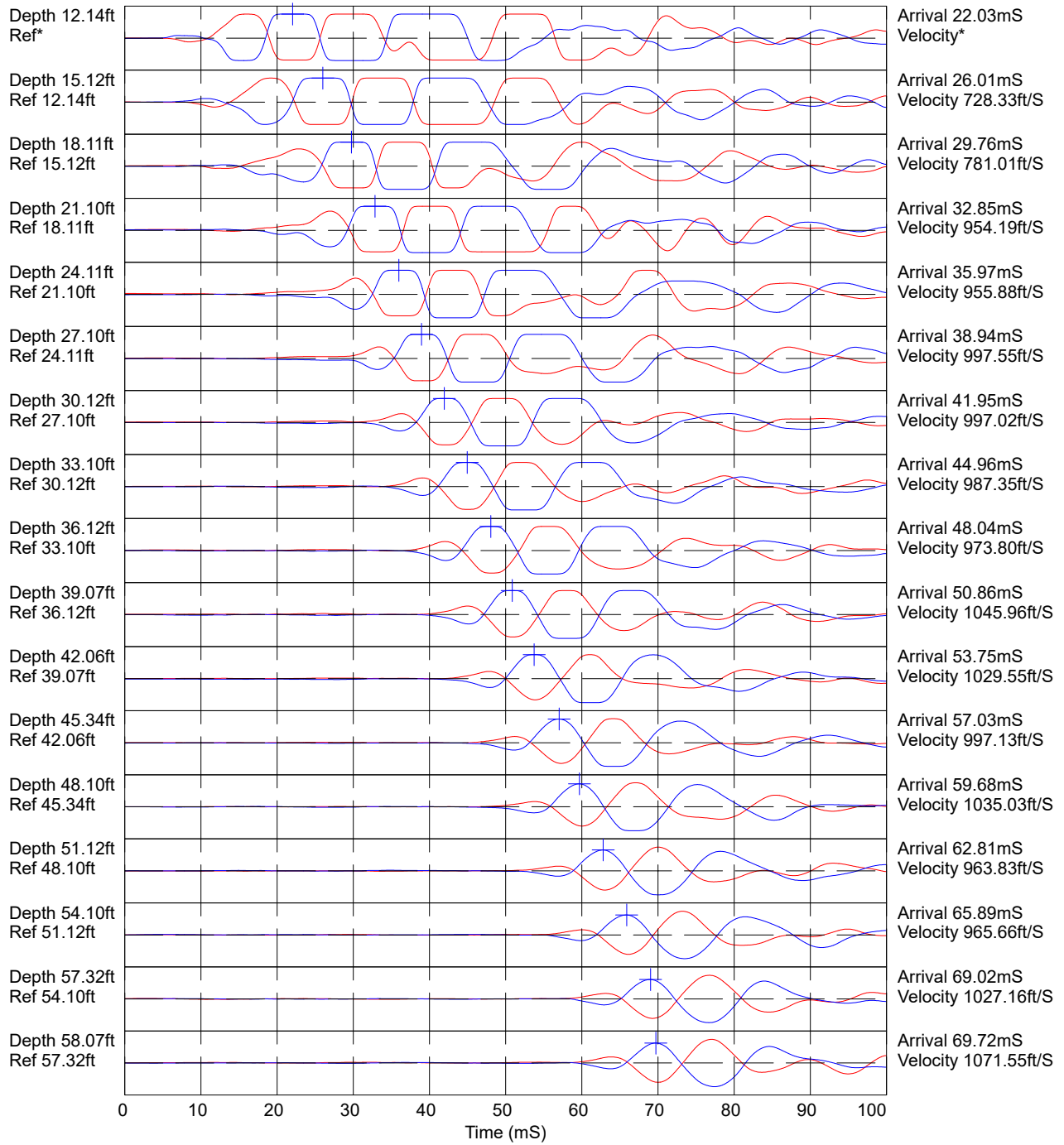


**Calculation parameters**  
Soil Sensitivity factor,  $N_s$ : 7.00





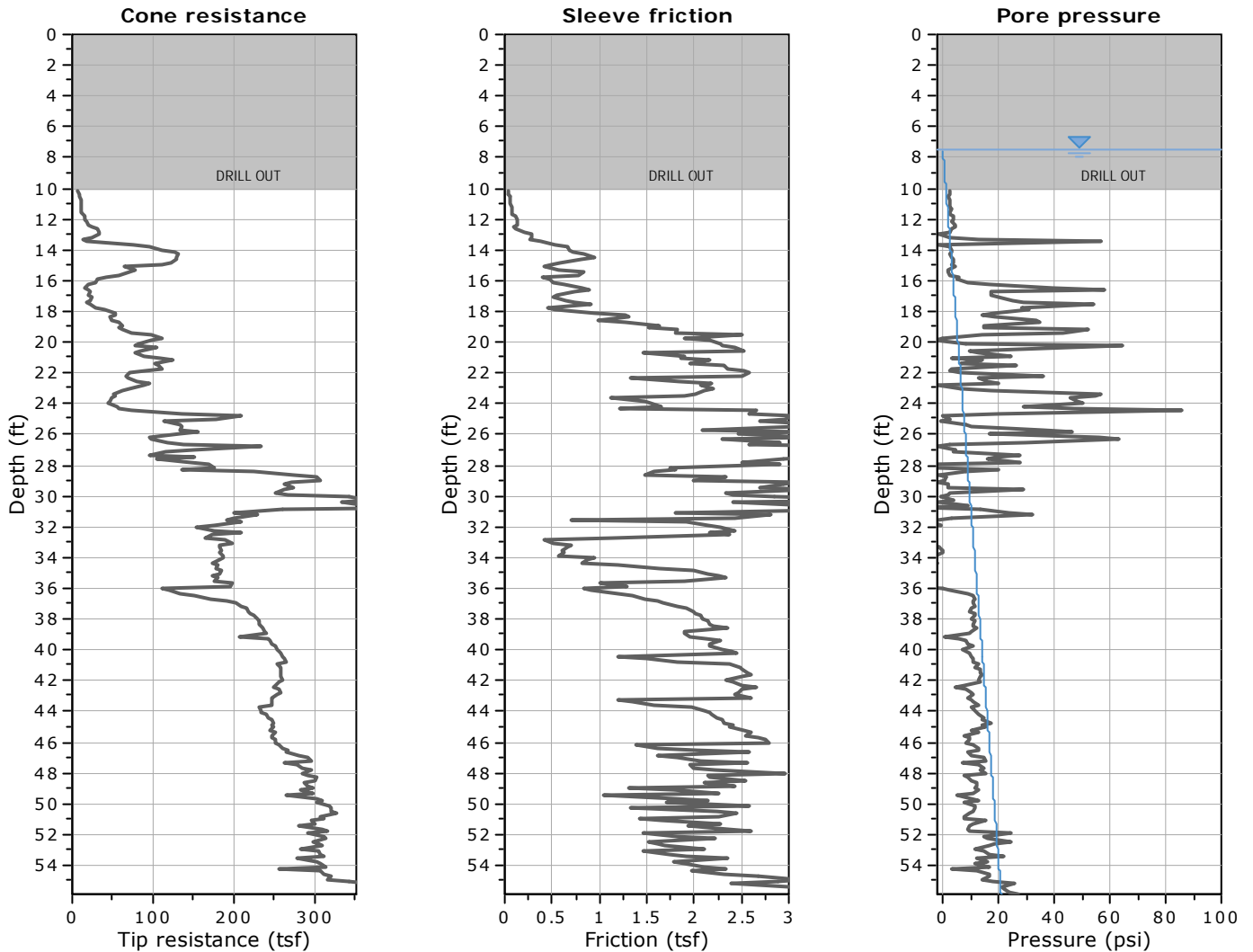
### SEISMIC TEST



Hammer to Rod String Distance (ft): 3.28

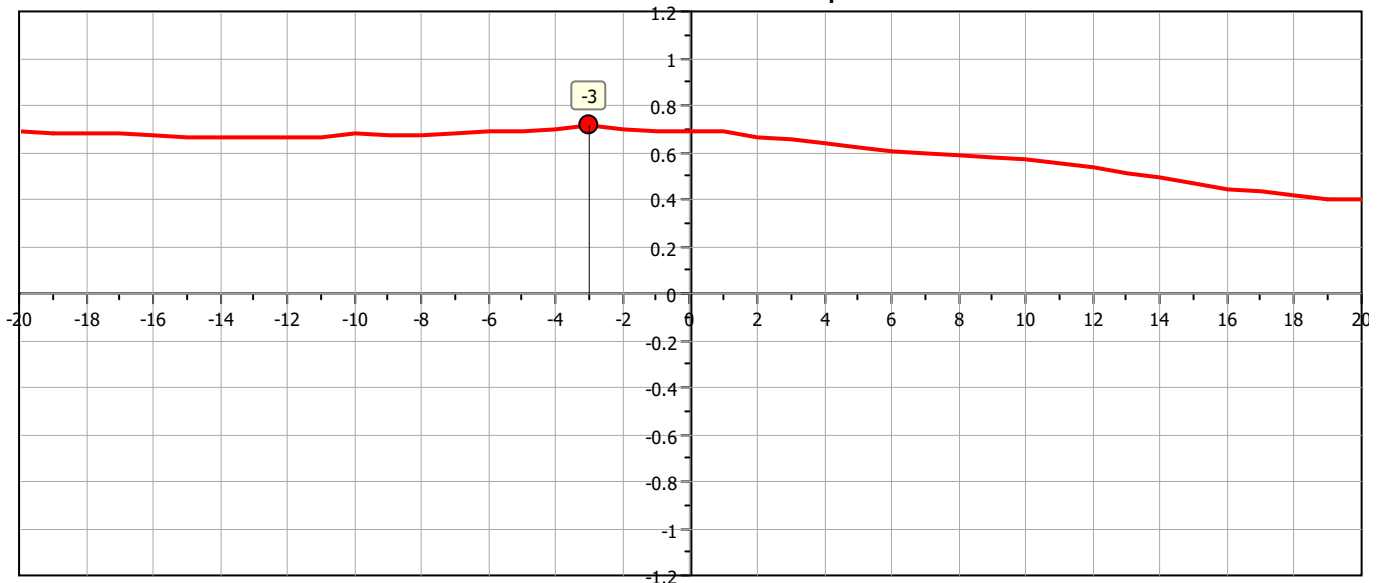
\* = Not Determined

COMMENT:



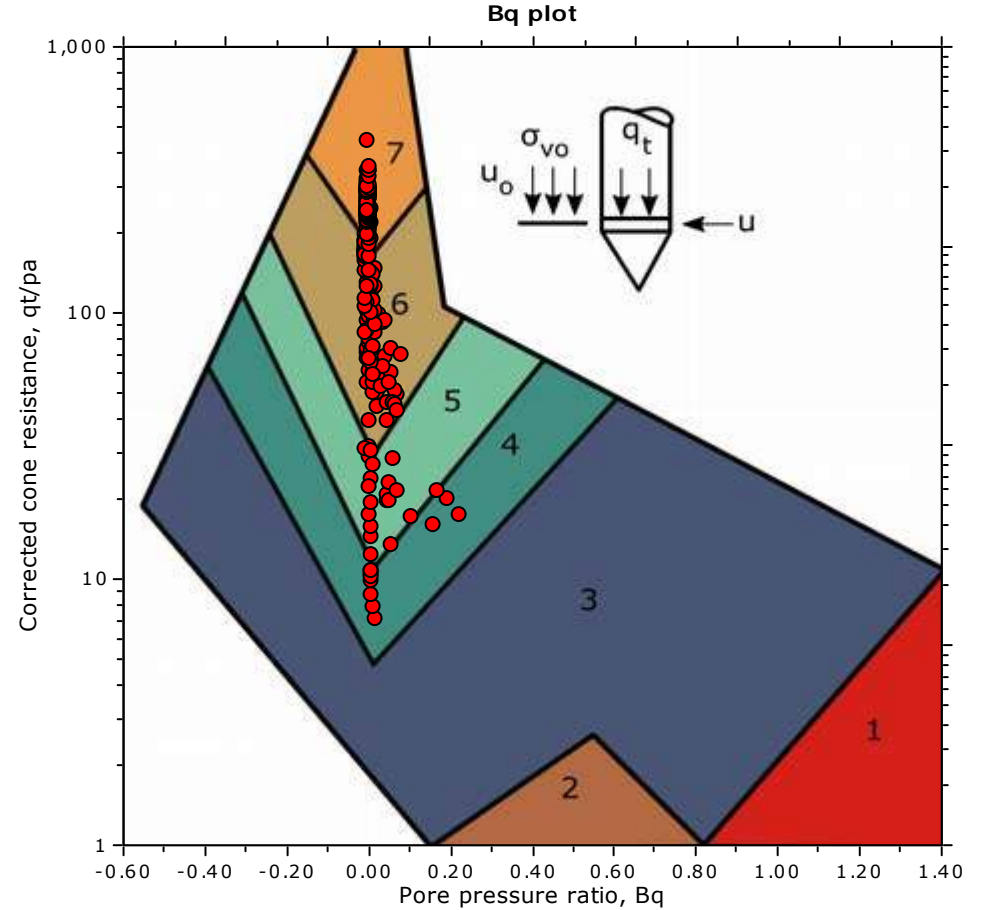
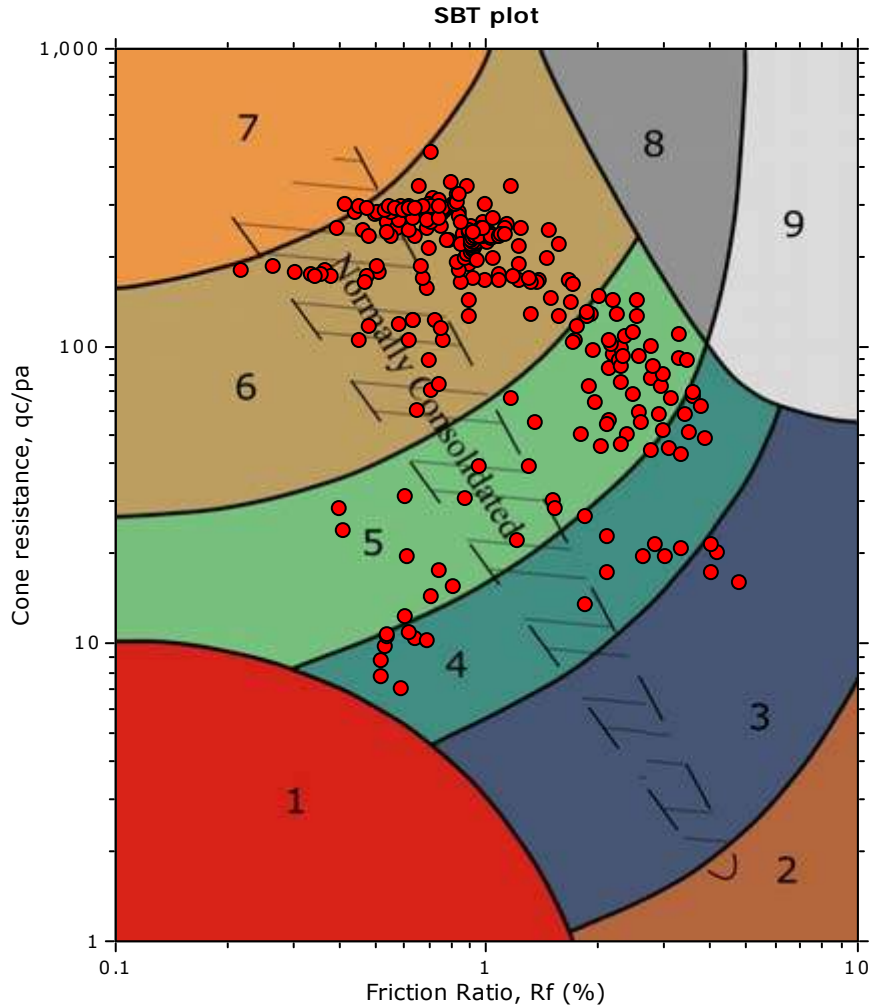
The plot below presents the cross correlation coefficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two successive CPT measurements).

Cross correlation between qc & fs





**SBT - Bq plots**

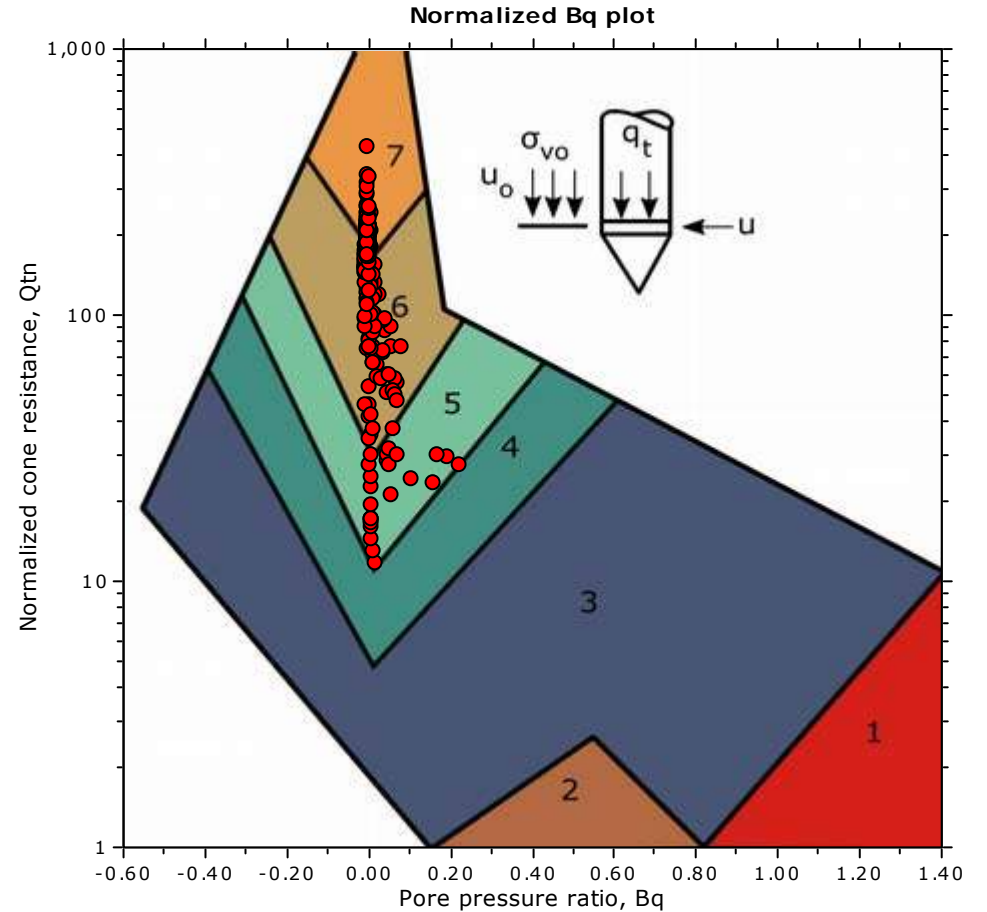
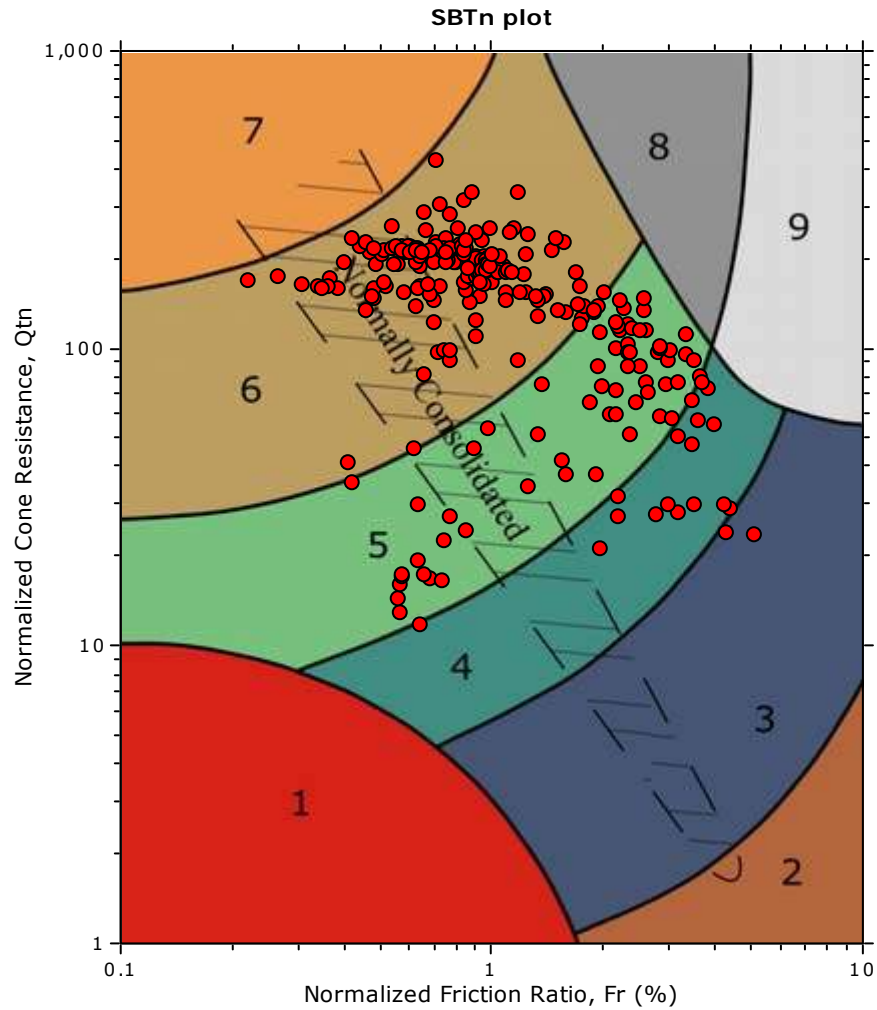


**SBT legend**

- |                                                              |                                                                       |                                                                       |
|--------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| <span style="color: red;">■</span> 1. Sensitive fine grained | <span style="color: teal;">■</span> 4. Clayey silt to silty clay      | <span style="color: orange;">■</span> 7. Gravelly sand to sand        |
| <span style="color: brown;">■</span> 2. Organic material     | <span style="color: lightgreen;">■</span> 5. Silty sand to sandy silt | <span style="color: grey;">■</span> 8. Very stiff sand to clayey sand |
| <span style="color: blue;">■</span> 3. Clay to silty clay    | <span style="color: tan;">■</span> 6. Clean sand to silty sand        | <span style="color: lightgrey;">■</span> 9. Very stiff fine grained   |



**SBT - Bq plots (normalized)**

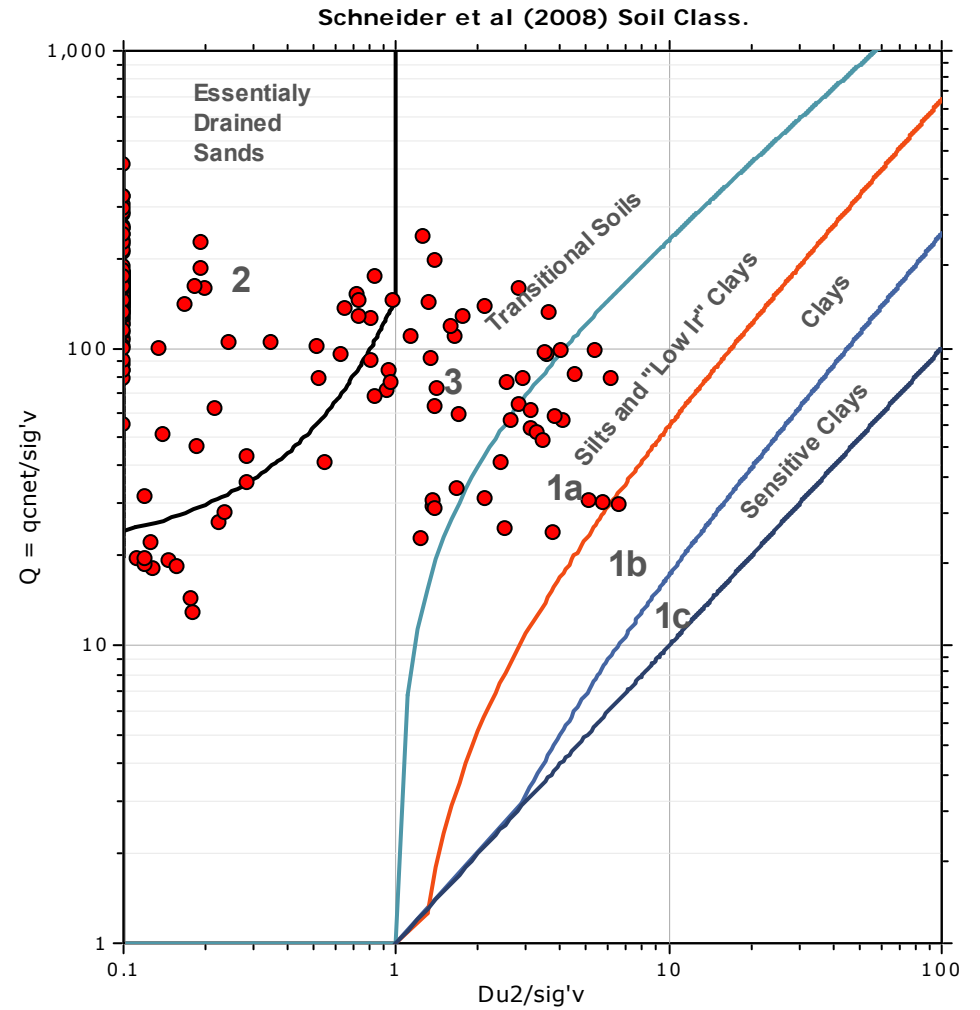
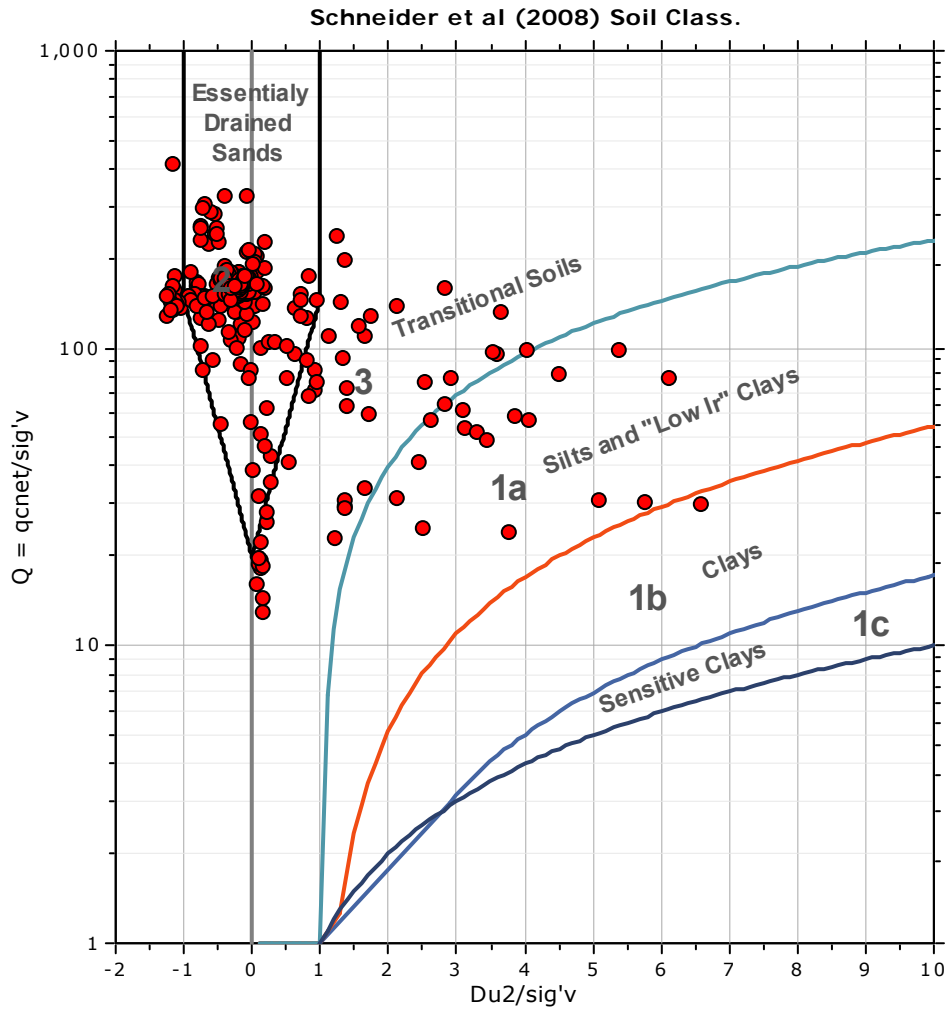


**SBTn legend**

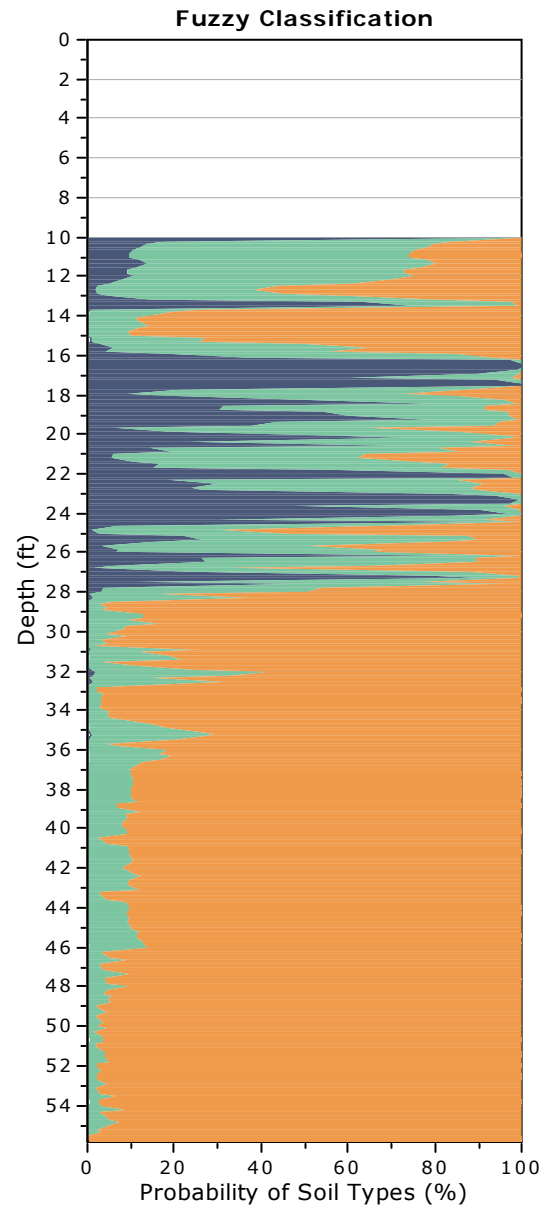
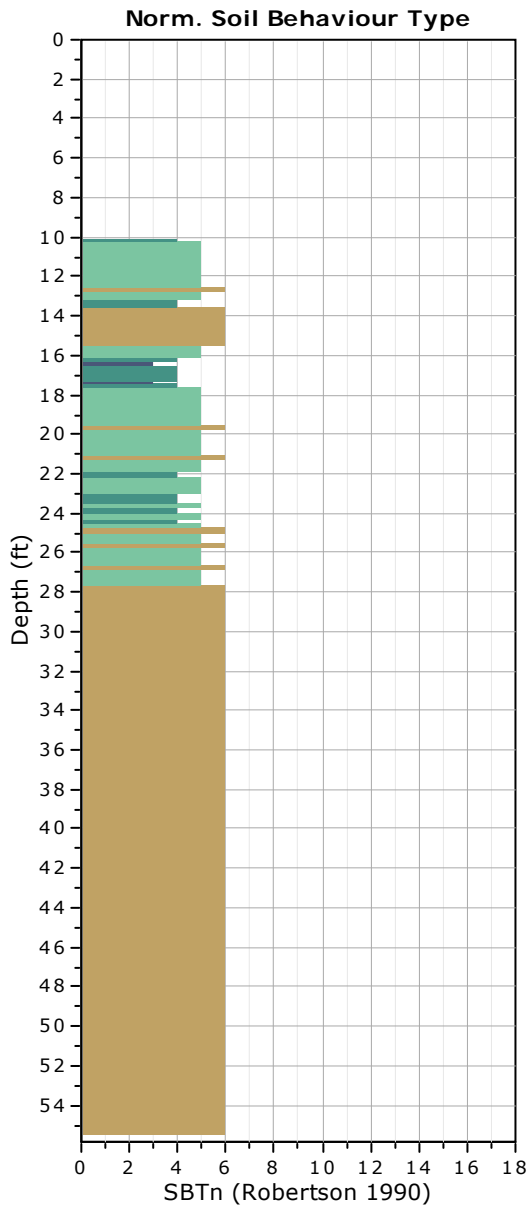
- |                                                              |                                                                       |                                                                       |
|--------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| <span style="color: red;">■</span> 1. Sensitive fine grained | <span style="color: teal;">■</span> 4. Clayey silt to silty clay      | <span style="color: orange;">■</span> 7. Gravelly sand to sand        |
| <span style="color: brown;">■</span> 2. Organic material     | <span style="color: lightgreen;">■</span> 5. Silty sand to sandy silt | <span style="color: grey;">■</span> 8. Very stiff sand to clayey sand |
| <span style="color: blue;">■</span> 3. Clay to silty clay    | <span style="color: tan;">■</span> 6. Clean sand to silty sand        | <span style="color: lightgrey;">■</span> 9. Very stiff fine grained   |



### Bq plots (Schneider)

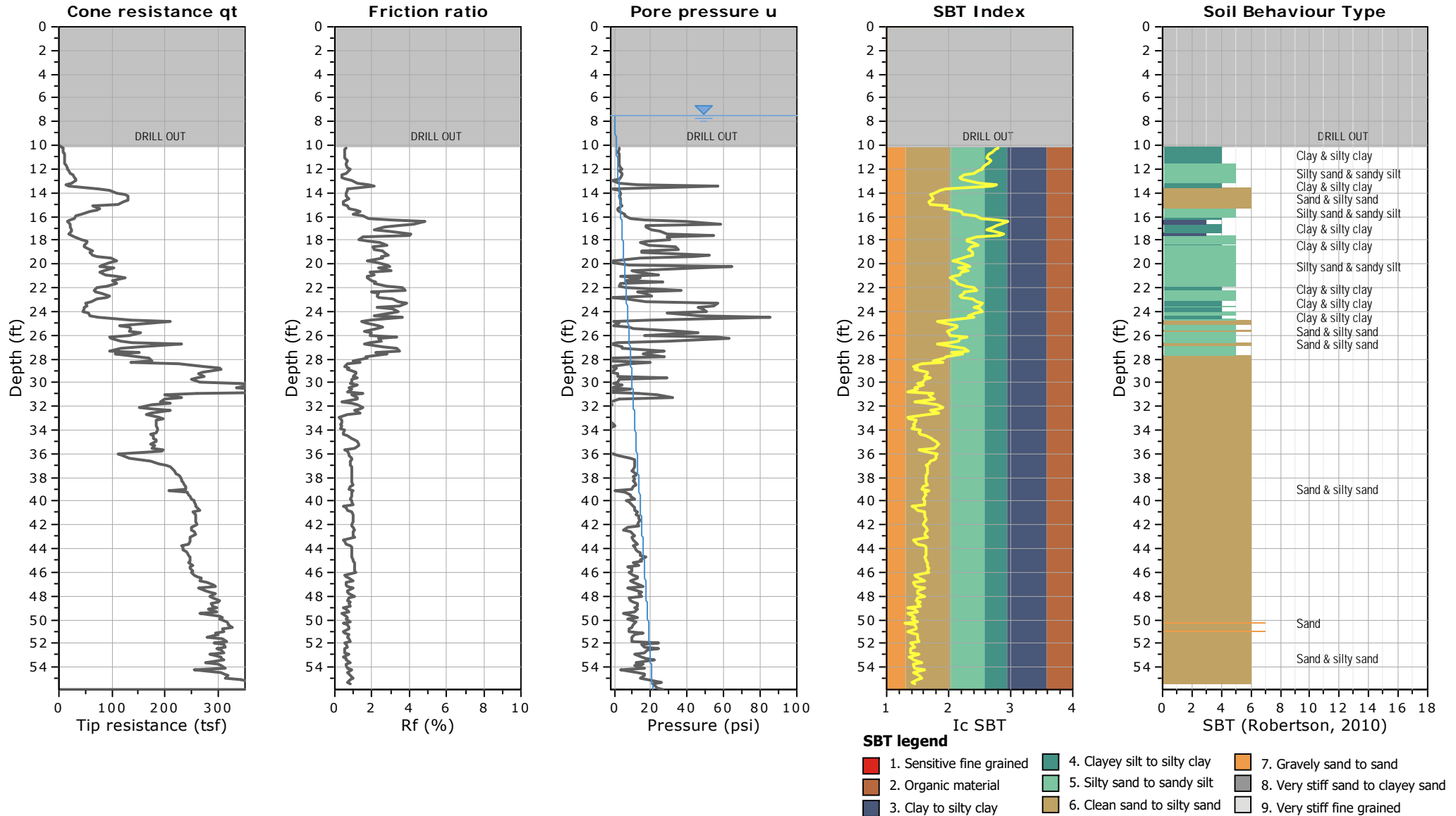


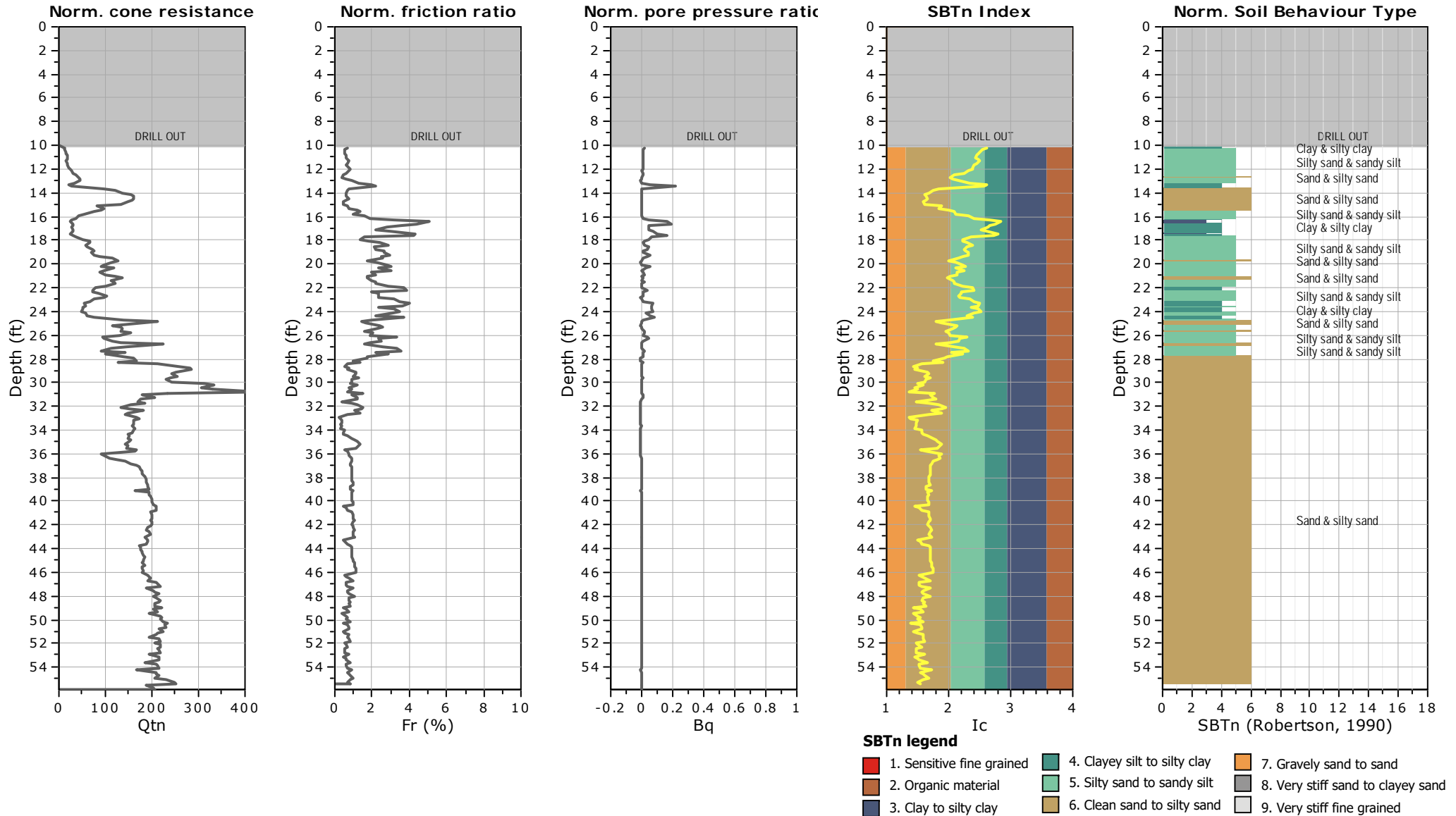


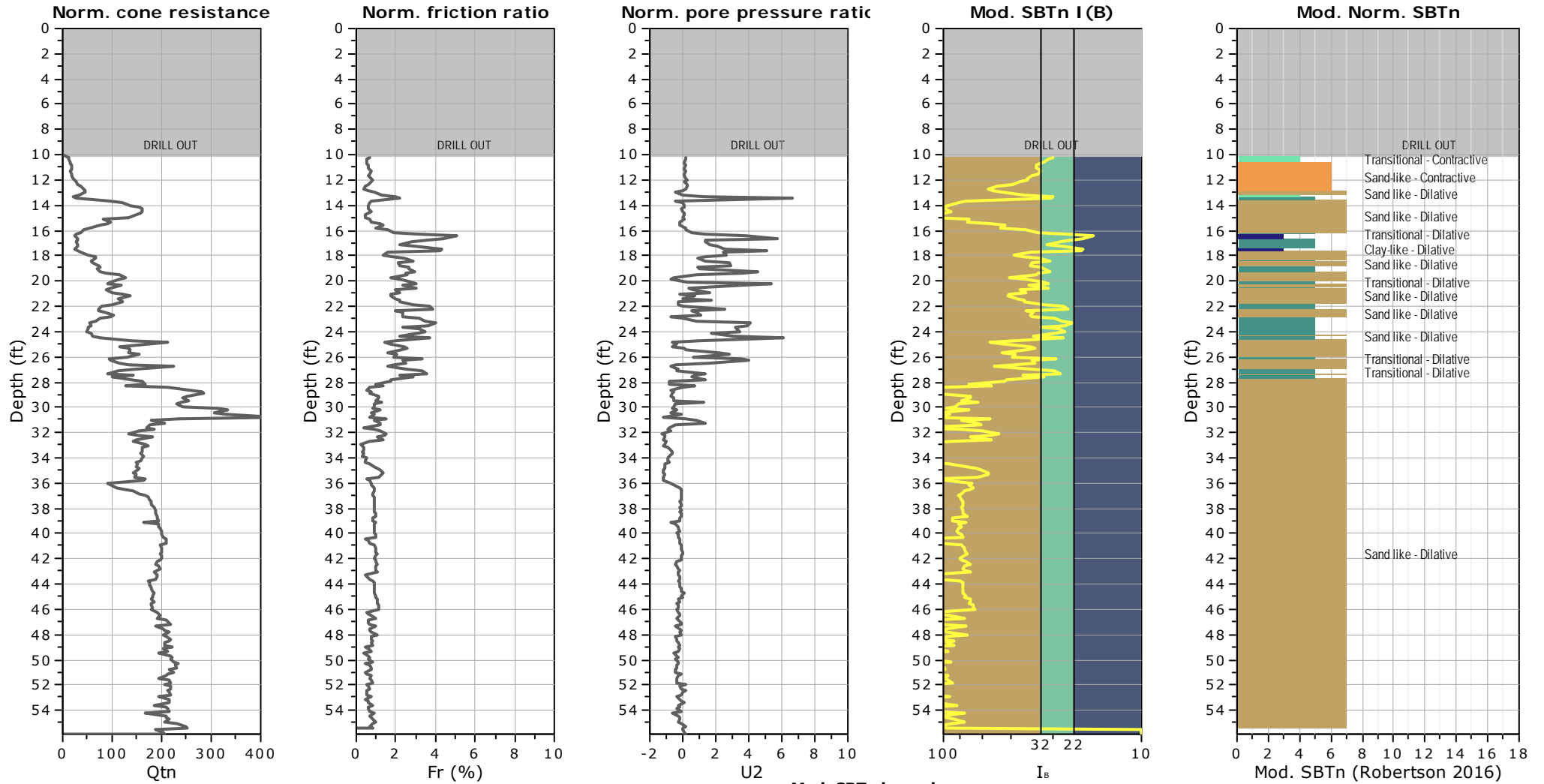


**Fuzzy classification legend**

- Highly probable clayey soil
- Highly probable mixture soil
- Highly probable sandy soil



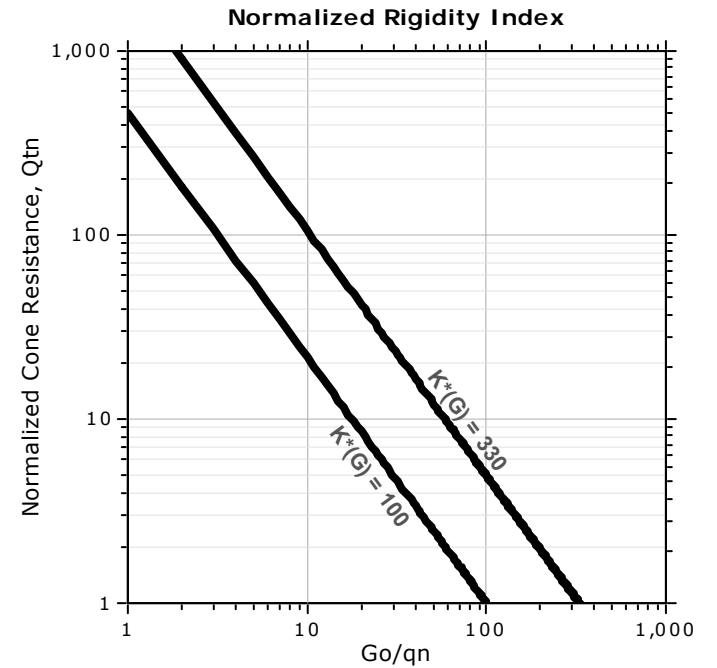
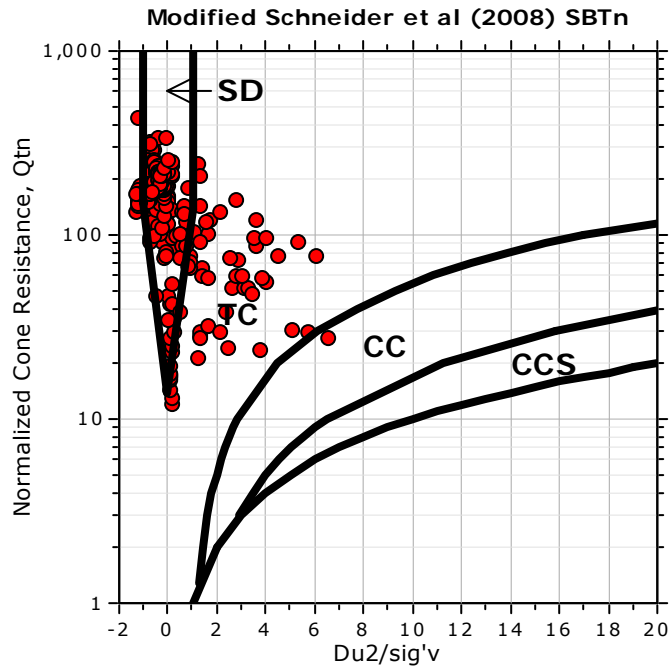
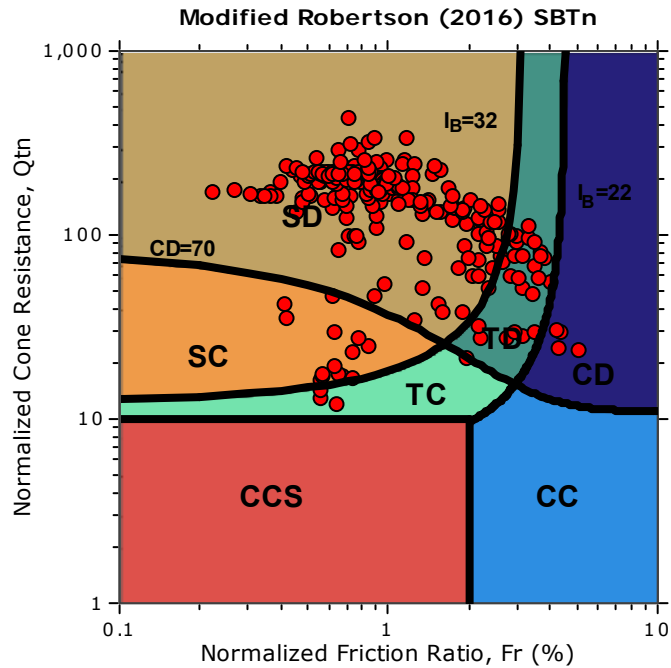




- Mod. SBTn legend**
- 1. CCS: ClayLike - Contractive, Sensitive
  - 2. CC: Clay-like - Contractive
  - 3. CD: Clay-Like: Dilative
  - 4. TC: Transitional - Contractive
  - 5. TD: Transitional - Dilative
  - 6. SC: Sand-like - Contractive
  - 7. SD: Sand-like - Dilative

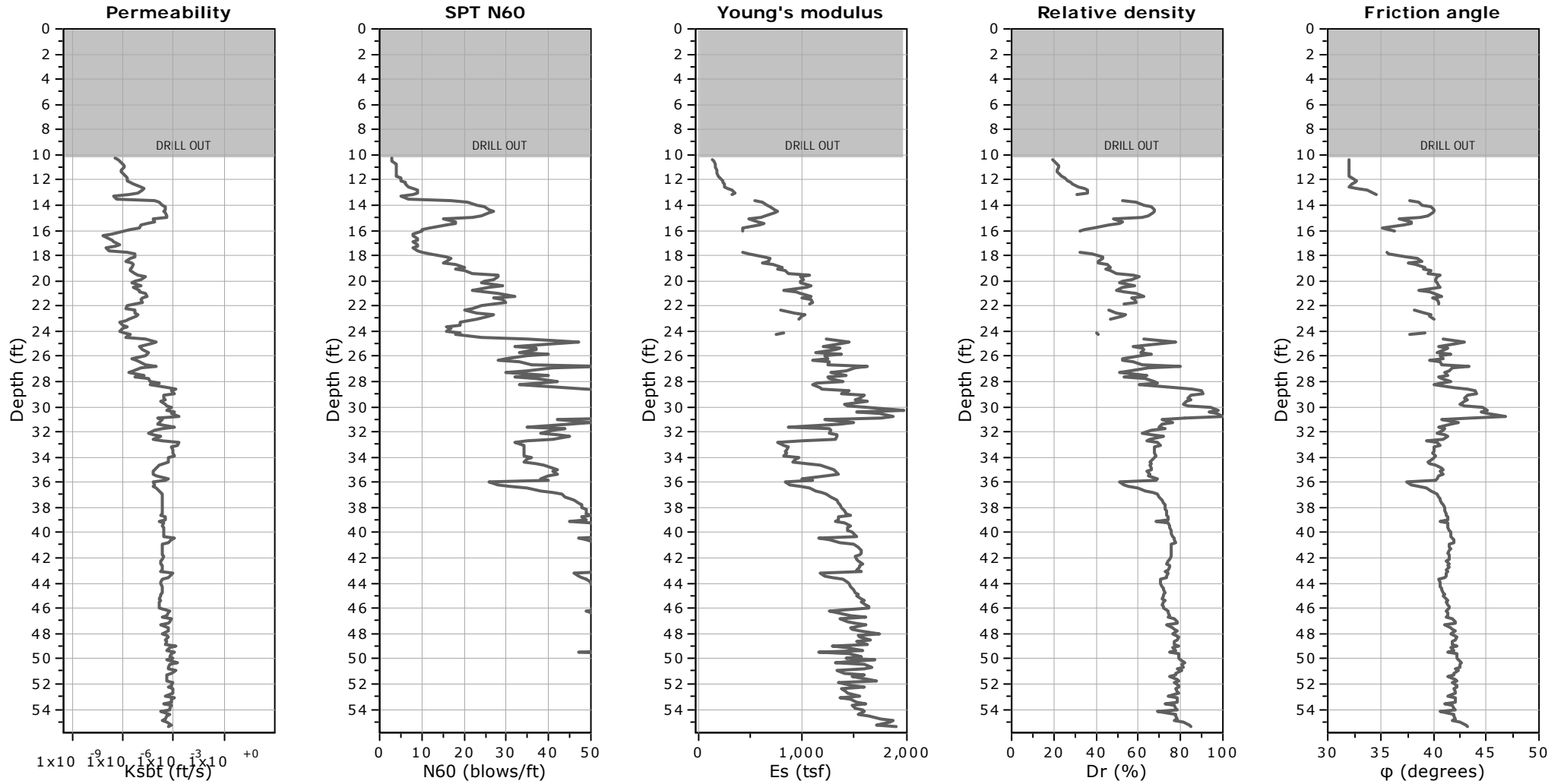


**Updated SBTn plots**



- CCS: Clay-like - Contractive - Sensitive
- CC: Clay-like - Contractive
- CD: Clay-like - Dilative
- TC: Transitional - Contractive
- TD: Transitional - Dilative
- SC: Sand-like - Contractive
- SD: Sand-like - Dilative

$K^*(G) > 330$ : Soils with significant microstructure (e.g. age/cementation)



**Calculation parameters**

Permeability: Based on  $SBT_n$

SPT  $N_{60}$ : Based on  $I_c$  and  $q_t$

Young's modulus: Based on variable alpha using  $I_c$  (Robertson, 2009)

Relative density constant,  $C_{Dr}$ : 350.0

Phi: Based on Kulhawy & Mayne (1990)

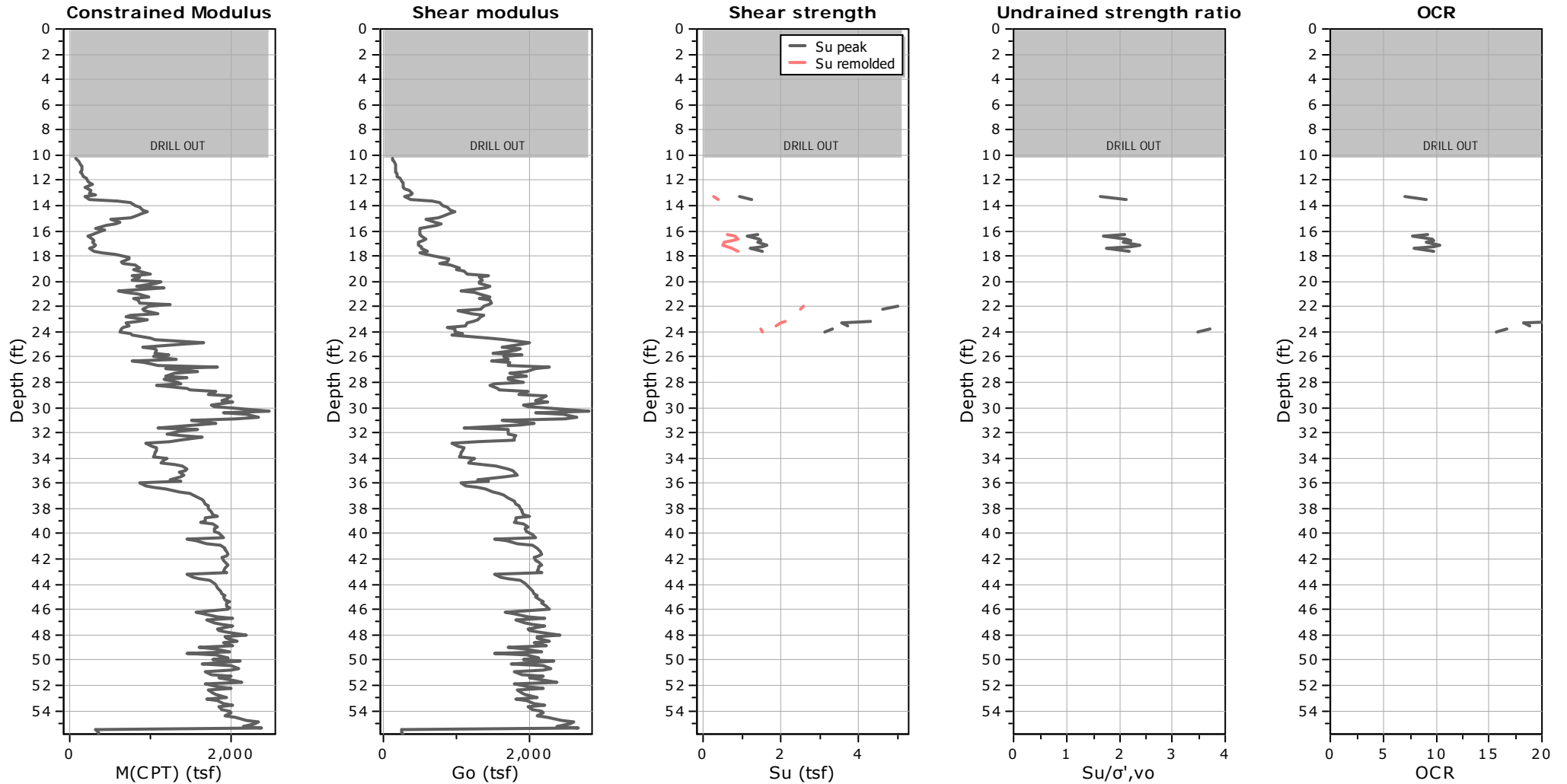


**Project: Langan**

**Location: 145 Wolcott St, Brooklyn NY**

**CPT-3**

Total depth: 55.87 ft



**Calculation parameters**

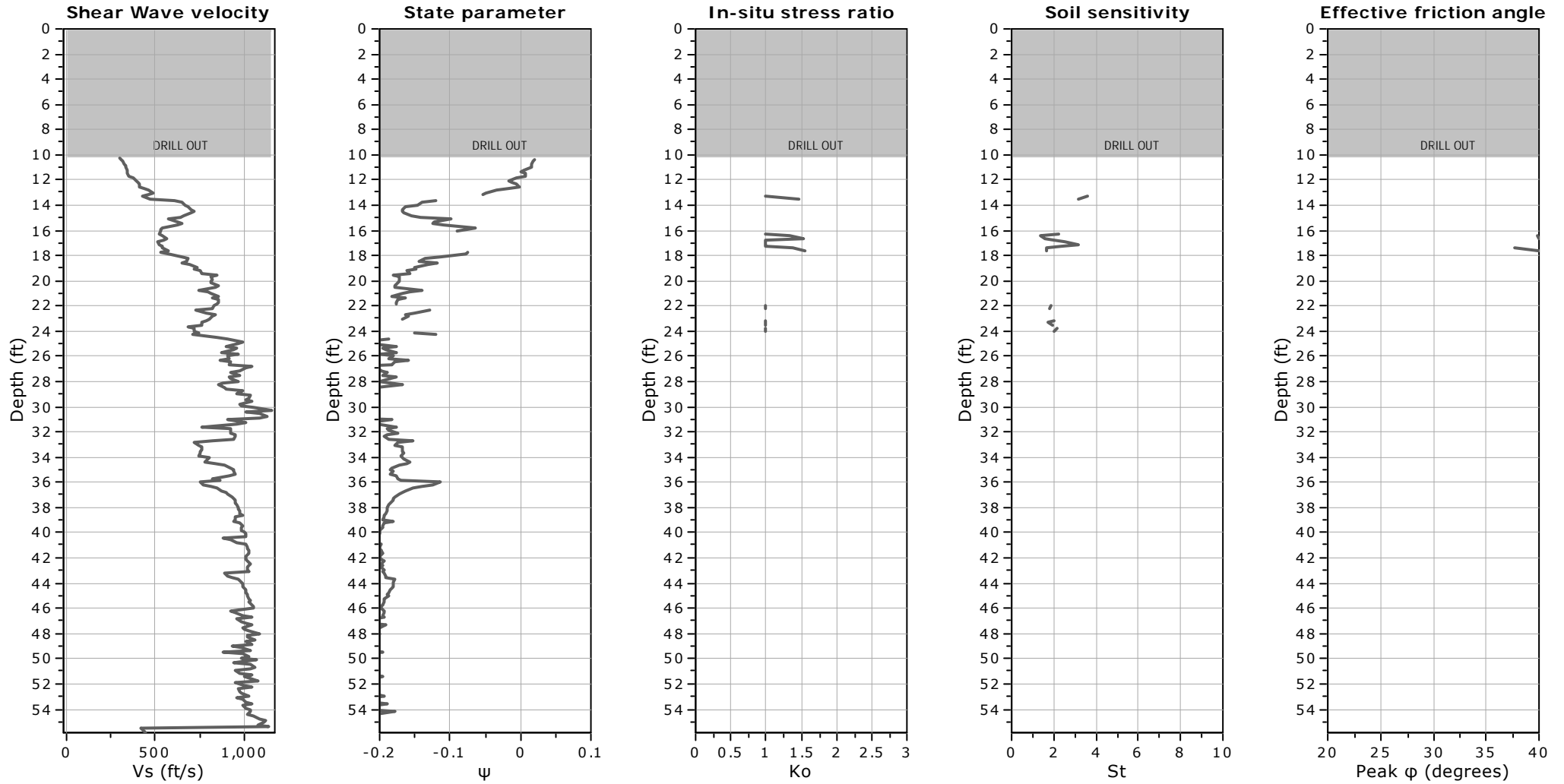
Constrained modulus: Based on variable  $\alpha$  using  $I_c$  and  $Q_{tn}$  (Robertson, 2009)

Go: Based on variable  $\alpha$  using  $I_c$  (Robertson, 2009)

Undrained shear strength cone factor for clays,  $N_{kt}$ : 14

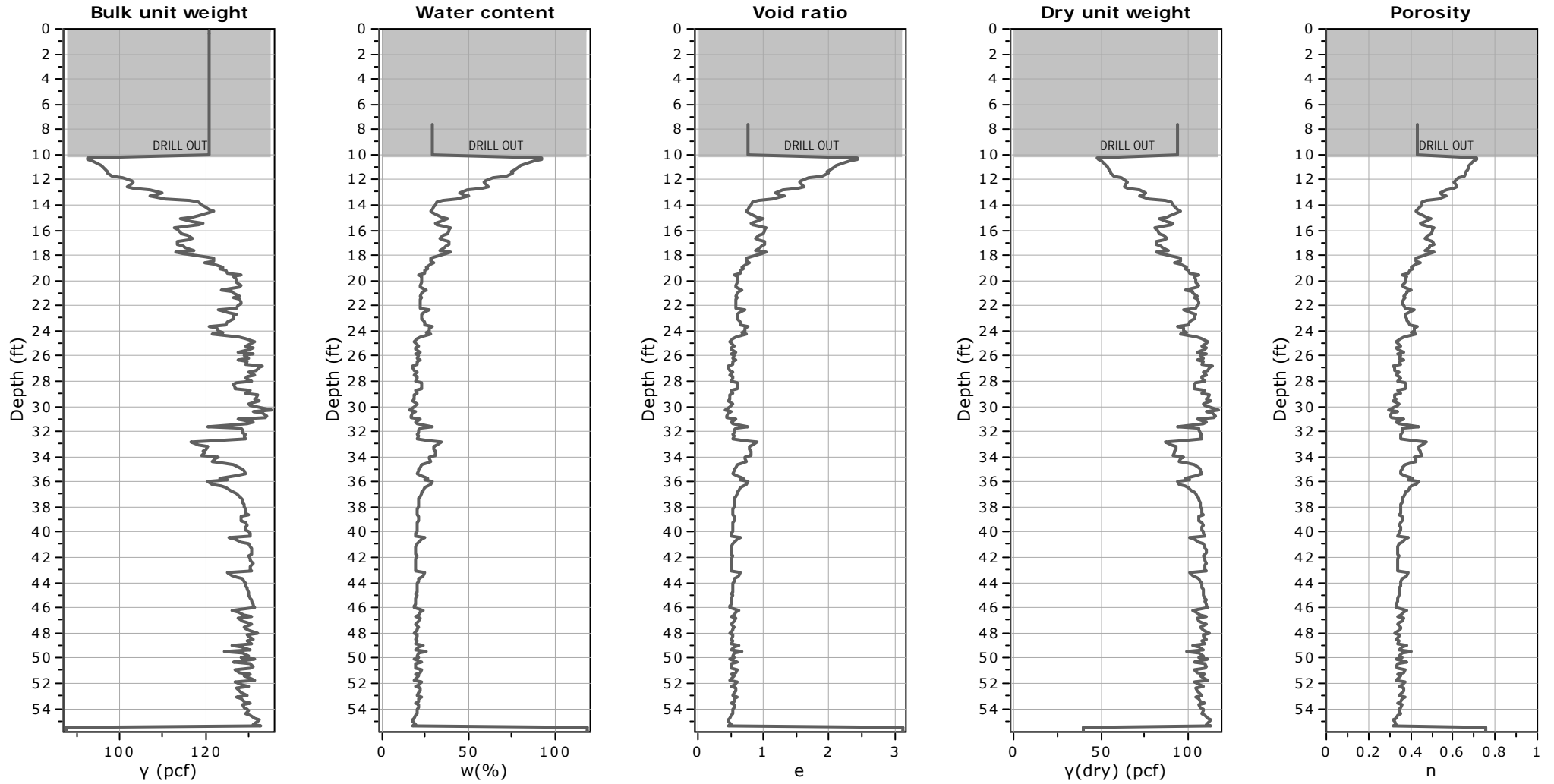
OCR factor for clays,  $N_{kt}$ : 0.33

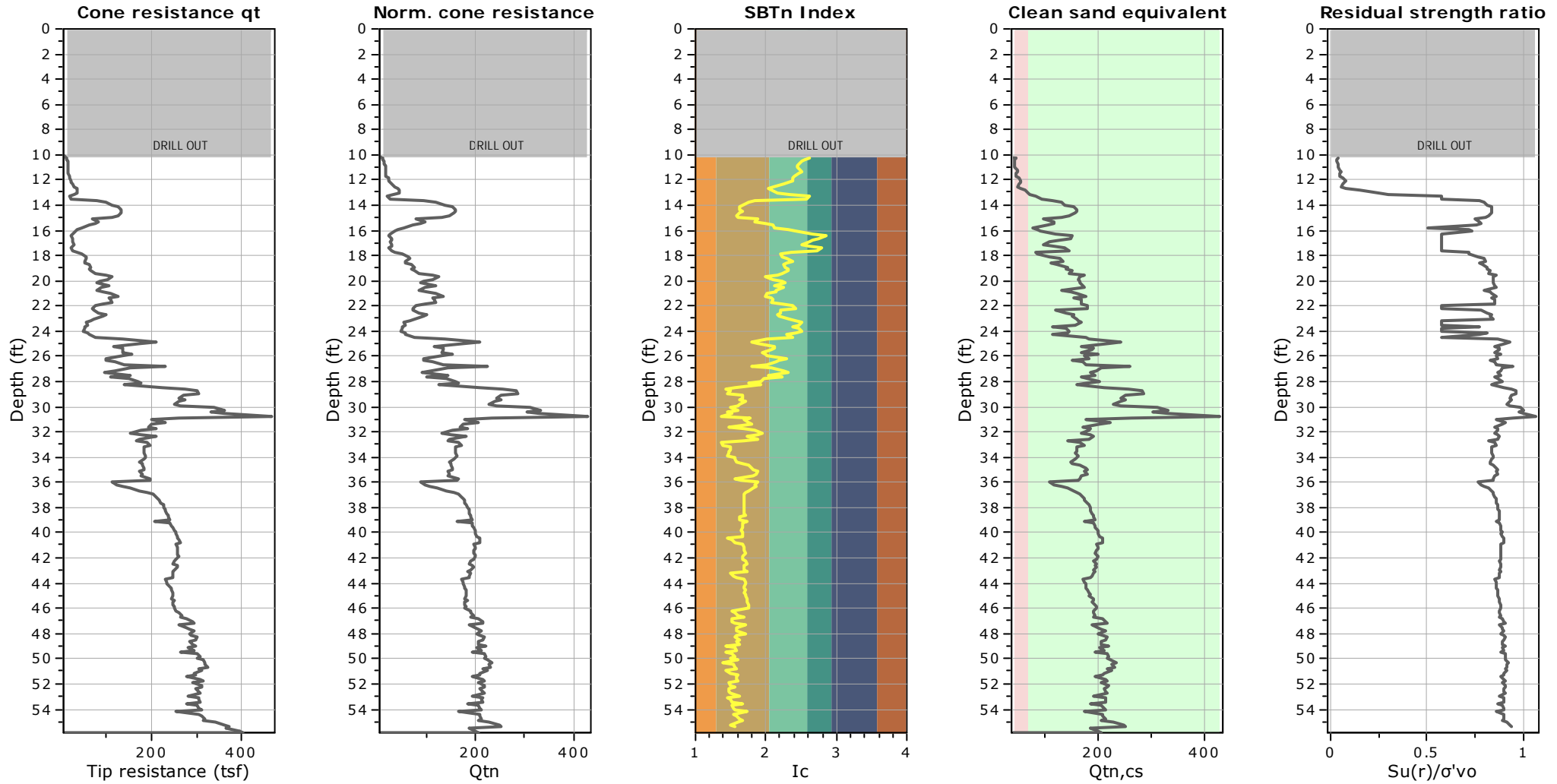
● Flat Dilatometer Test data



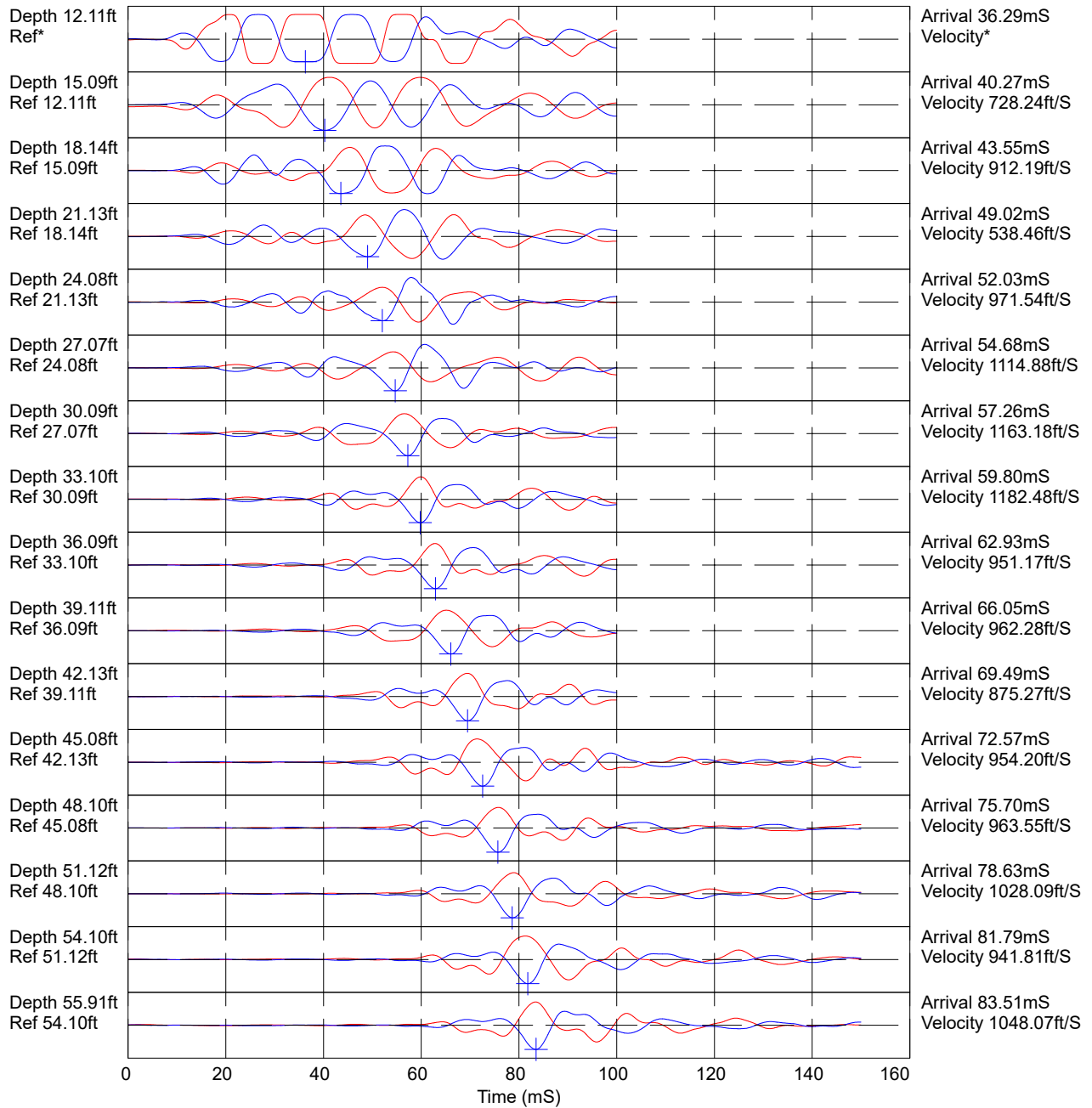
**Calculation parameters**  
Soil Sensitivity factor,  $N_s$ : 7.00





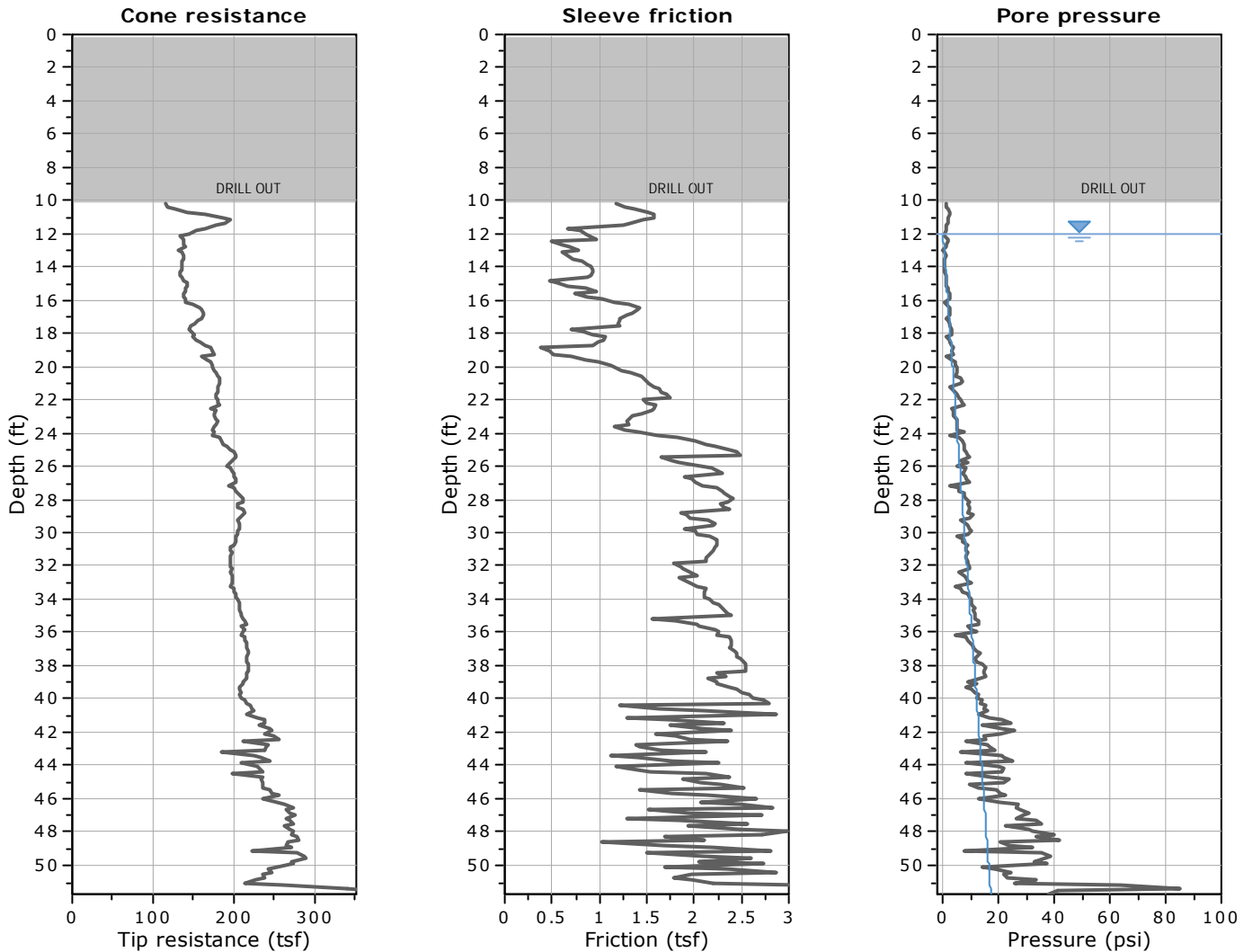


### SEISMIC TEST



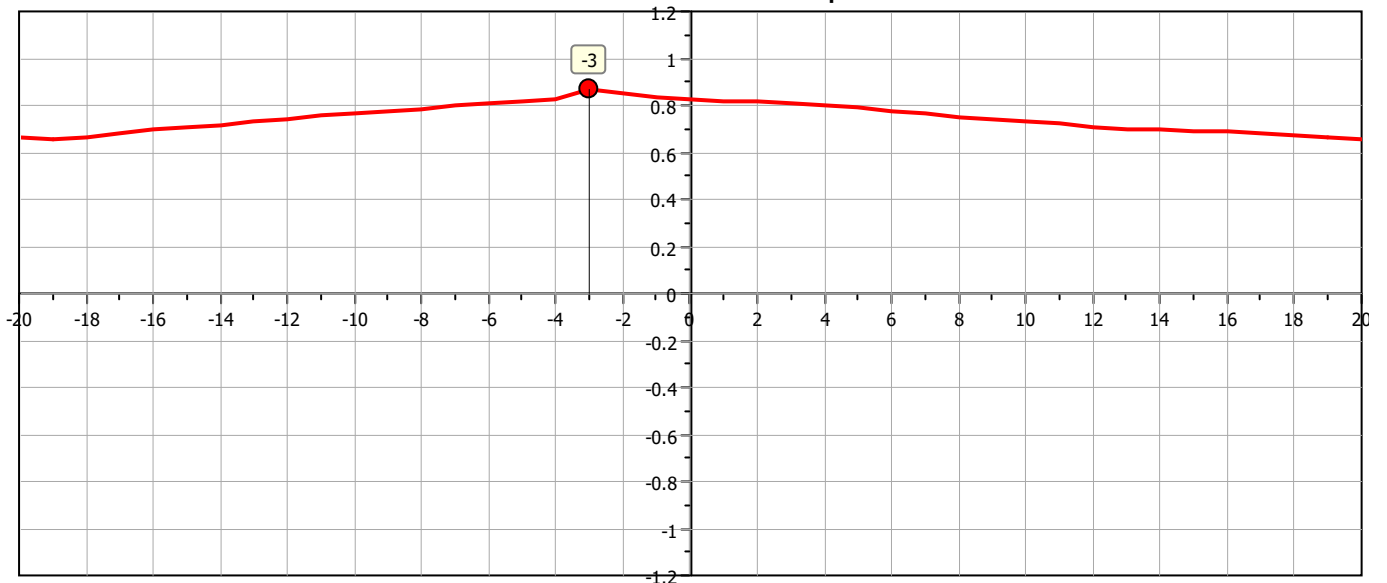
Hammer to Rod String Distance (ft): 3.28  
 \* = Not Determined

COMMENT:



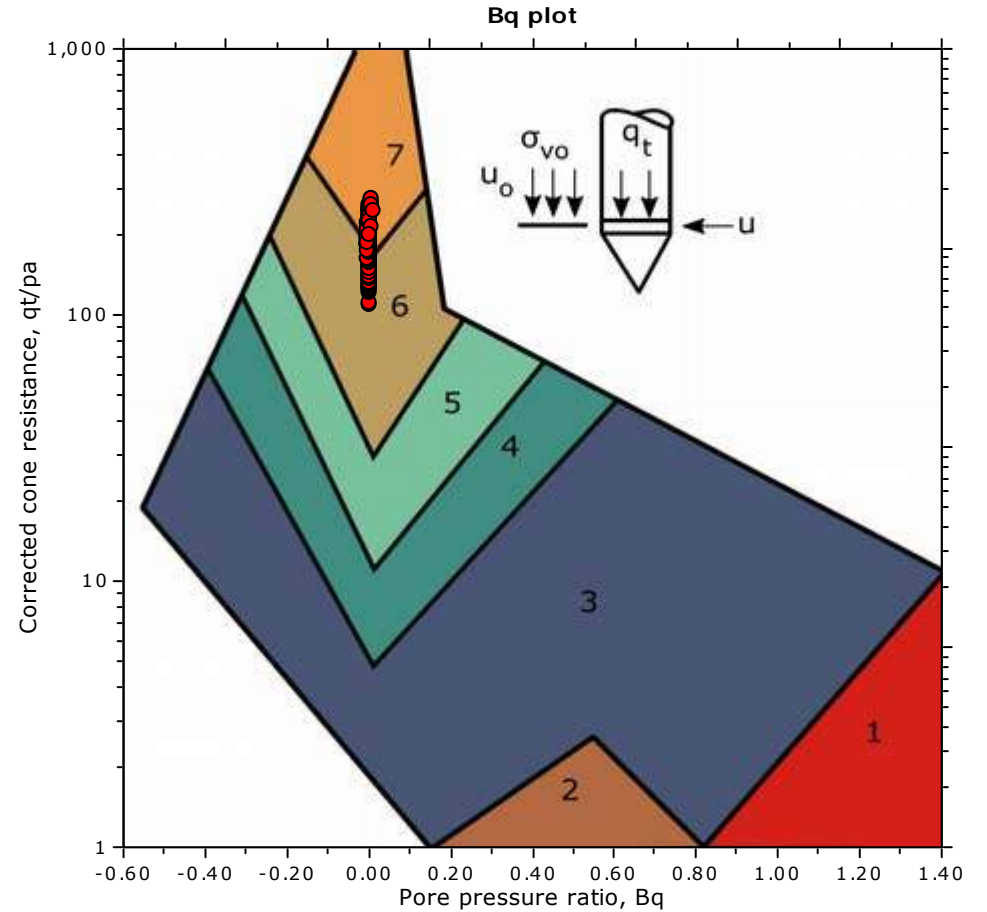
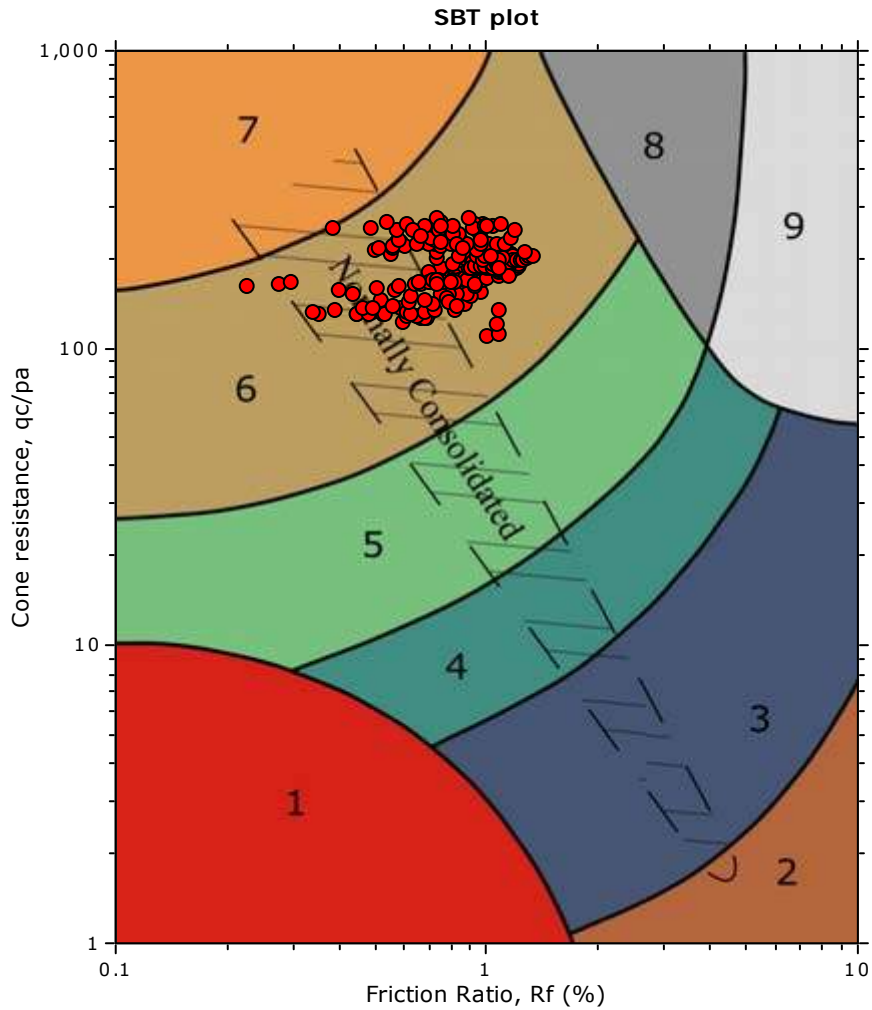
The plot below presents the cross correlation coefficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two successive CPT measurements).

Cross correlation between qc & fs





**SBT - Bq plots**

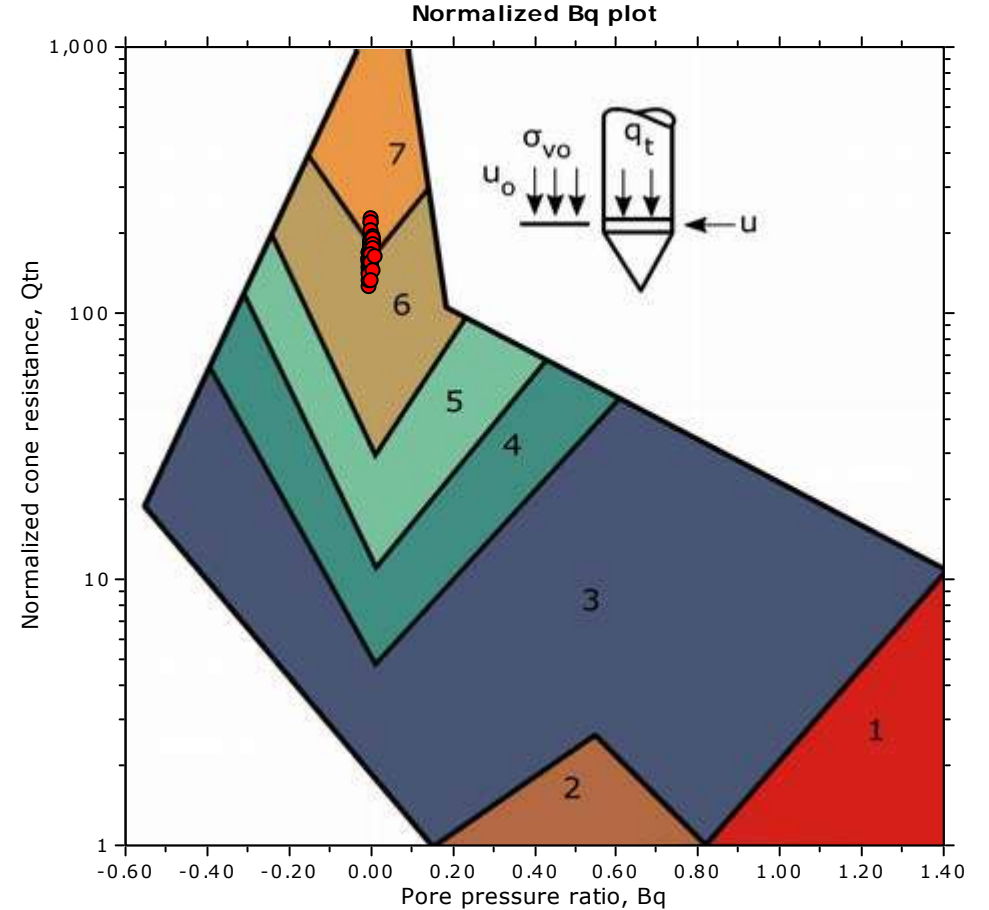
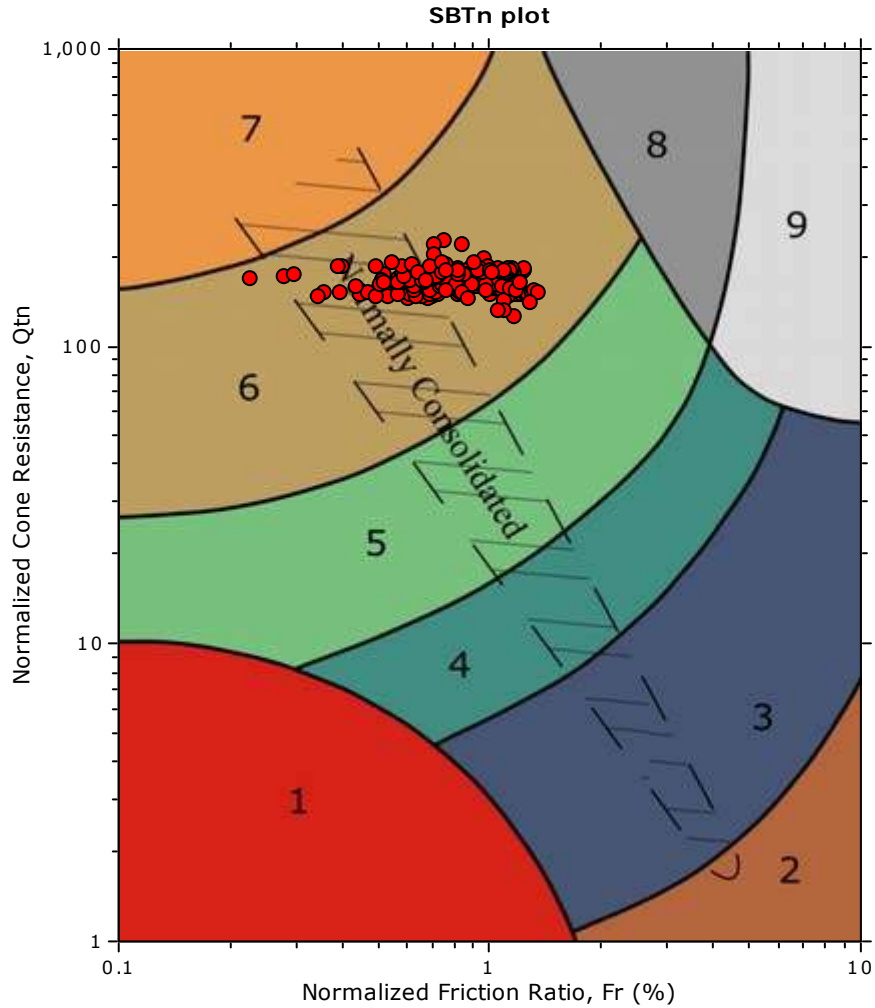


**SBT legend**

- |                           |                              |                                   |
|---------------------------|------------------------------|-----------------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty clay | 7. Gravelly sand to sand          |
| 2. Organic material       | 5. Silty sand to sandy silt  | 8. Very stiff sand to clayey sand |
| 3. Clay to silty clay     | 6. Clean sand to silty sand  | 9. Very stiff fine grained        |



**SBT - Bq plots (normalized)**

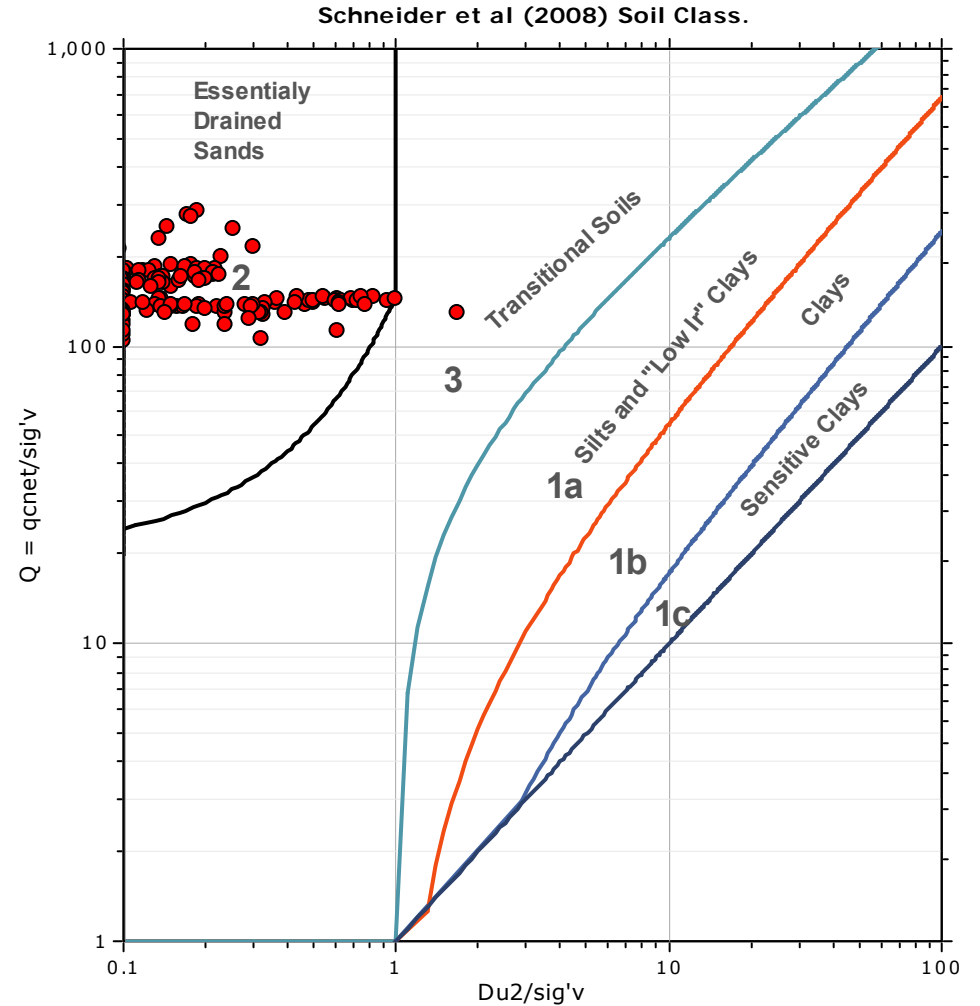
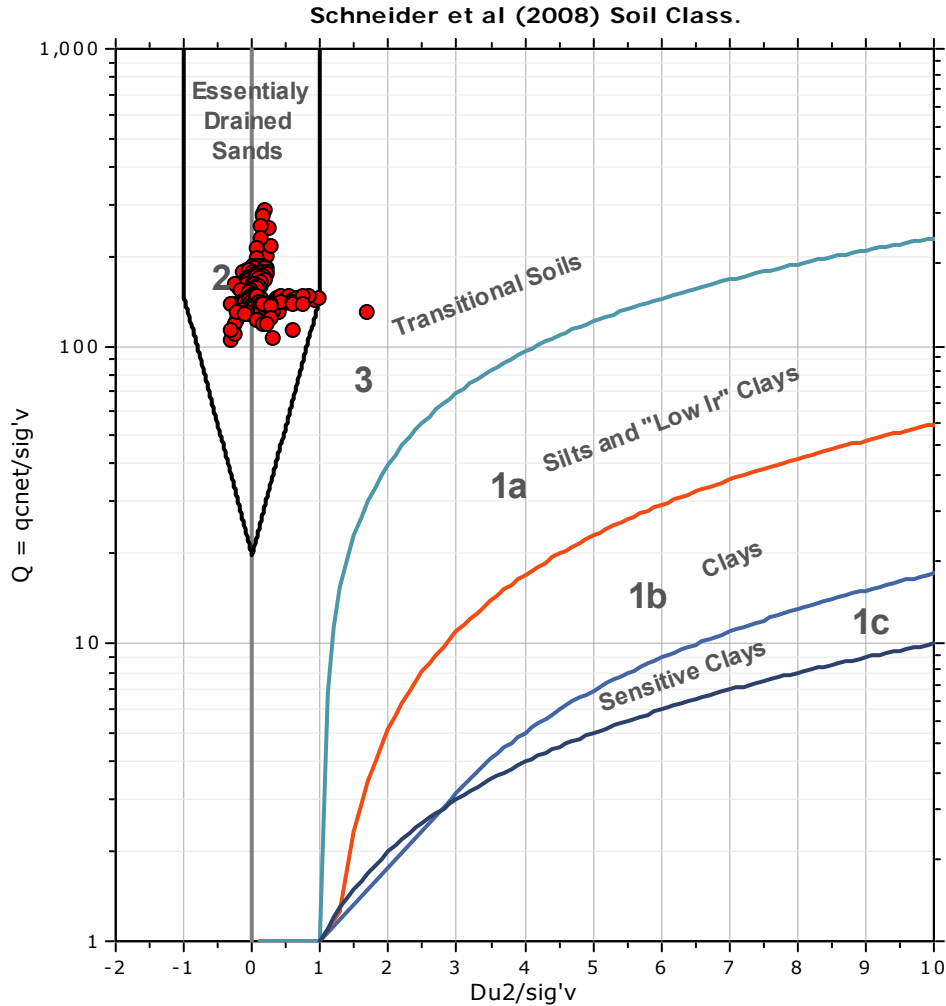


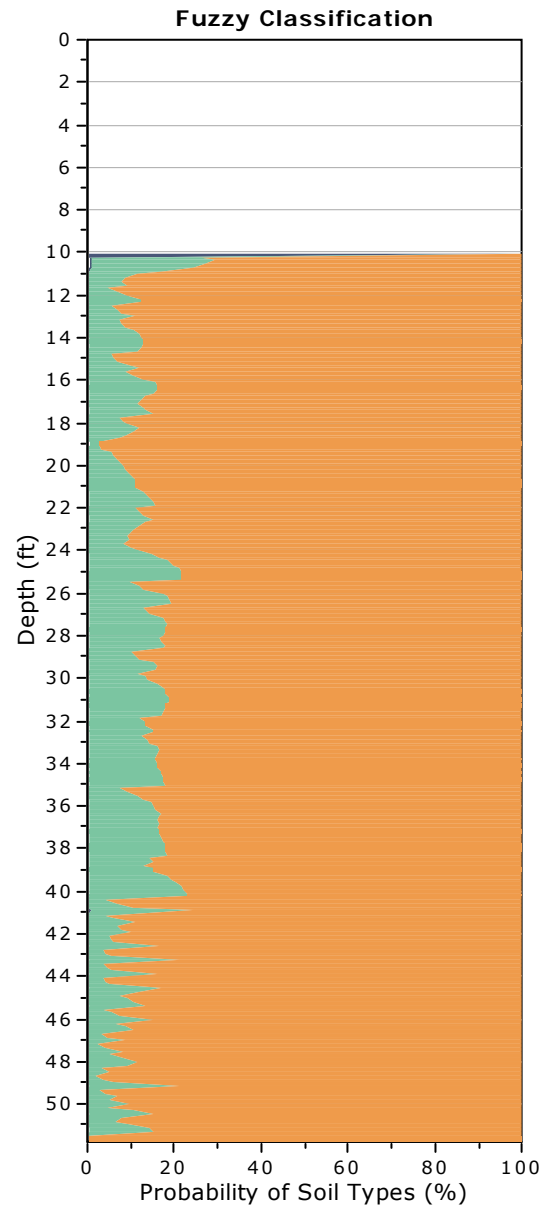
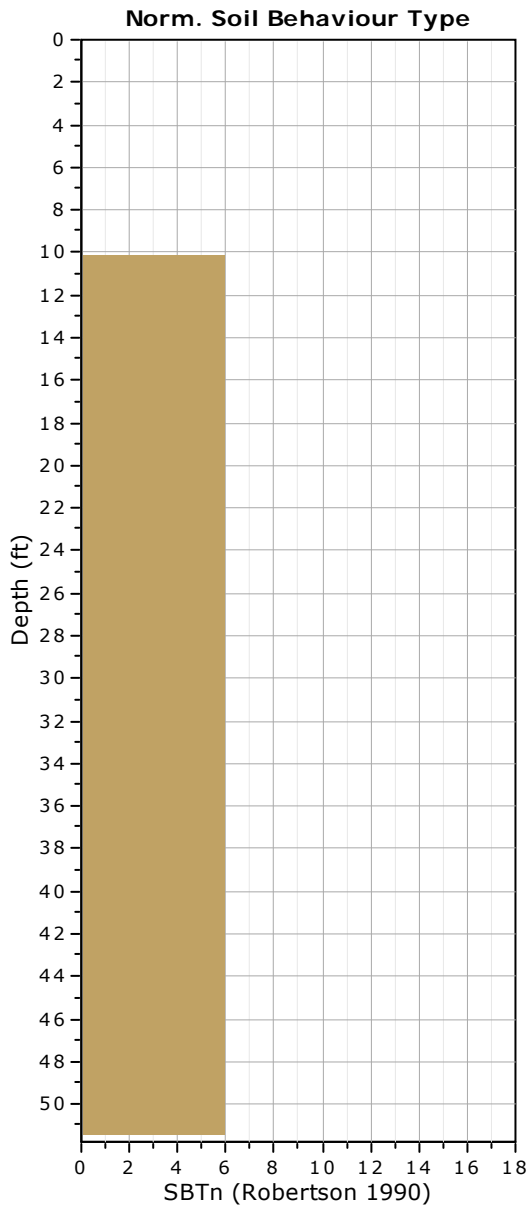
**SBTn legend**

- |                                                              |                                                                       |                                                                       |
|--------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| <span style="color: red;">■</span> 1. Sensitive fine grained | <span style="color: teal;">■</span> 4. Clayey silt to silty clay      | <span style="color: orange;">■</span> 7. Gravelly sand to sand        |
| <span style="color: brown;">■</span> 2. Organic material     | <span style="color: lightgreen;">■</span> 5. Silty sand to sandy silt | <span style="color: grey;">■</span> 8. Very stiff sand to clayey sand |
| <span style="color: blue;">■</span> 3. Clay to silty clay    | <span style="color: tan;">■</span> 6. Clean sand to silty sand        | <span style="color: lightgrey;">■</span> 9. Very stiff fine grained   |



### Bq plots (Schneider)

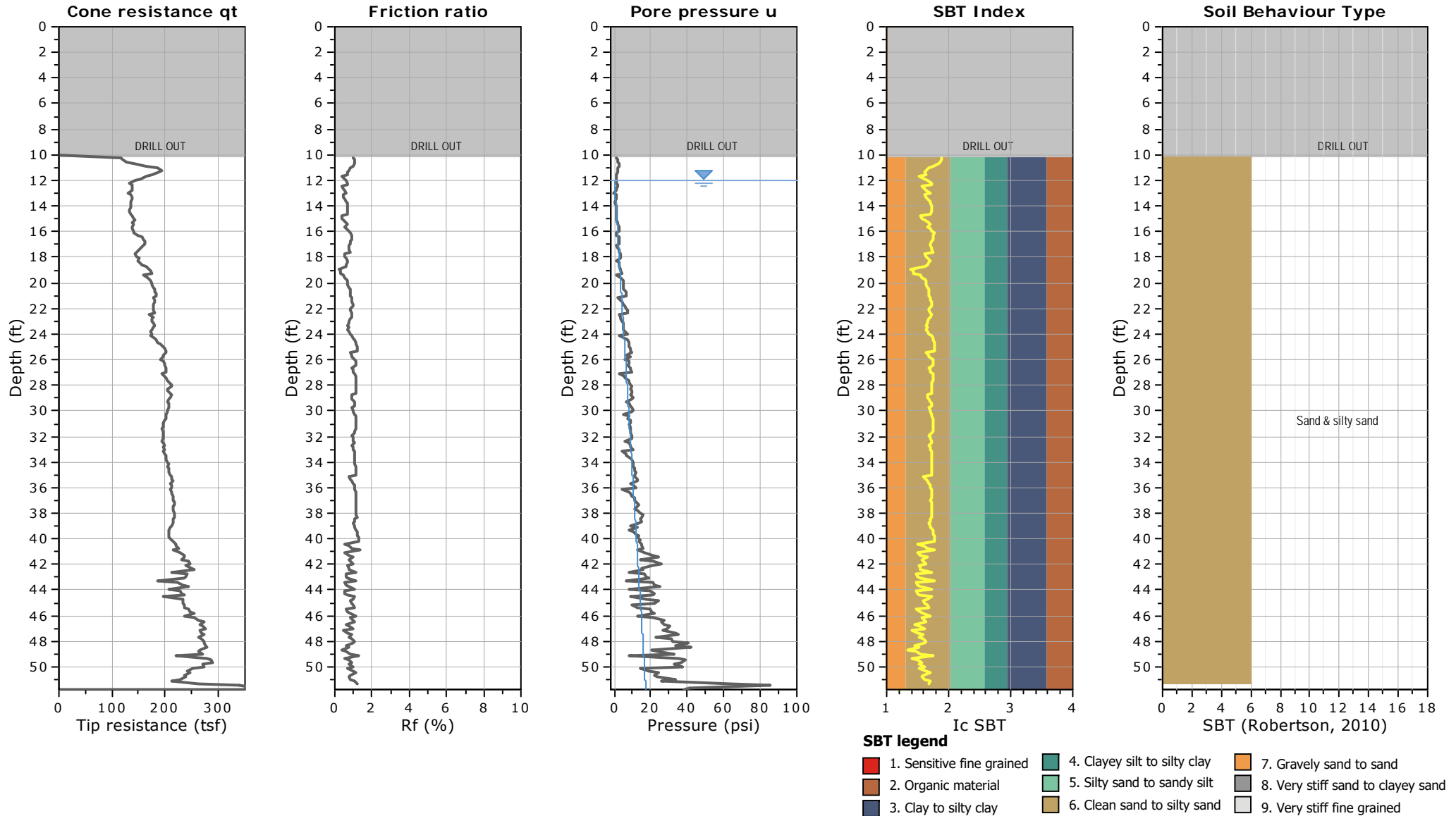


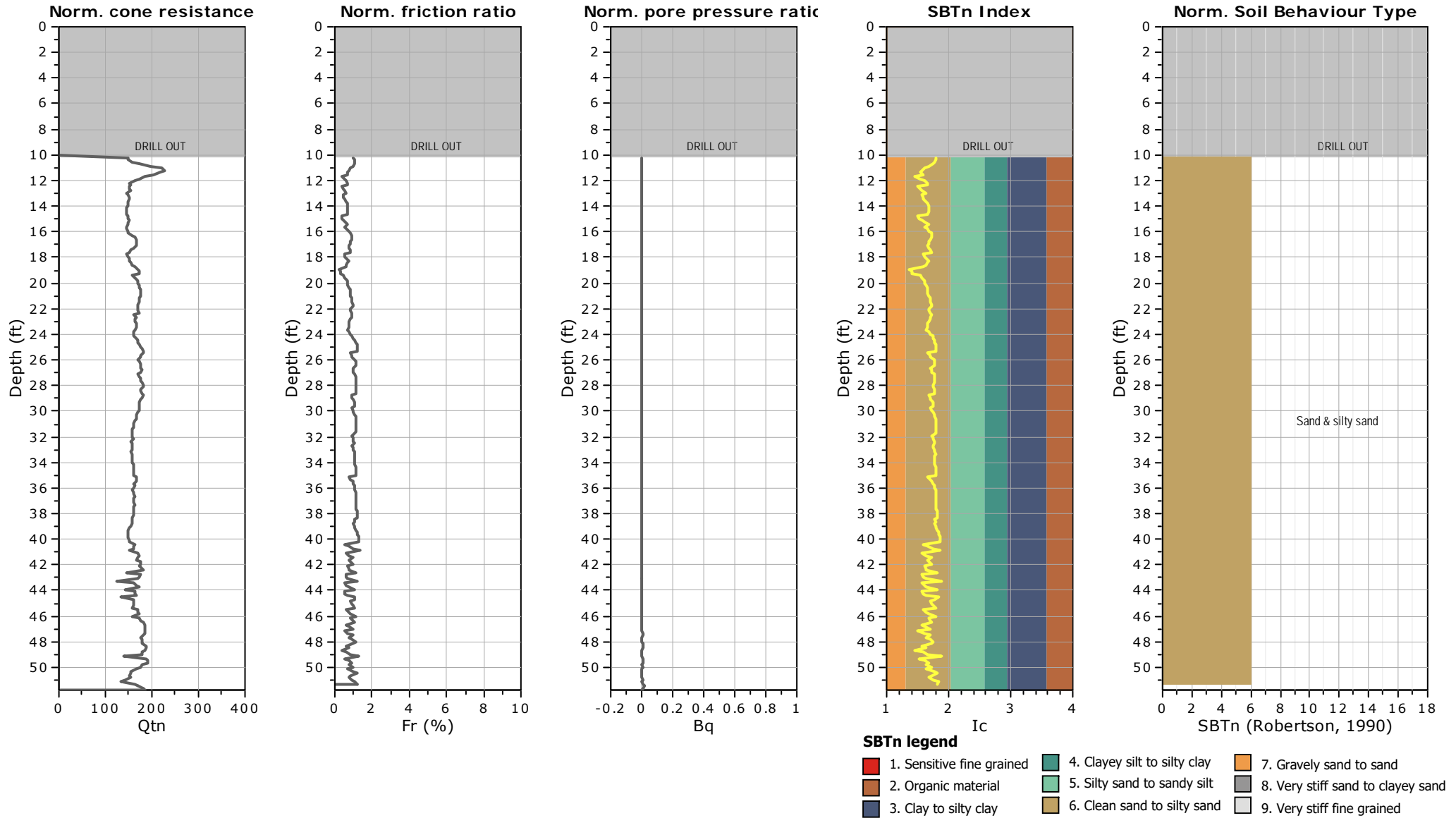


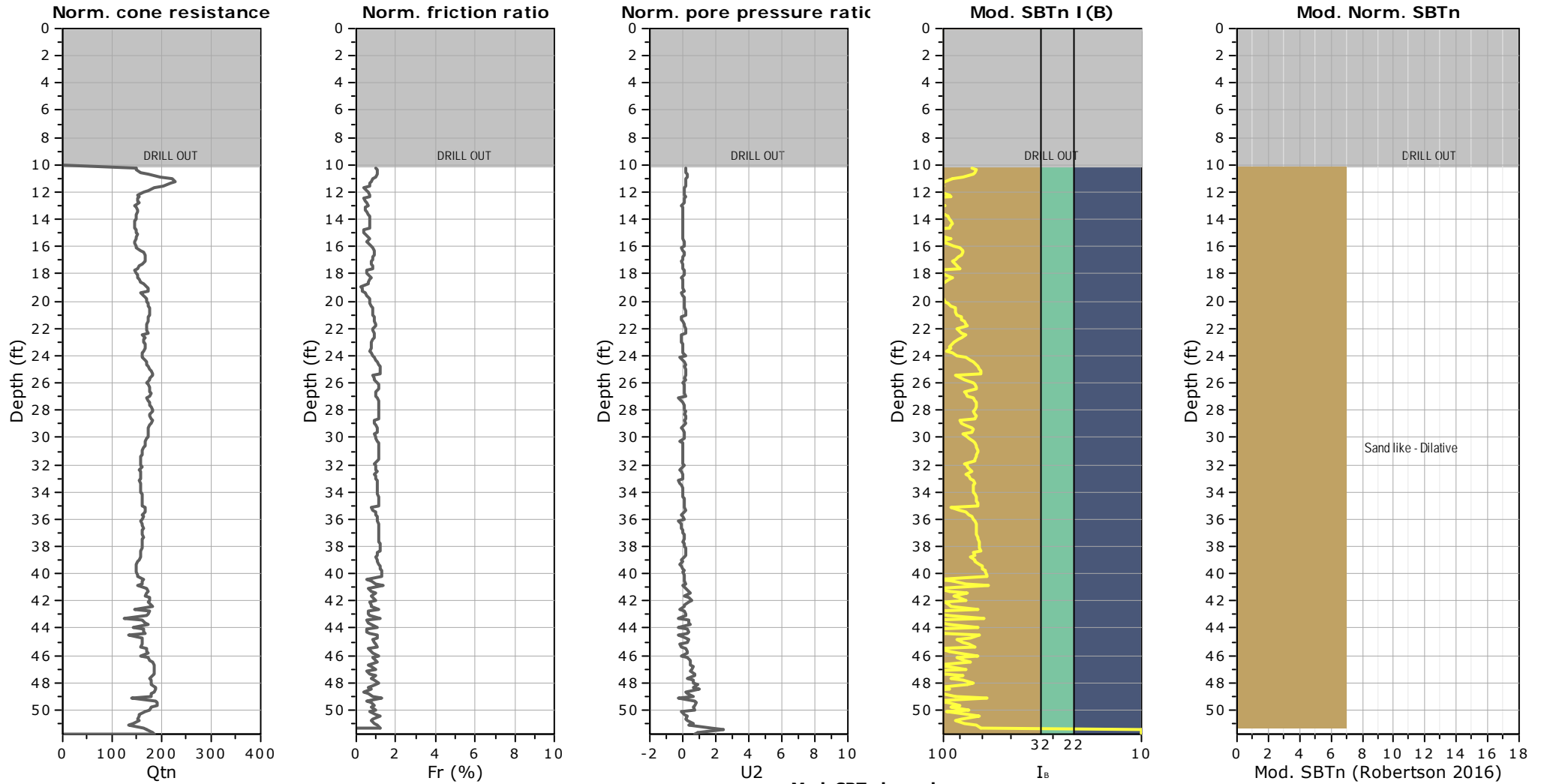
**Fuzzy classification legend**

- Highly probable clayey soil
- Highly probable mixture soil
- Highly probable sandy soil



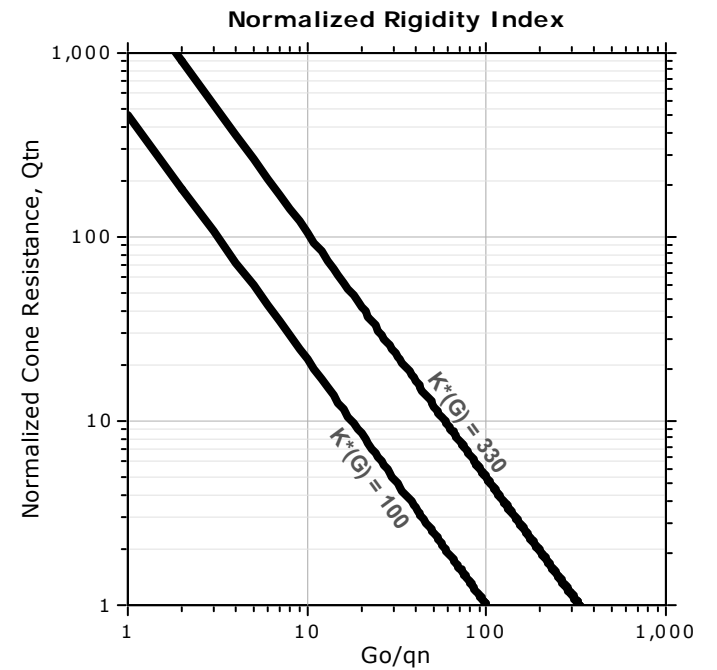
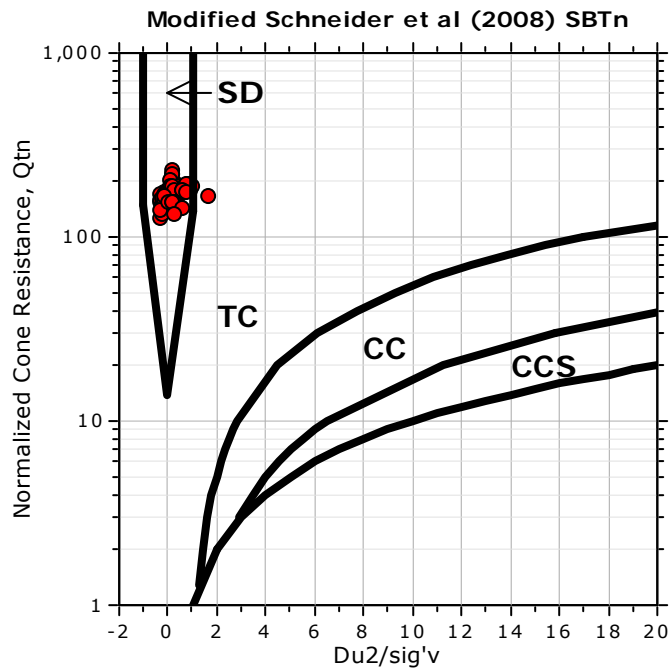
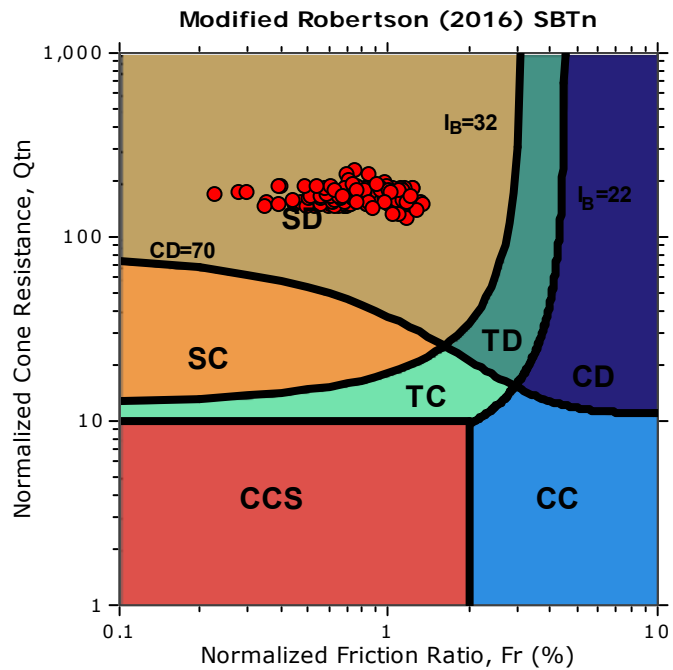






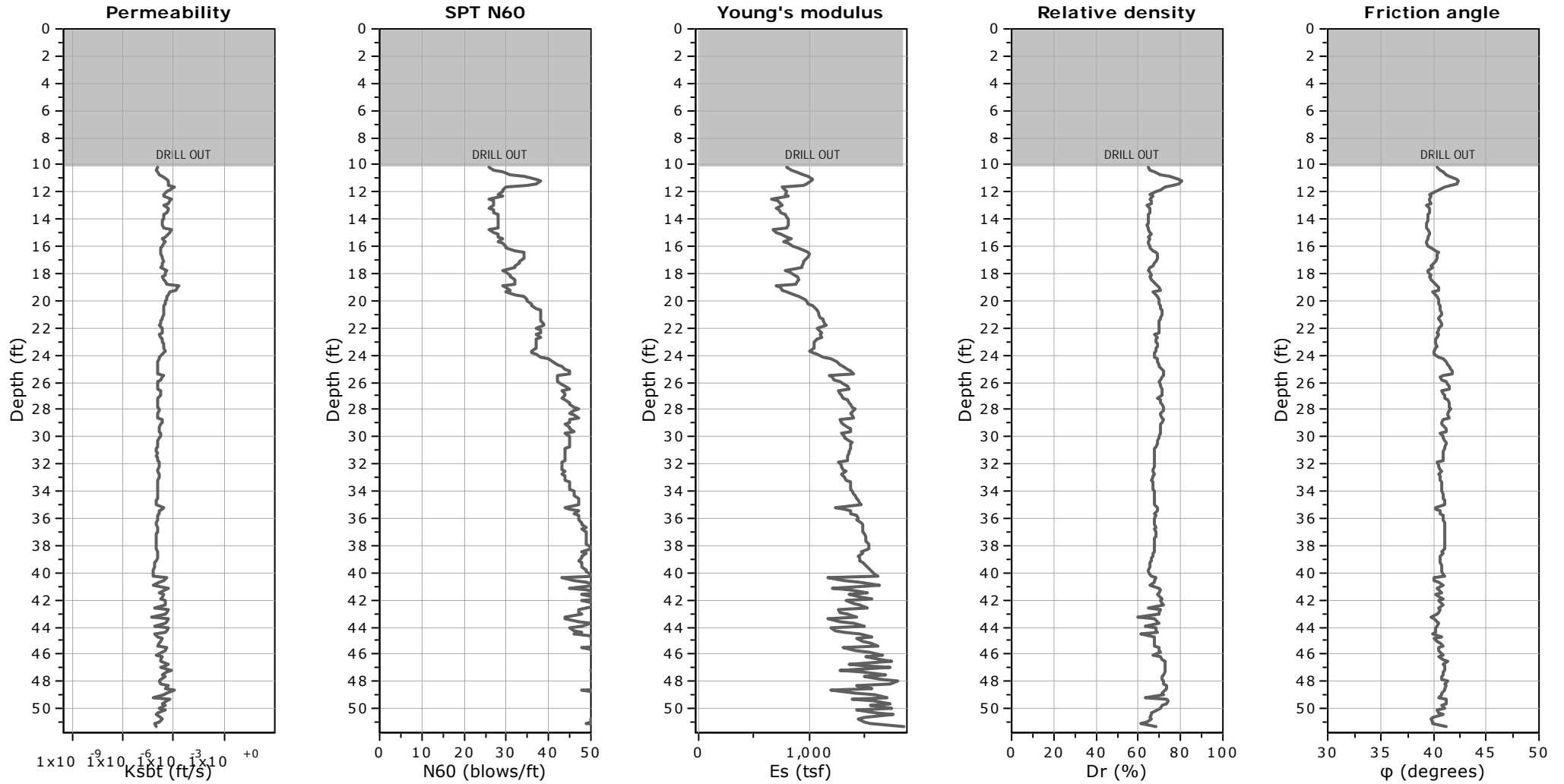


**Updated SBTn plots**



- CCS: Clay-like - Contractive - Sensitive
- CC: Clay-like - Contractive
- CD: Clay-like - Dilative
- TC: Transitional - Contractive
- TD: Transitional - Dilative
- SC: Sand-like - Contractive
- SD: Sand-like - Dilative

$K^*(G) > 330$ : Soils with significant microstructure (e.g. age/cementation)



**Calculation parameters**

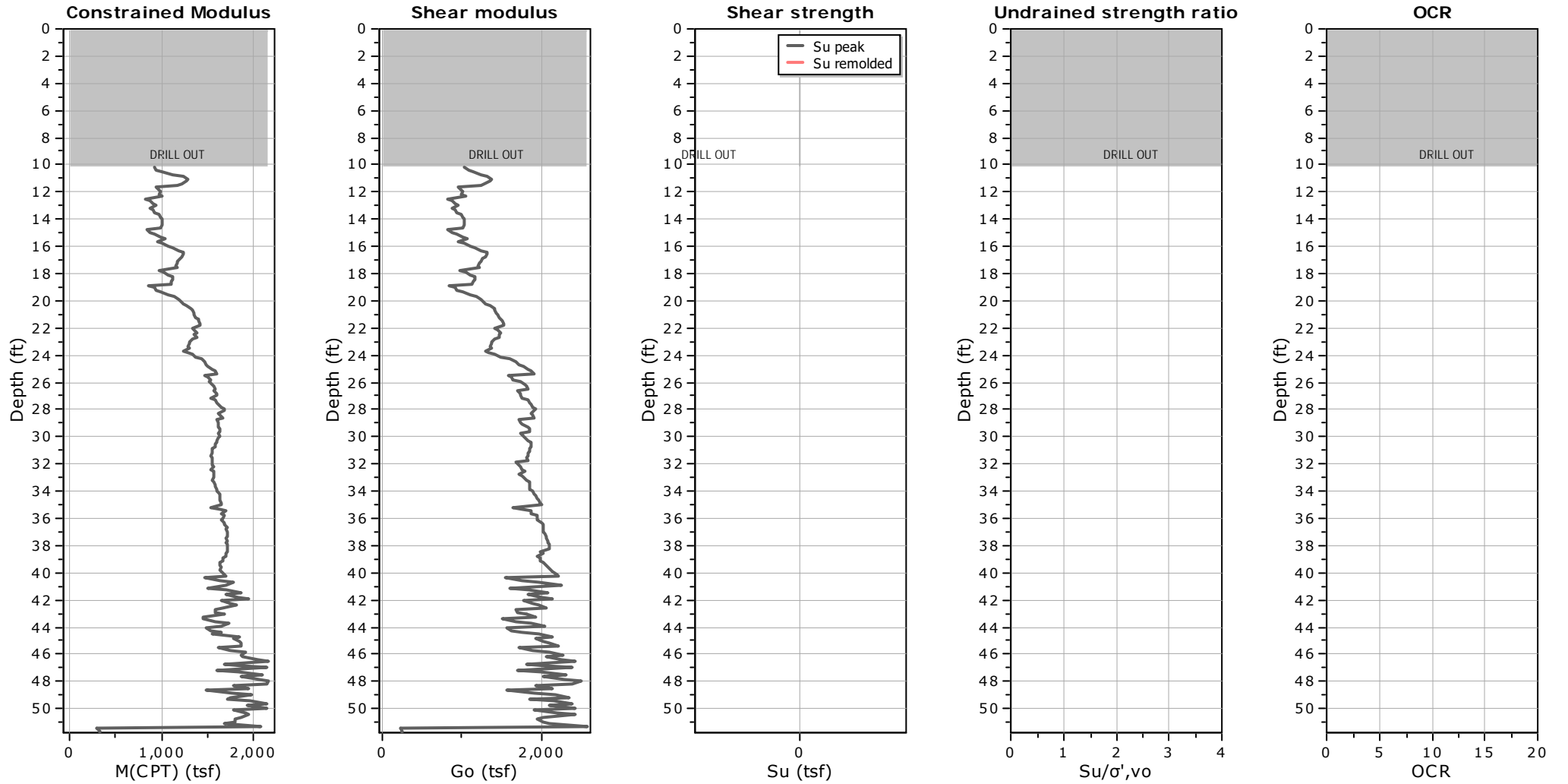
Permeability: Based on  $SBT_n$

SPT  $N_{60}$ : Based on  $I_c$  and  $q_t$

Young's modulus: Based on variable alpha using  $I_c$  (Robertson, 2009)

Relative density constant,  $C_{Dr}$ : 350.0

Phi: Based on Kulhawy & Mayne (1990)



**Calculation parameters**

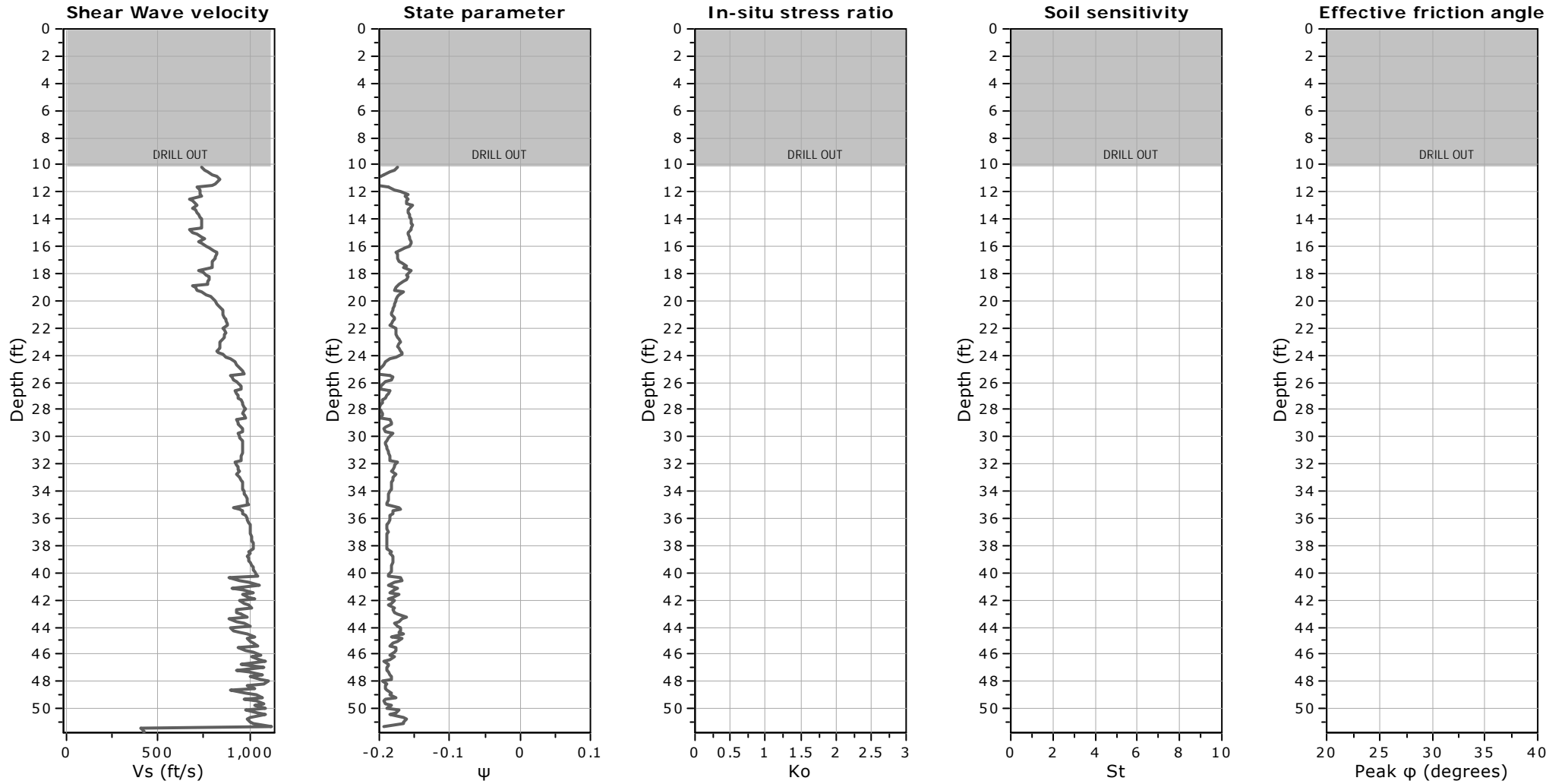
Constrained modulus: Based on variable  $\alpha$  using  $I_c$  and  $Q_{tn}$  (Robertson, 2009)

Go: Based on variable  $\alpha$  using  $I_c$  (Robertson, 2009)

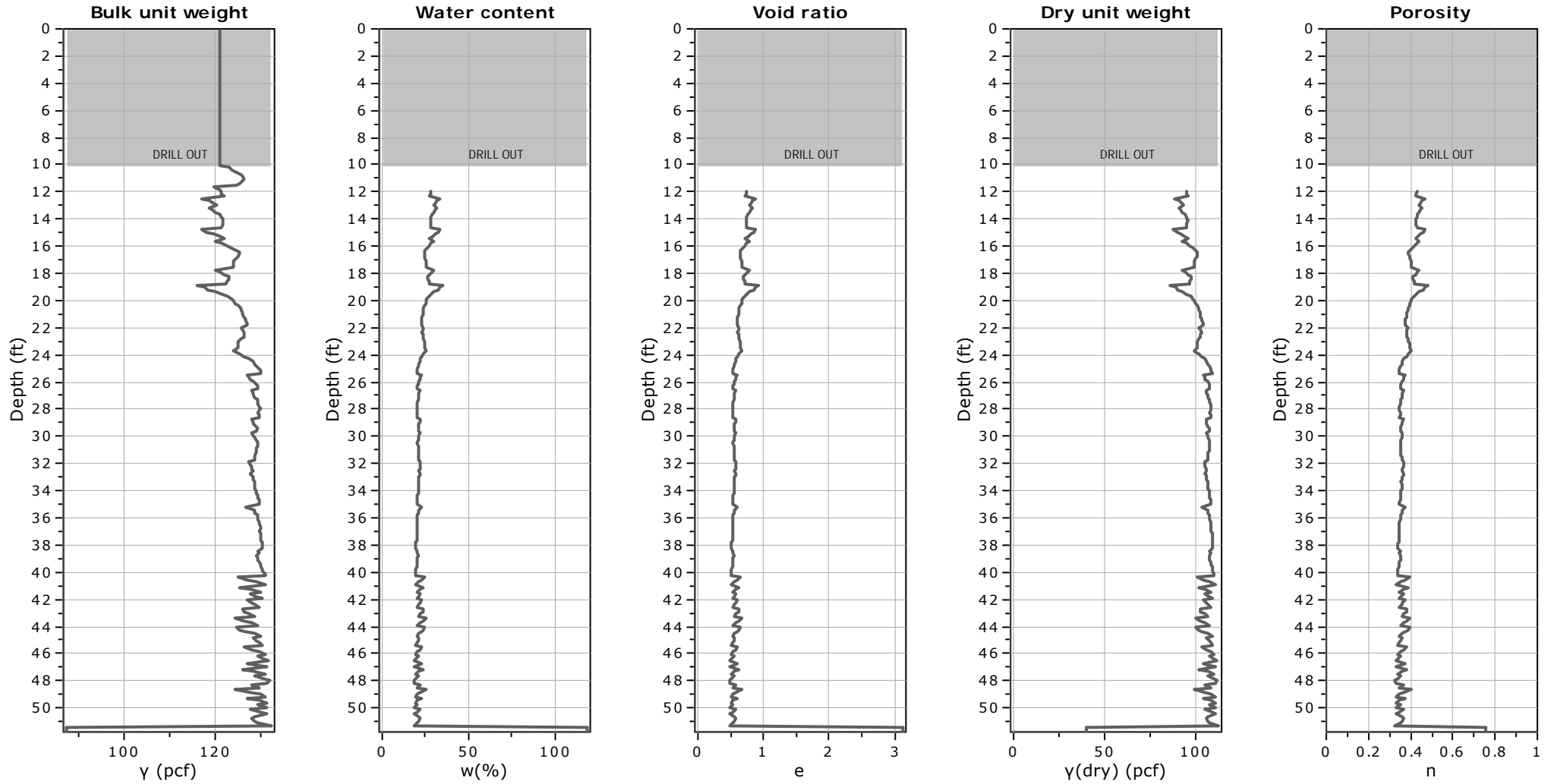
Undrained shear strength cone factor for clays,  $N_{kt}$ : 14

OCR factor for clays,  $N_{kt}$ : 0.33

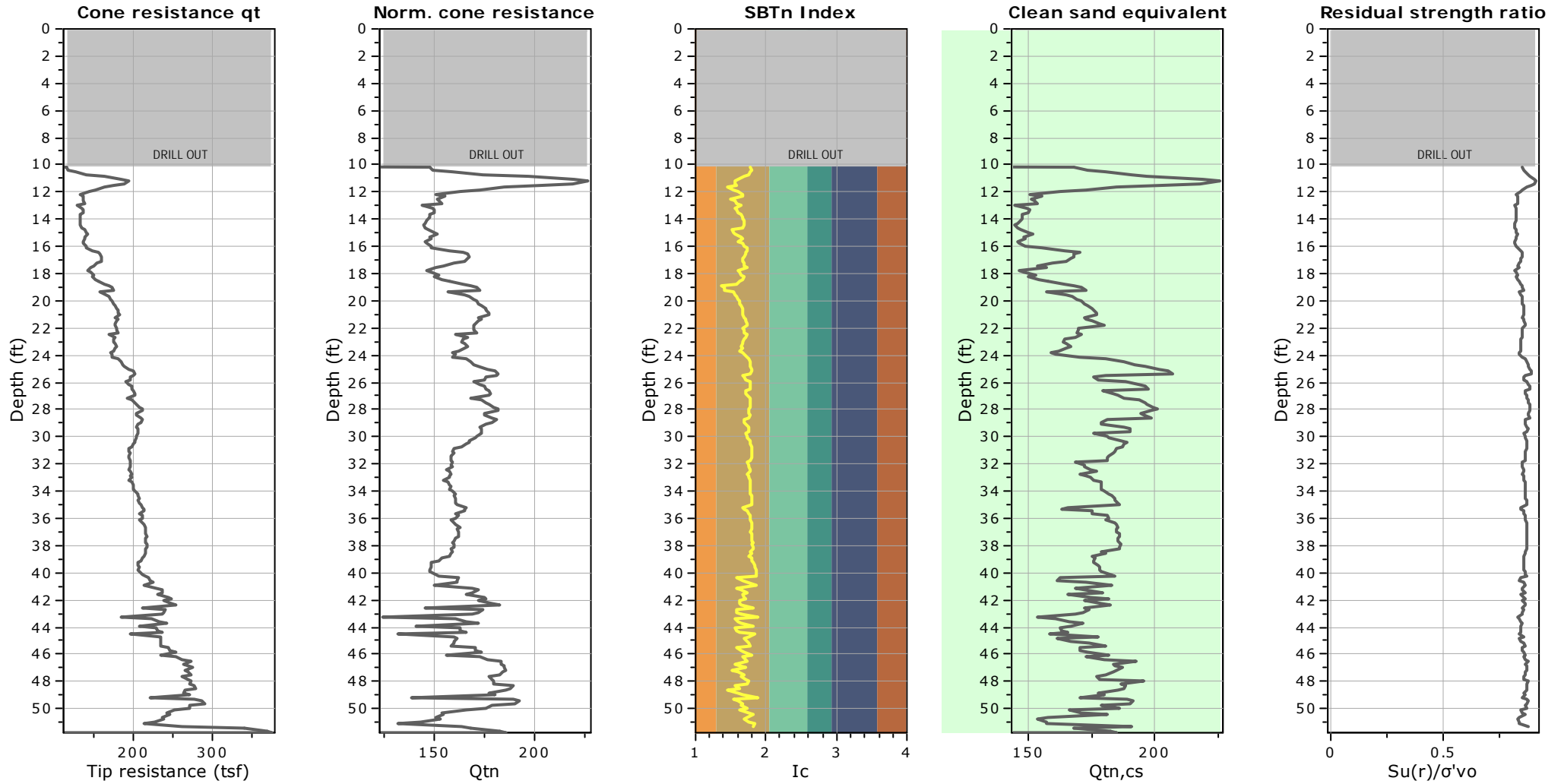
● Flat Dilatometer Test data



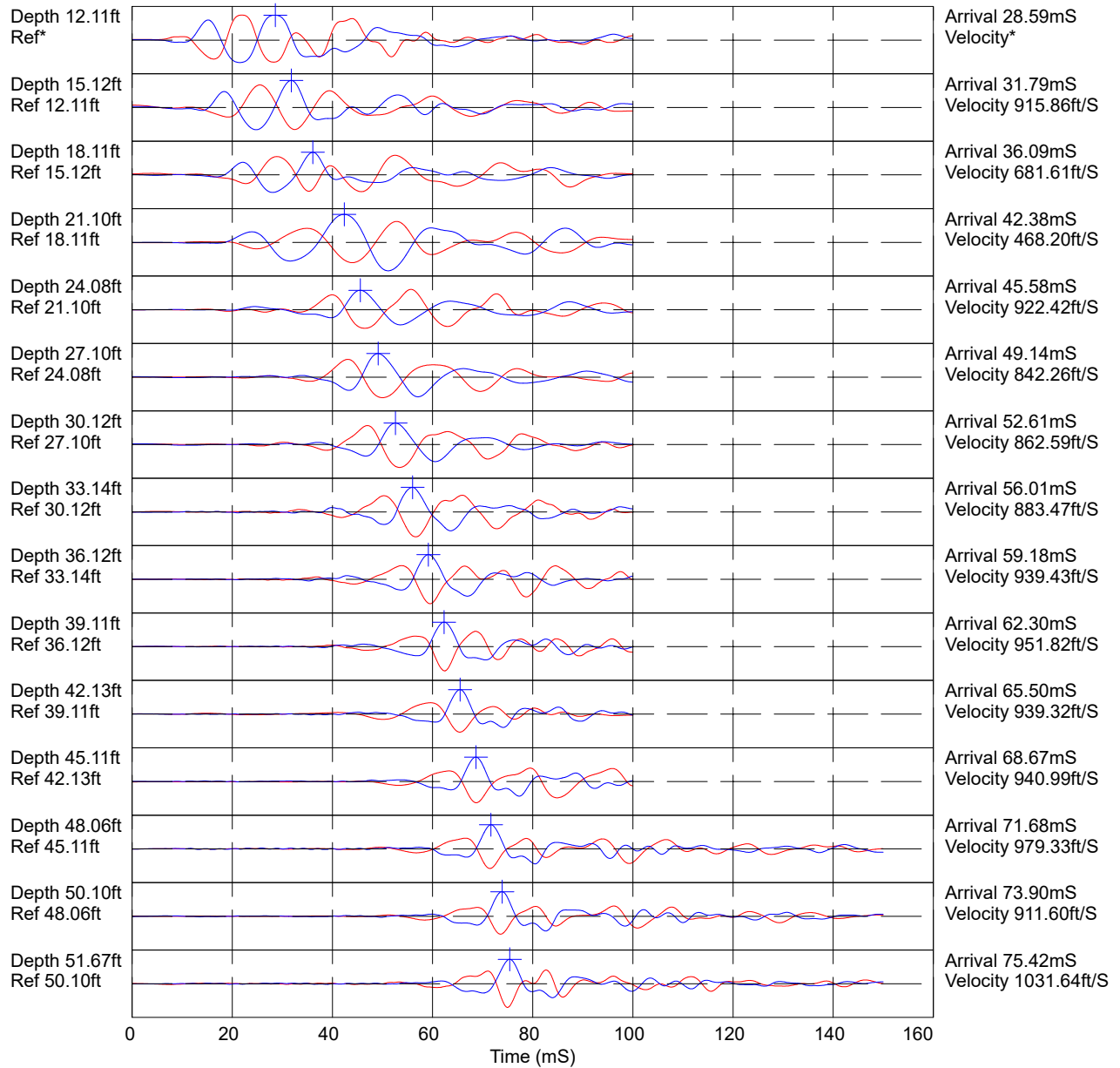
**Calculation parameters**  
Soil Sensitivity factor,  $N_s$ : 7.00







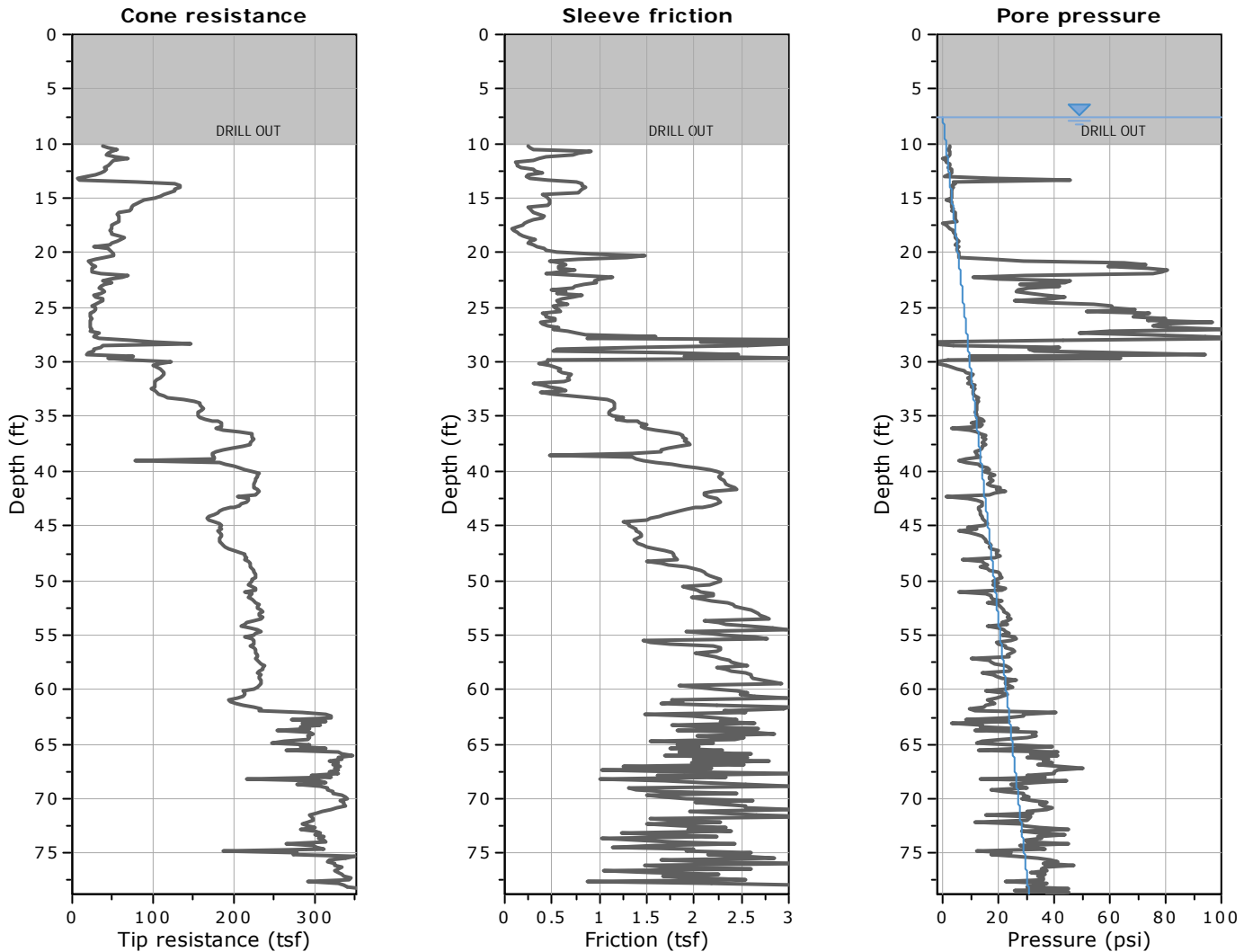
### SEISMIC TEST



Hammer to Rod String Distance (ft): 3.28

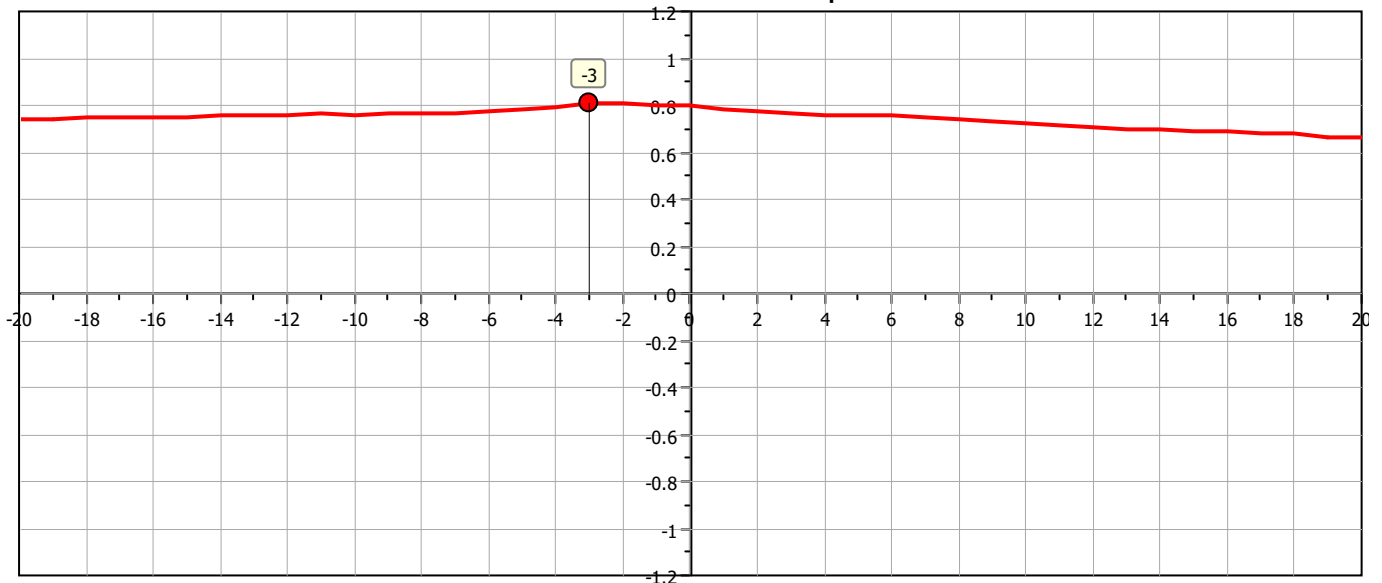
\* = Not Determined

COMMENT:



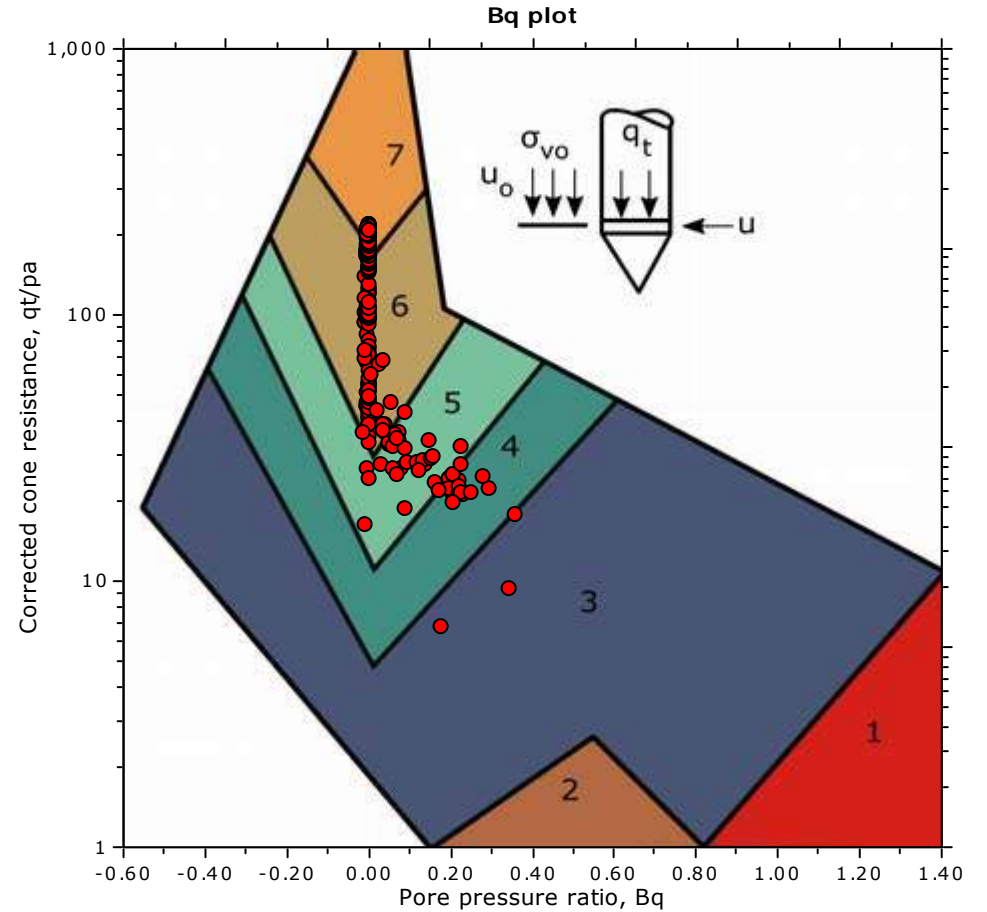
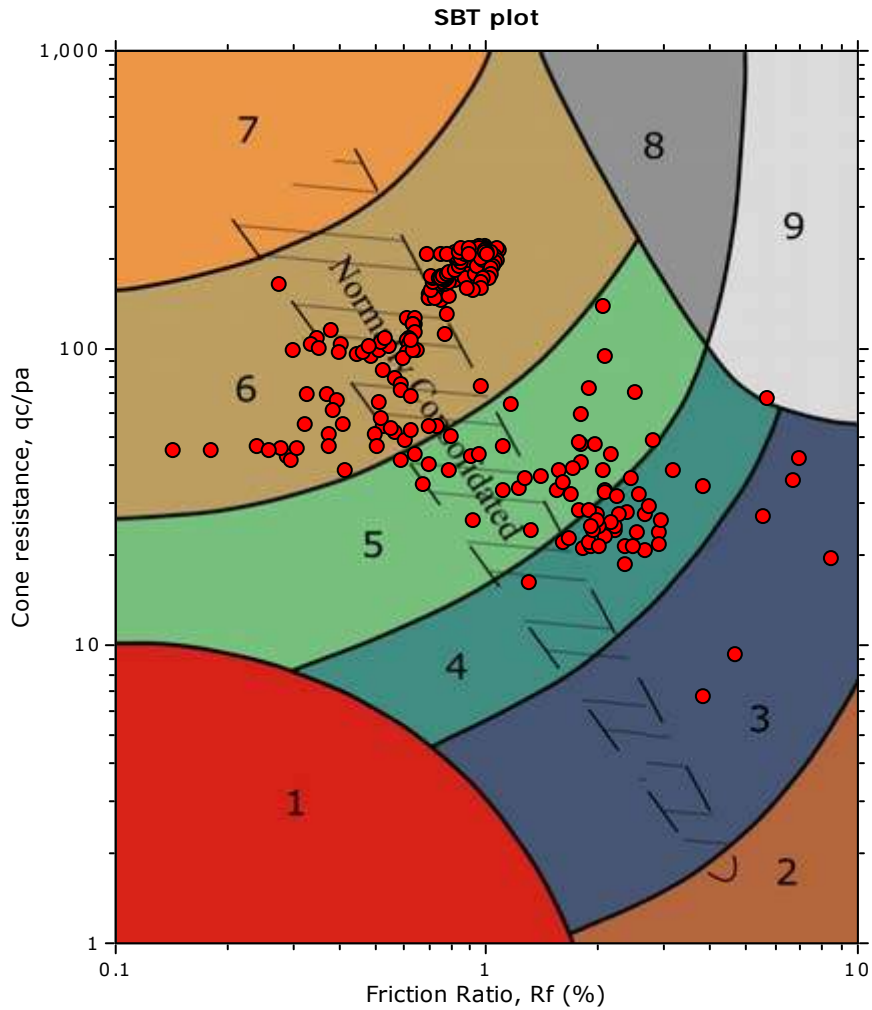
The plot below presents the cross correlation coefficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two successive CPT measurements).

Cross correlation between qc & fs





### SBT - Bq plots

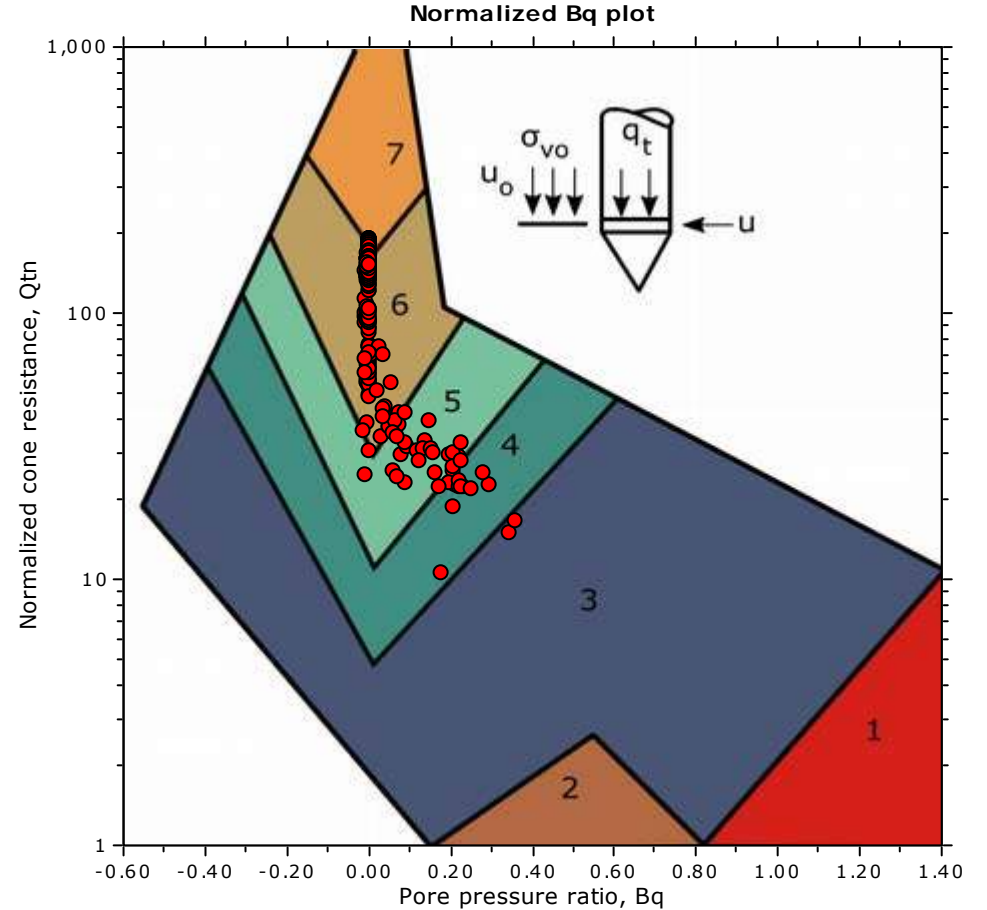
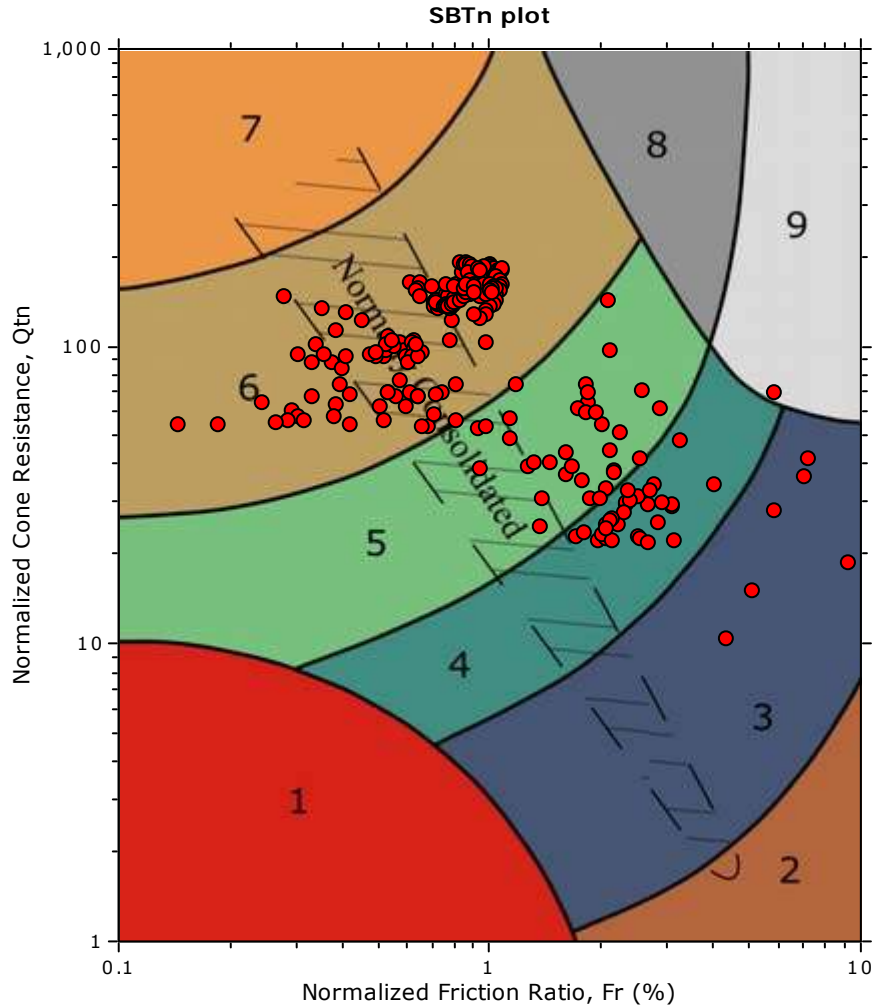


#### SBT legend

- |                           |                              |                                   |
|---------------------------|------------------------------|-----------------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty clay | 7. Gravelly sand to sand          |
| 2. Organic material       | 5. Silty sand to sandy silt  | 8. Very stiff sand to clayey sand |
| 3. Clay to silty clay     | 6. Clean sand to silty sand  | 9. Very stiff fine grained        |



**SBT - Bq plots (normalized)**

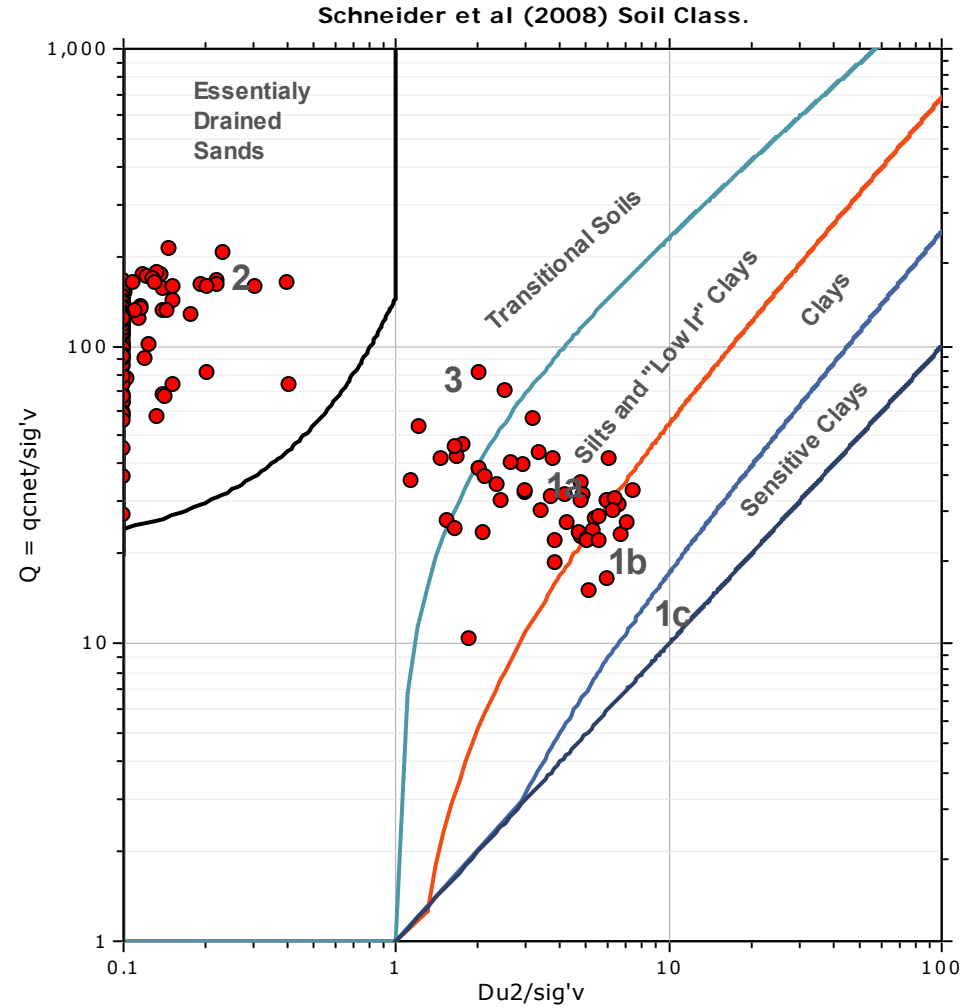
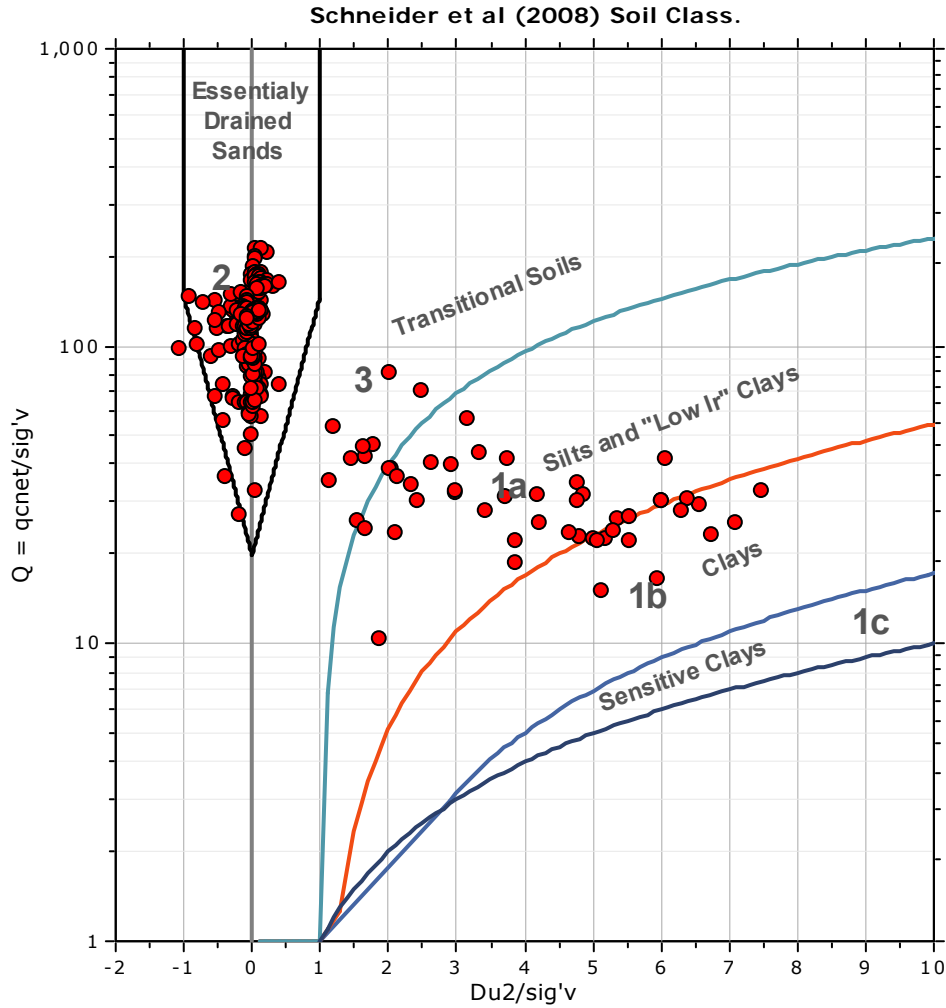


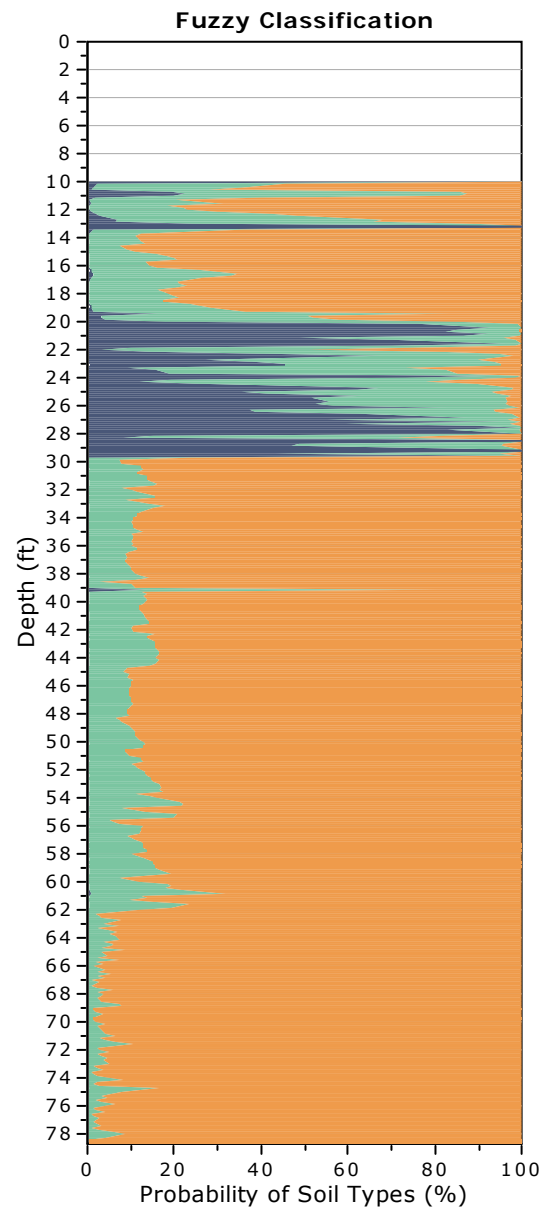
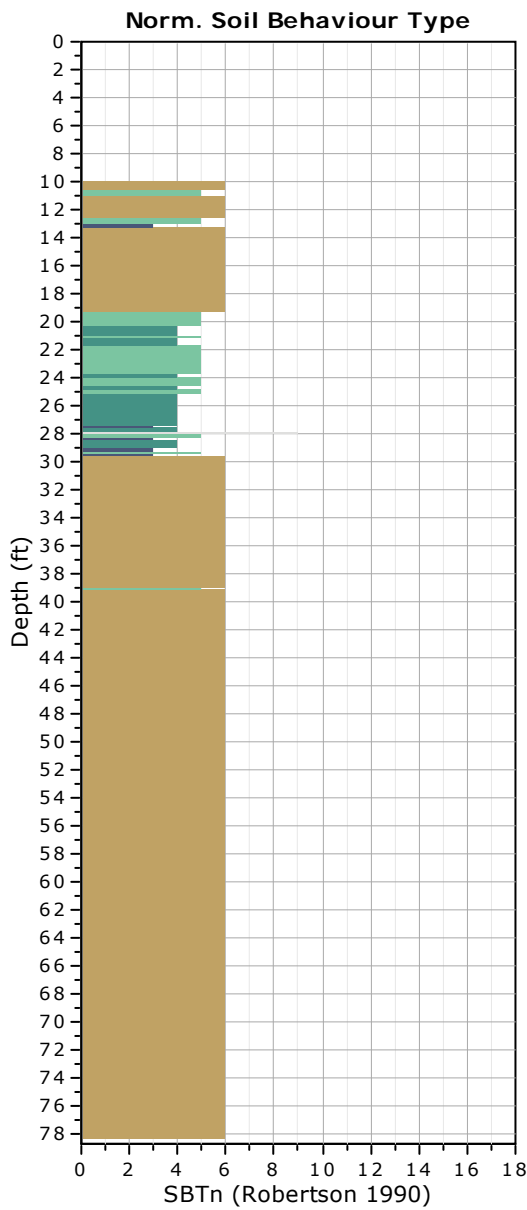
**SBTn legend**

- |                                                              |                                                                       |                                                                       |
|--------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| <span style="color: red;">■</span> 1. Sensitive fine grained | <span style="color: teal;">■</span> 4. Clayey silt to silty clay      | <span style="color: orange;">■</span> 7. Gravelly sand to sand        |
| <span style="color: brown;">■</span> 2. Organic material     | <span style="color: lightgreen;">■</span> 5. Silty sand to sandy silt | <span style="color: grey;">■</span> 8. Very stiff sand to clayey sand |
| <span style="color: blue;">■</span> 3. Clay to silty clay    | <span style="color: tan;">■</span> 6. Clean sand to silty sand        | <span style="color: lightgrey;">■</span> 9. Very stiff fine grained   |



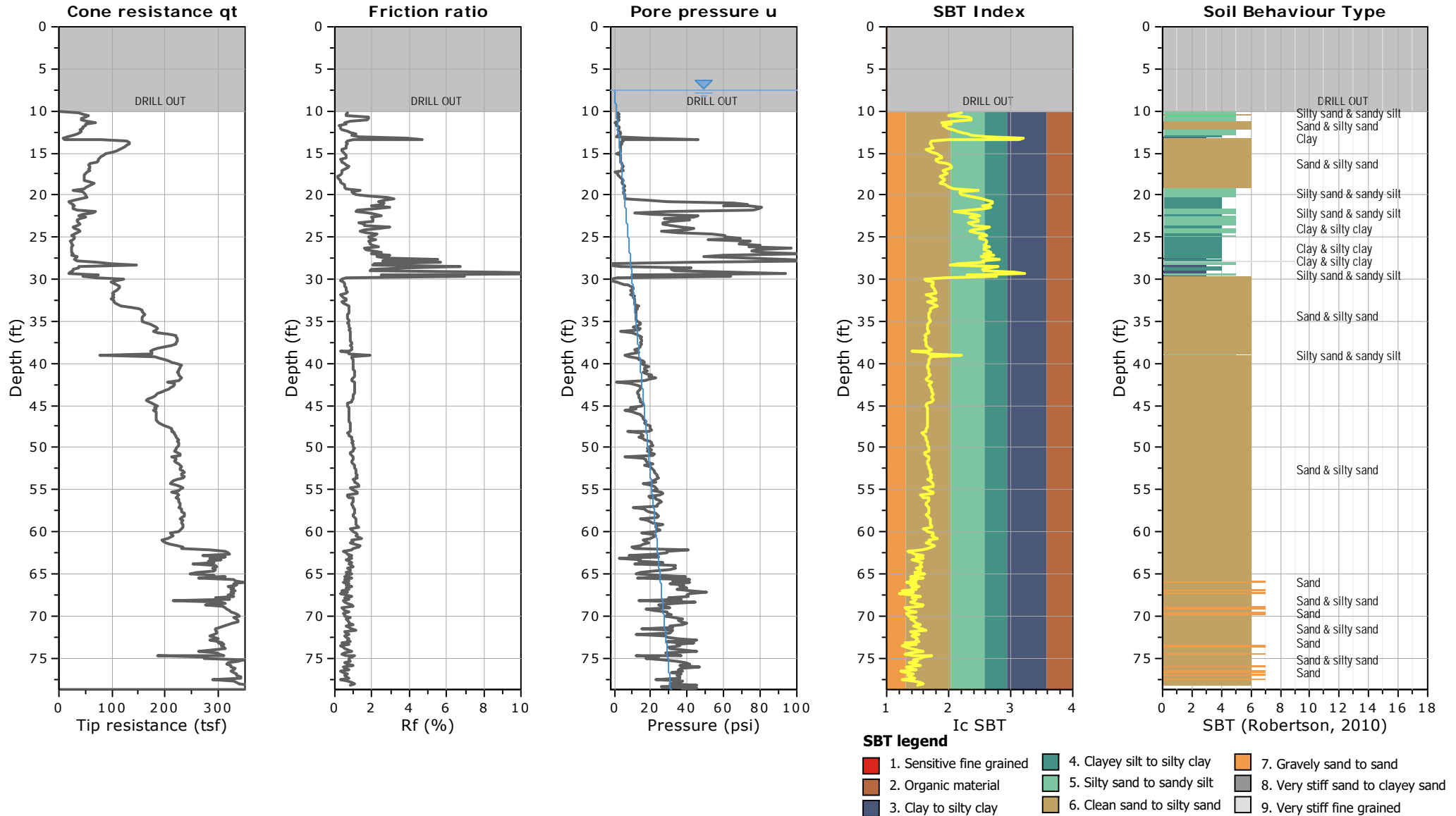
### Bq plots (Schneider)



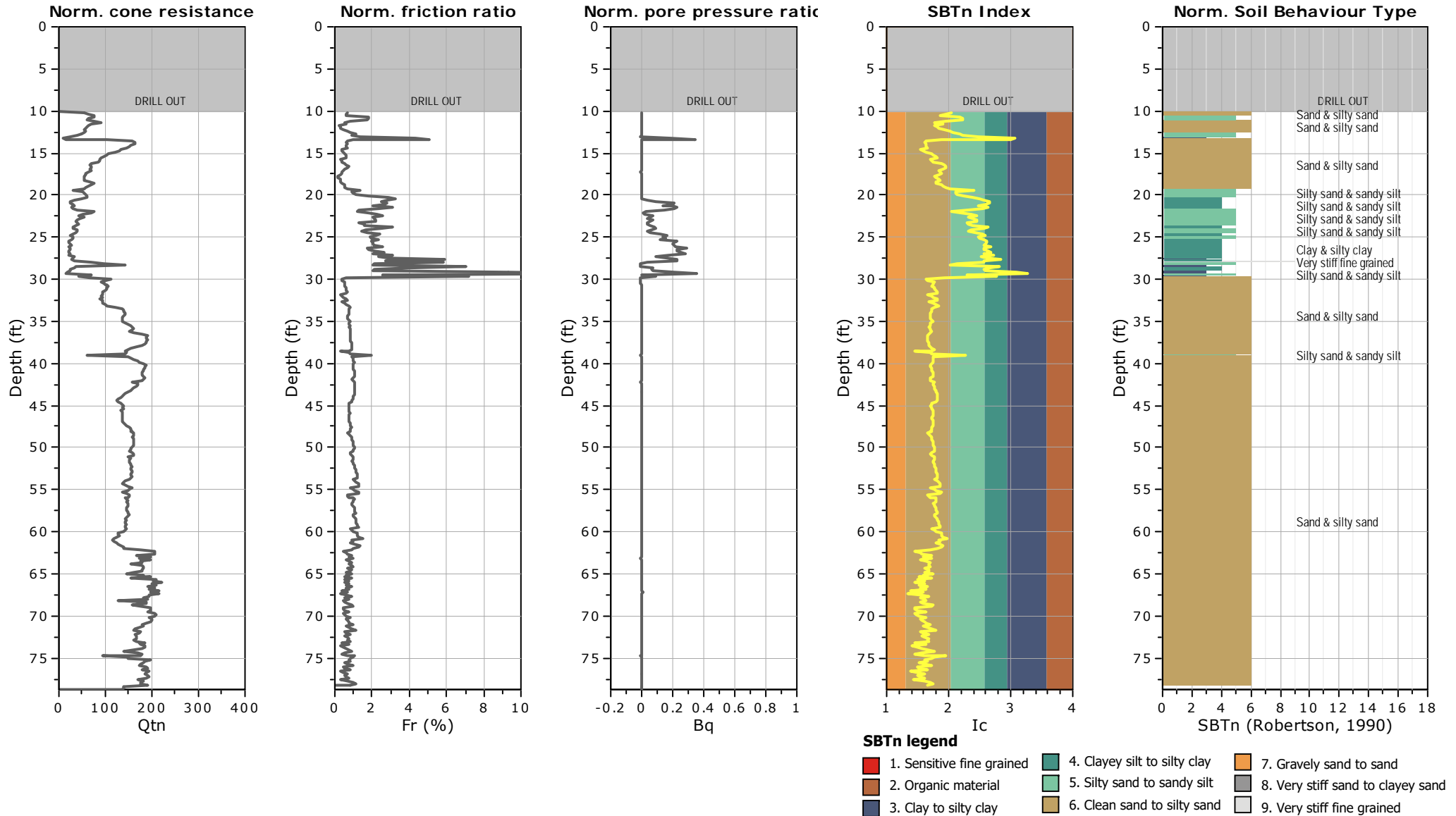


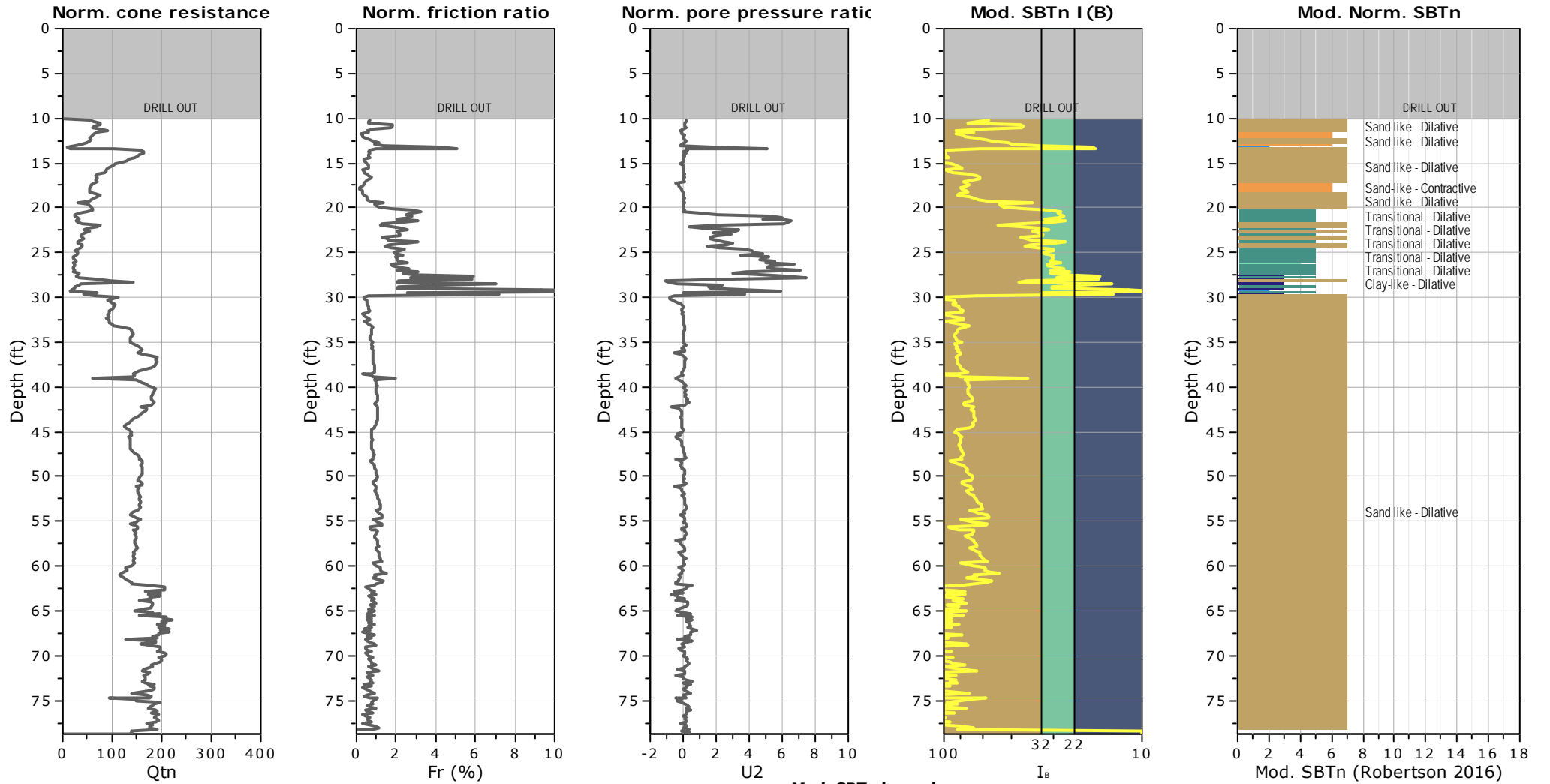
**Fuzzy classification legend**

- Highly probable clayey soil
- Highly probable mixture soil
- Highly probable sandy soil



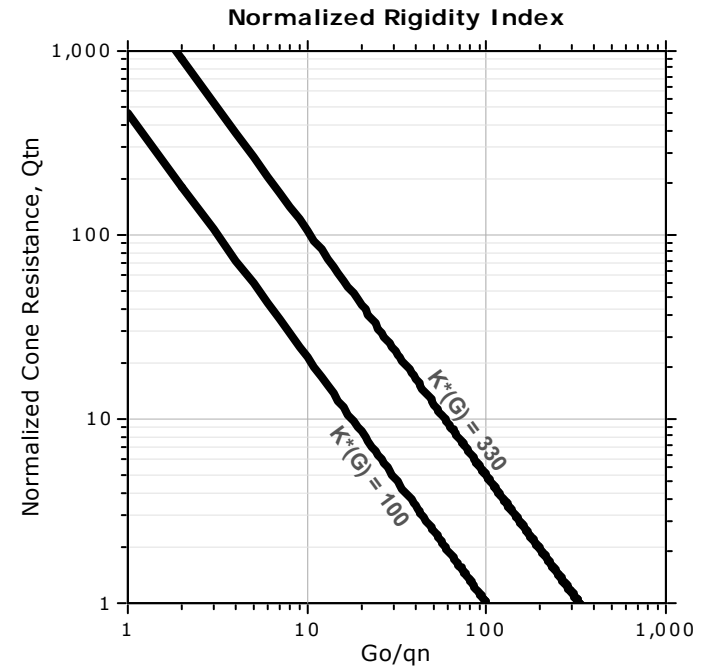
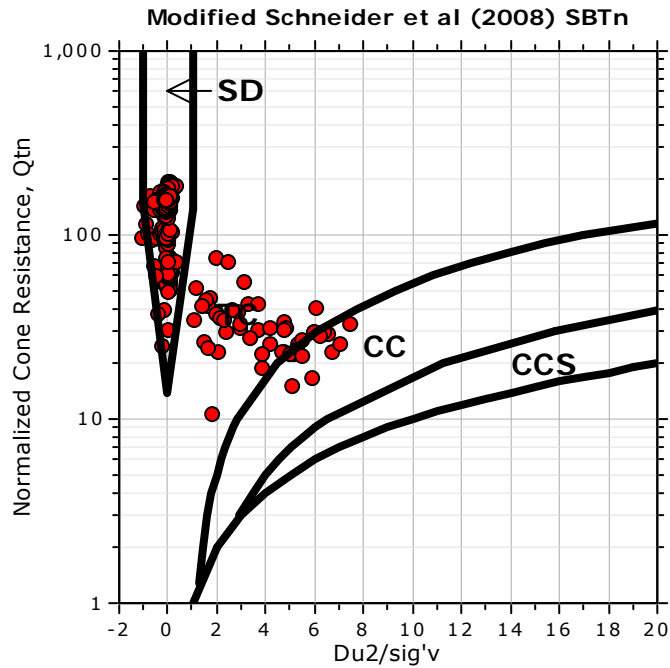
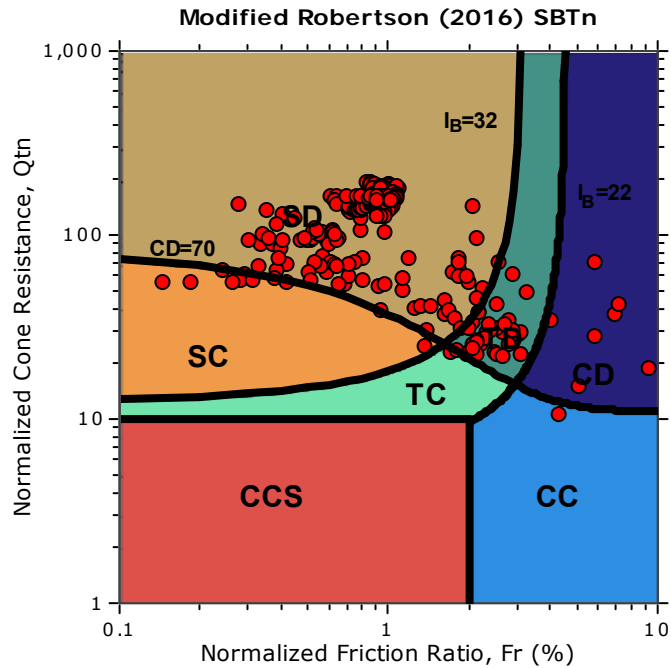






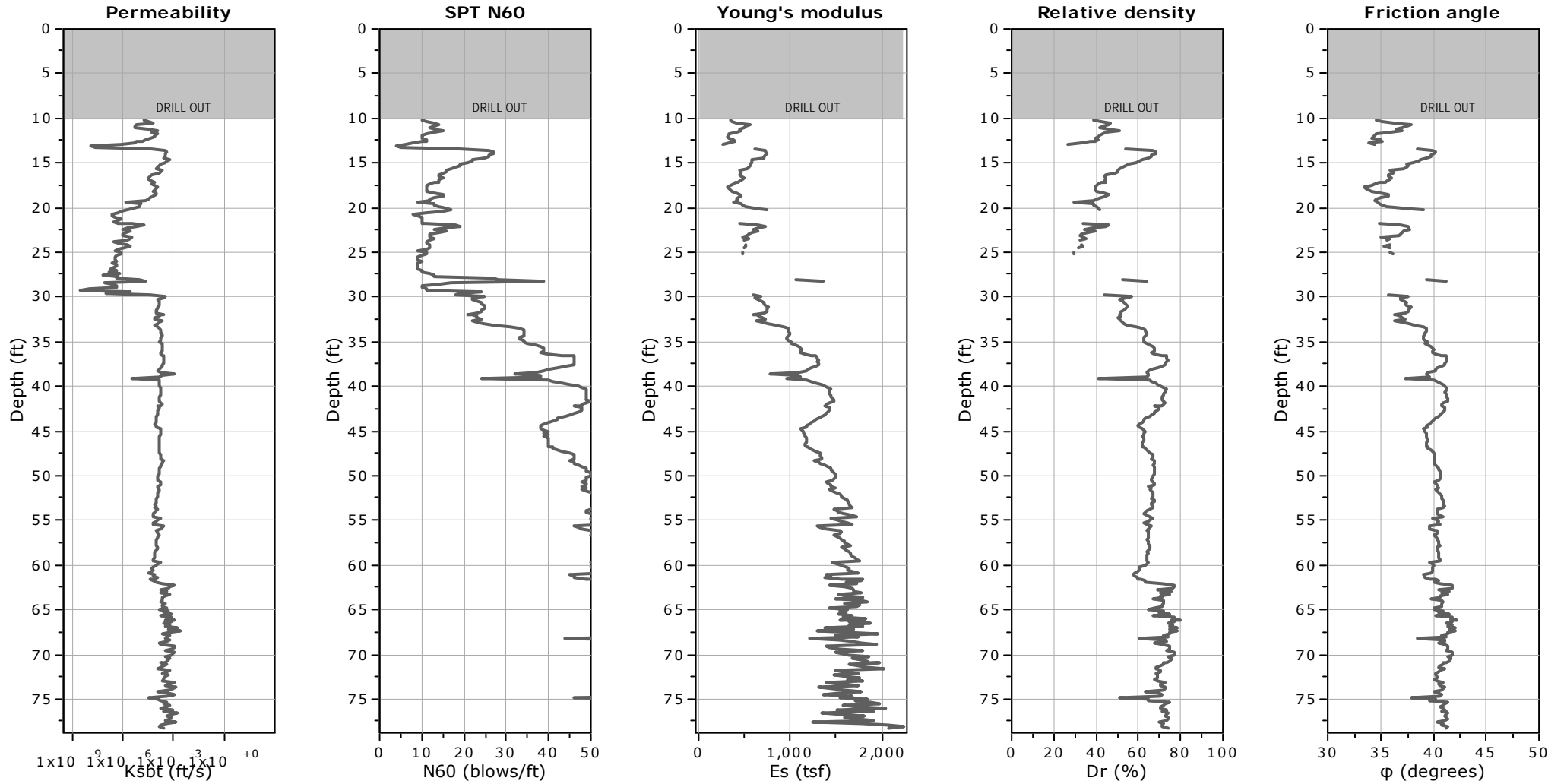


**Updated SBTn plots**



- CCS: Clay-like - Contractive - Sensitive
- CC: Clay-like - Contractive
- CD: Clay-like - Dilative
- TC: Transitional - Contractive
- TD: Transitional - Dilative
- SC: Sand-like - Contractive
- SD: Sand-like - Dilative

$K^*(G) > 330$ : Soils with significant microstructure (e.g. age/cementation)



**Calculation parameters**

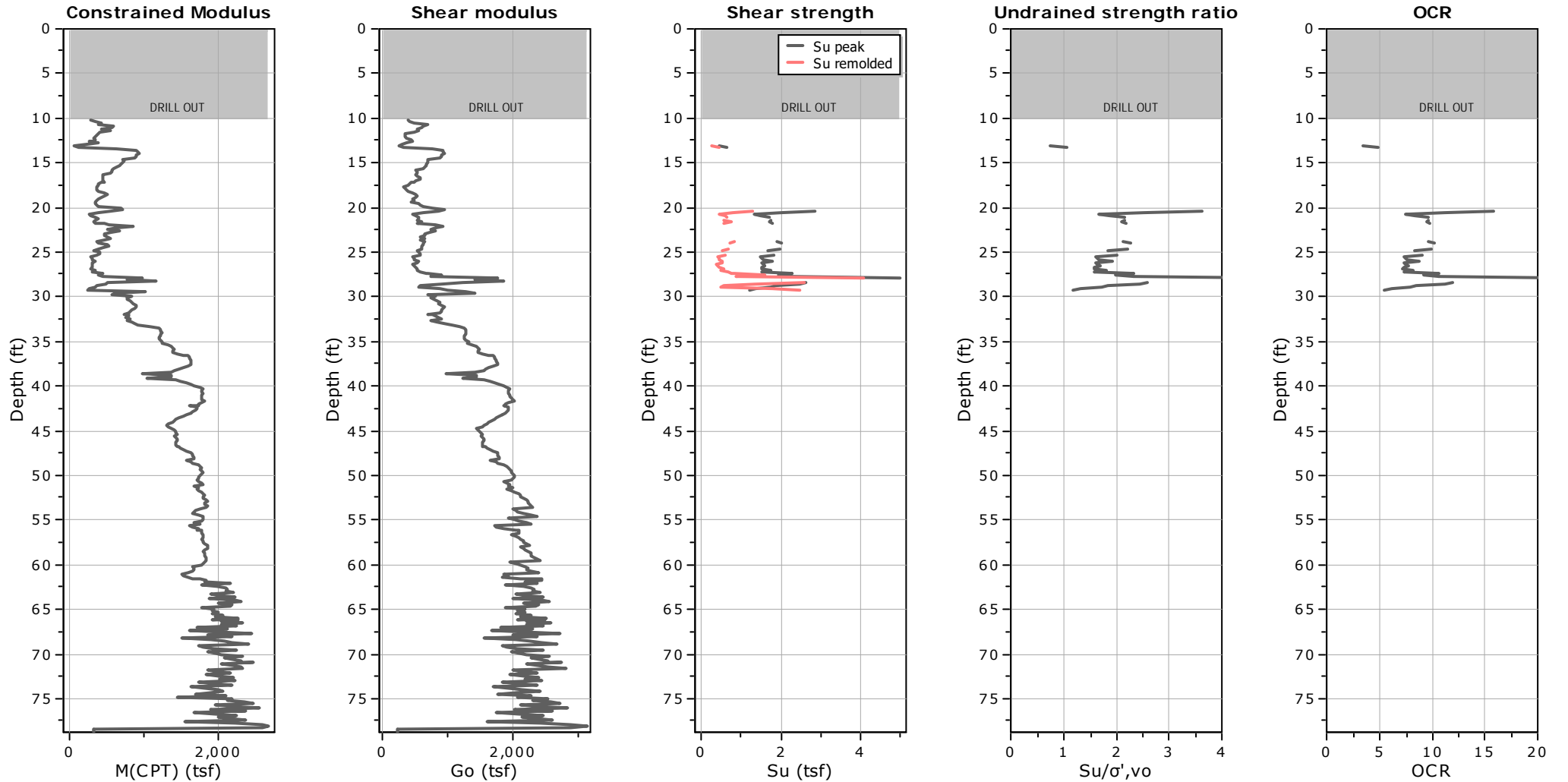
Permeability: Based on  $SBT_n$

SPT  $N_{60}$ : Based on  $I_c$  and  $q_t$

Young's modulus: Based on variable alpha using  $I_c$  (Robertson, 2009)

Relative density constant,  $C_{Dr}$ : 350.0

Phi: Based on Kulhawy & Mayne (1990)



**Calculation parameters**

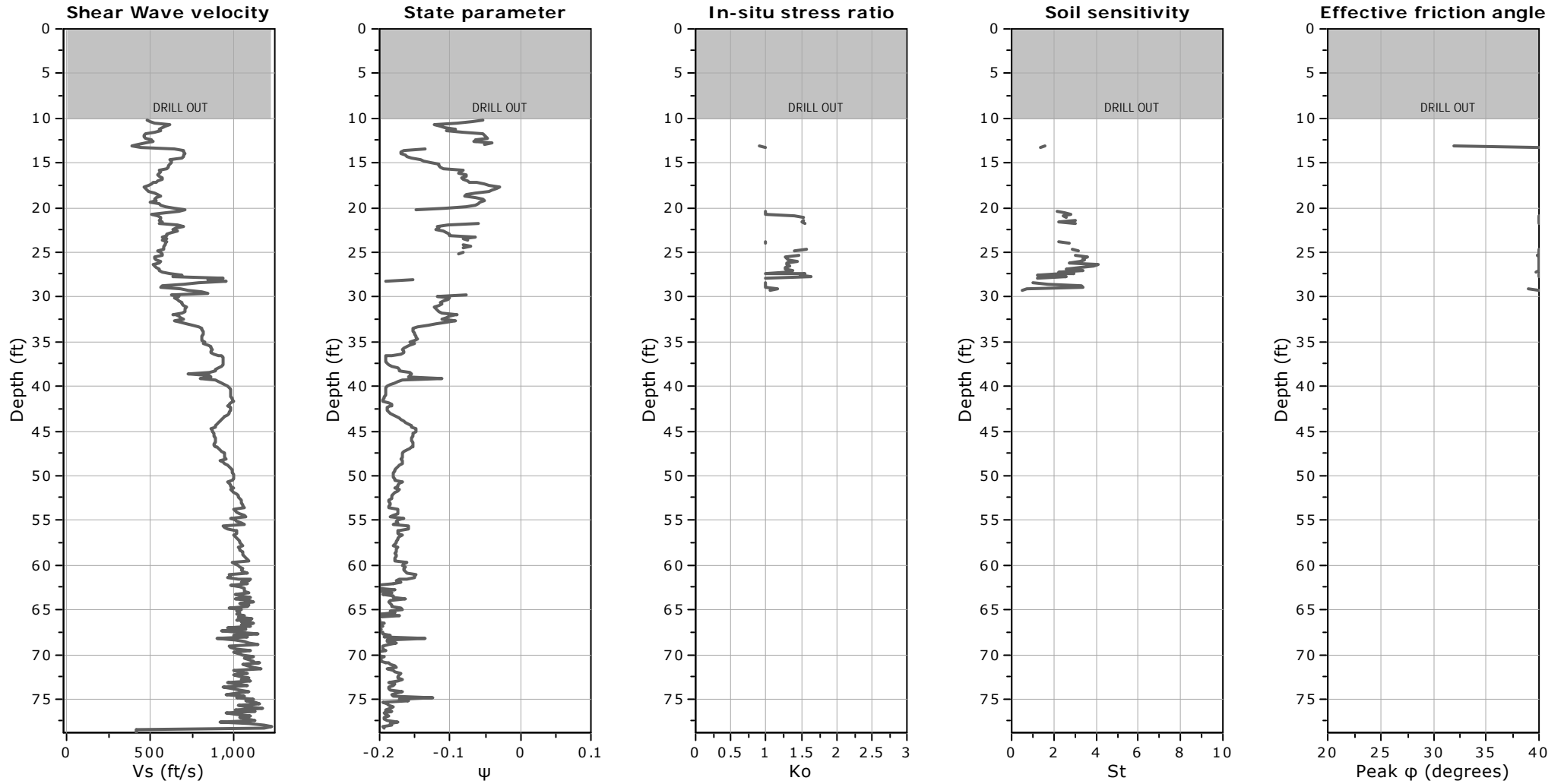
Constrained modulus: Based on variable  $\alpha$  using  $I_c$  and  $Q_{tn}$  (Robertson, 2009)

Go: Based on variable  $\alpha$  using  $I_c$  (Robertson, 2009)

Undrained shear strength cone factor for clays,  $N_{kt}$ : 14

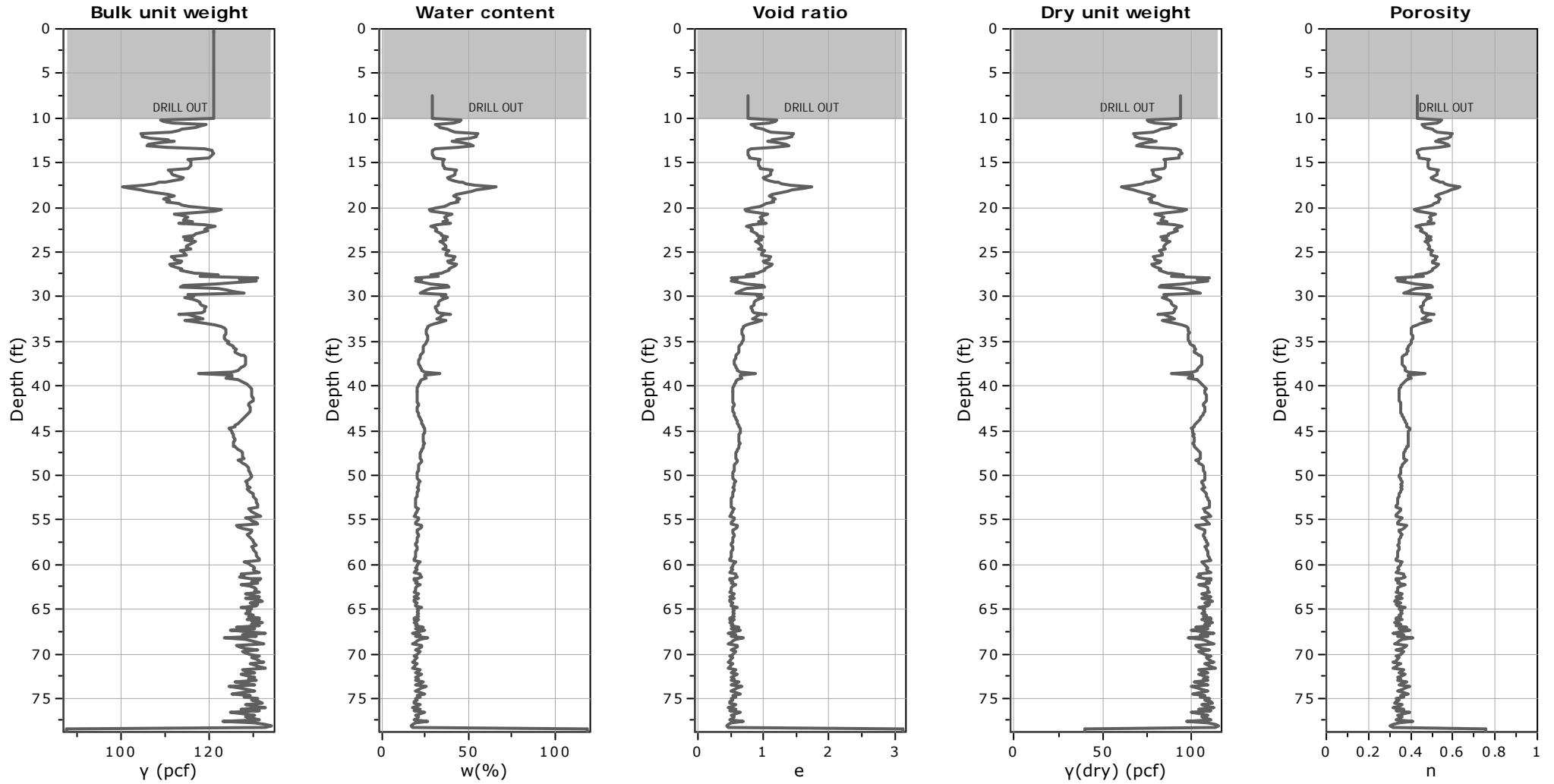
OCR factor for clays,  $N_{kt}$ : 0.33

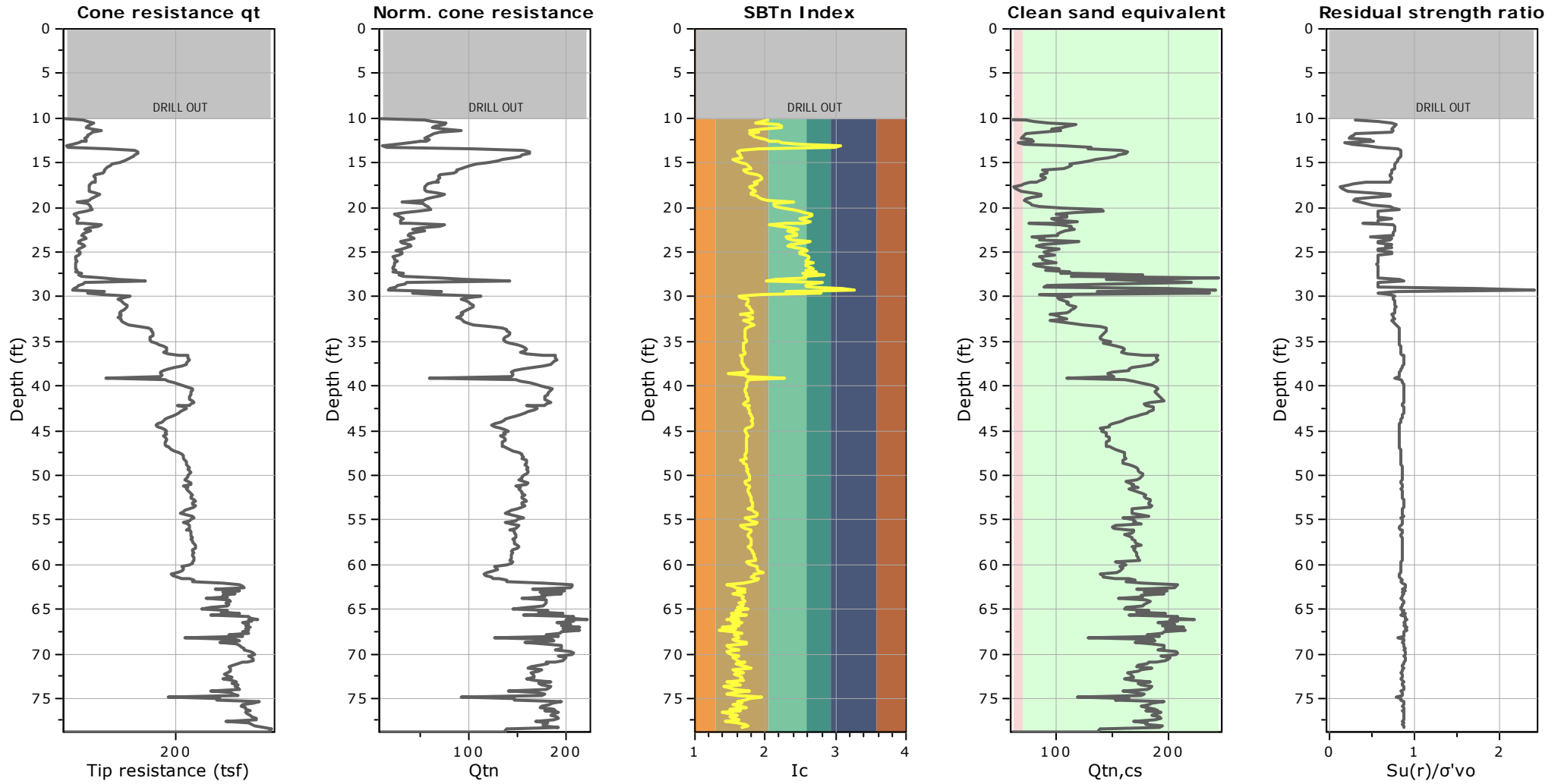
● Flat Dilatometer Test data



**Calculation parameters**

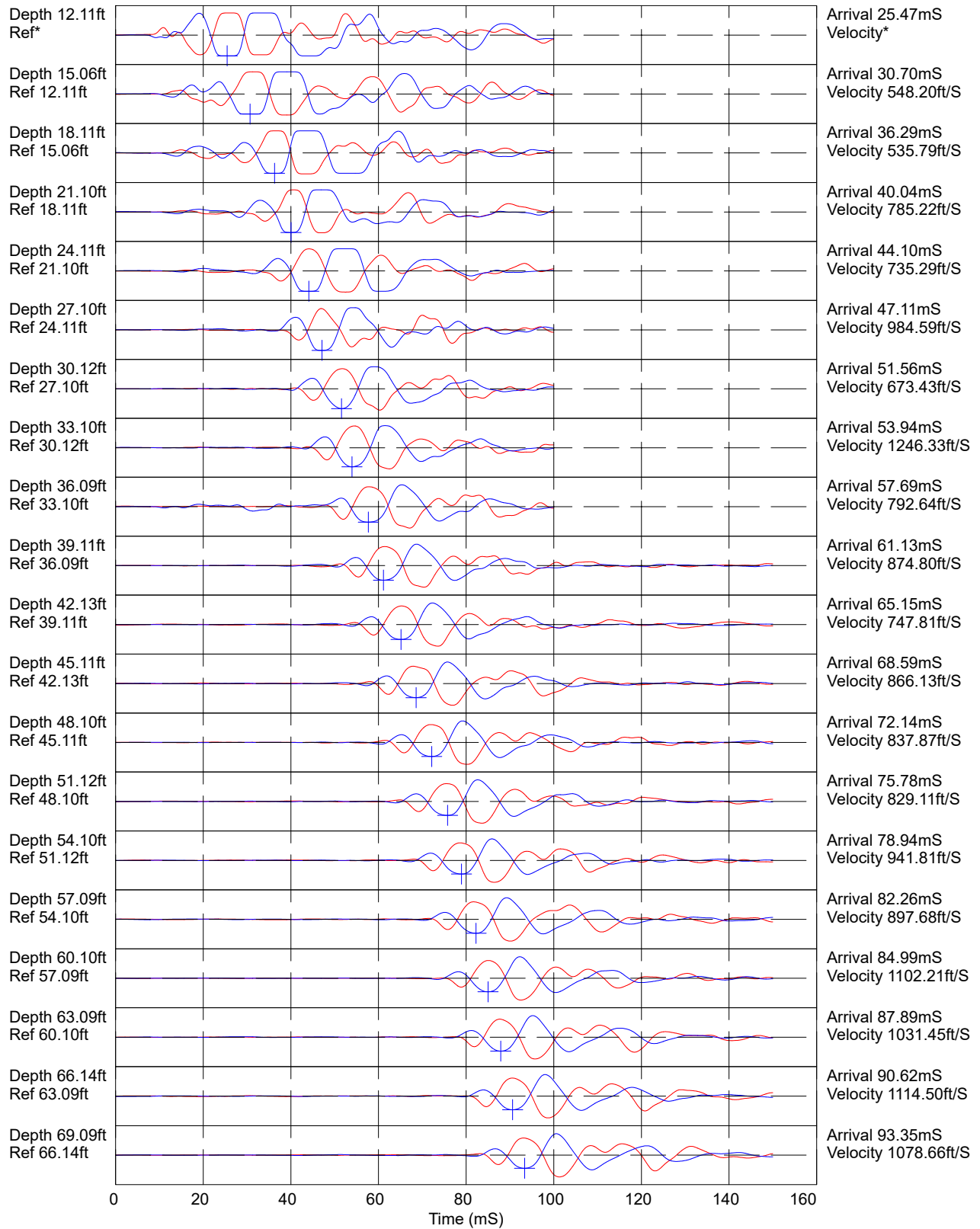
Soil Sensitivity factor,  $N_s$ : 7.00







### SEISMIC TEST

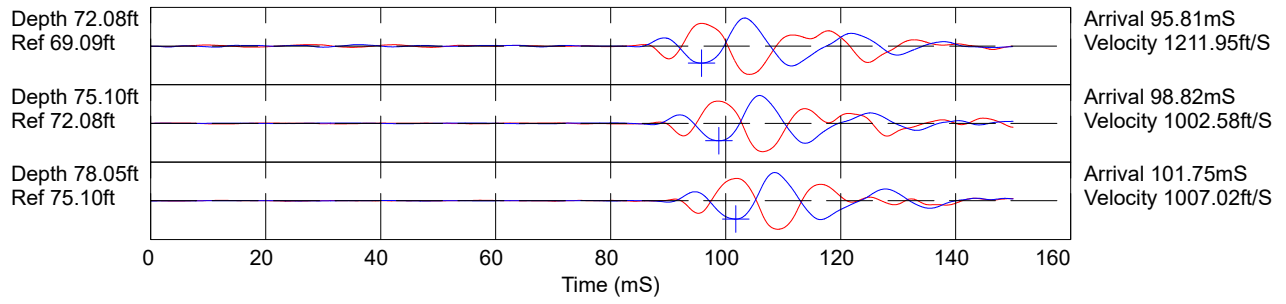


Hammer to Rod String Distance (ft): 3.28

\* = Not Determined

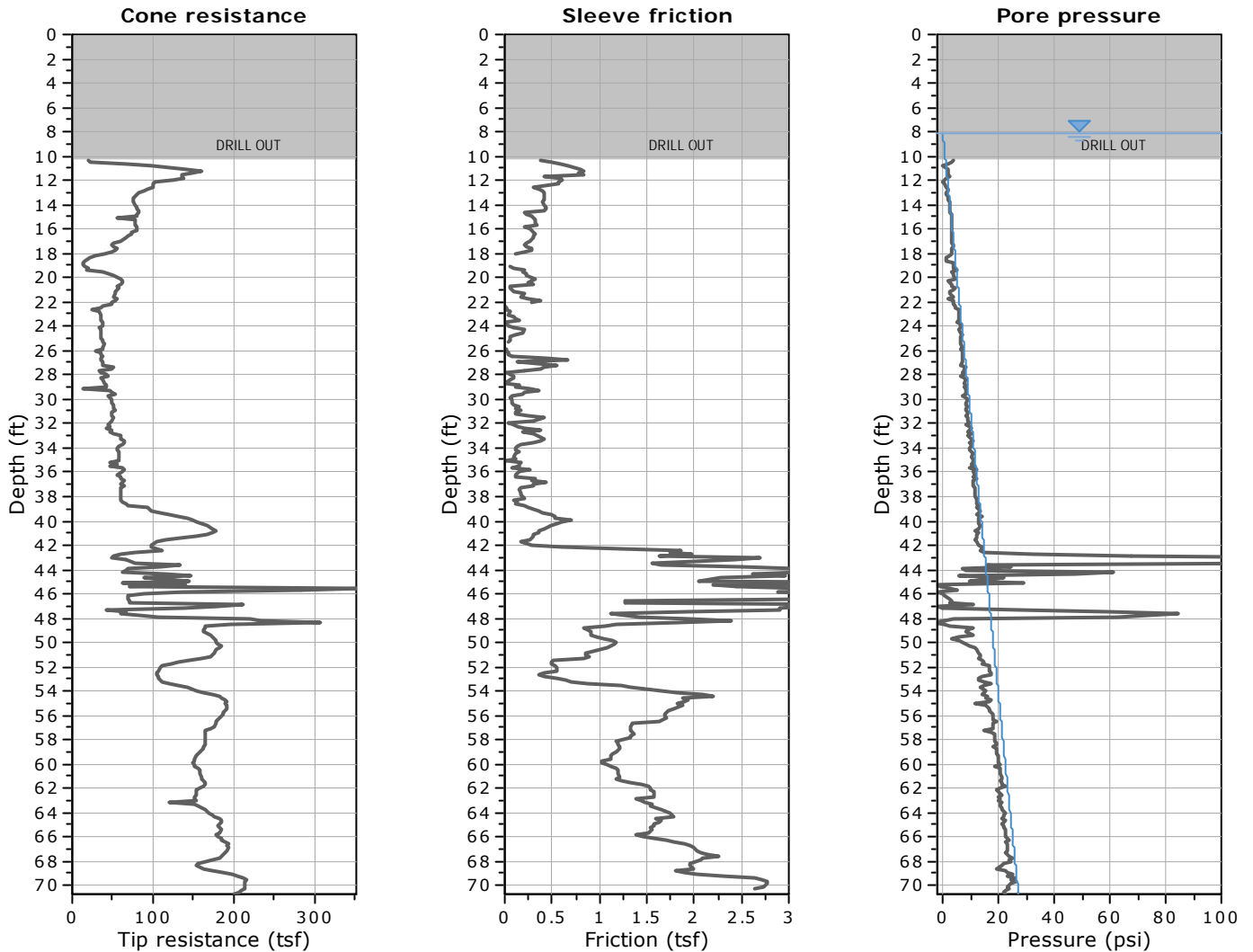
COMMENT:

### SEISMIC TEST



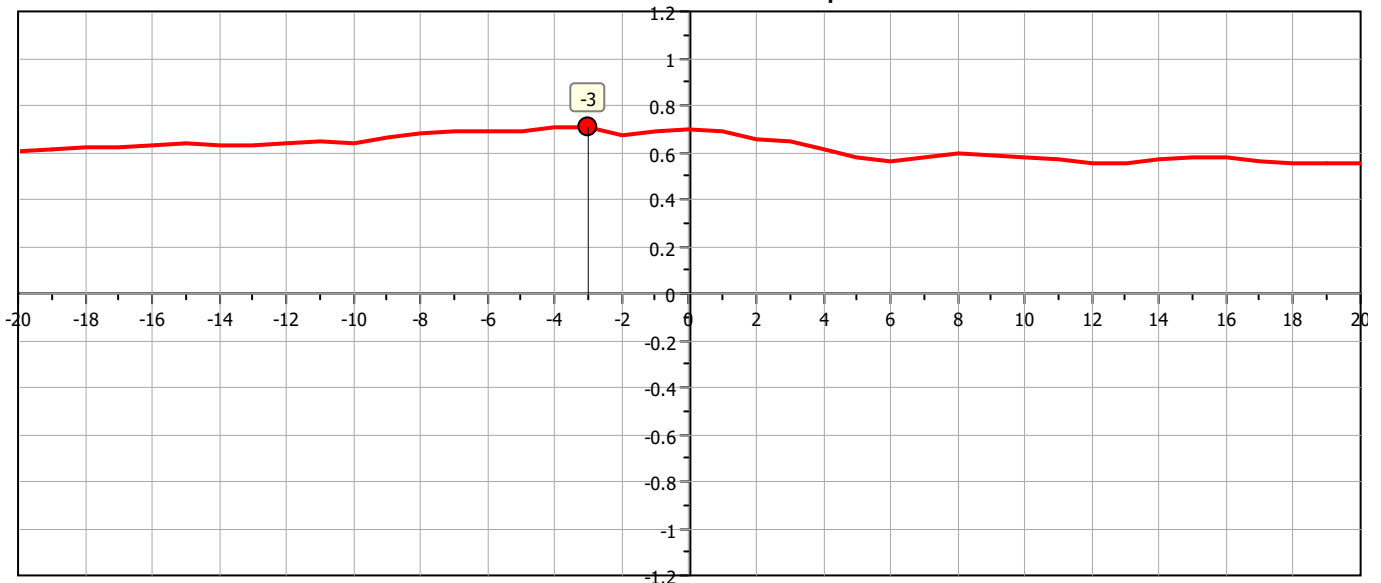
Hammer to Rod String Distance (ft): 3.28  
\* = Not Determined

COMMENT:



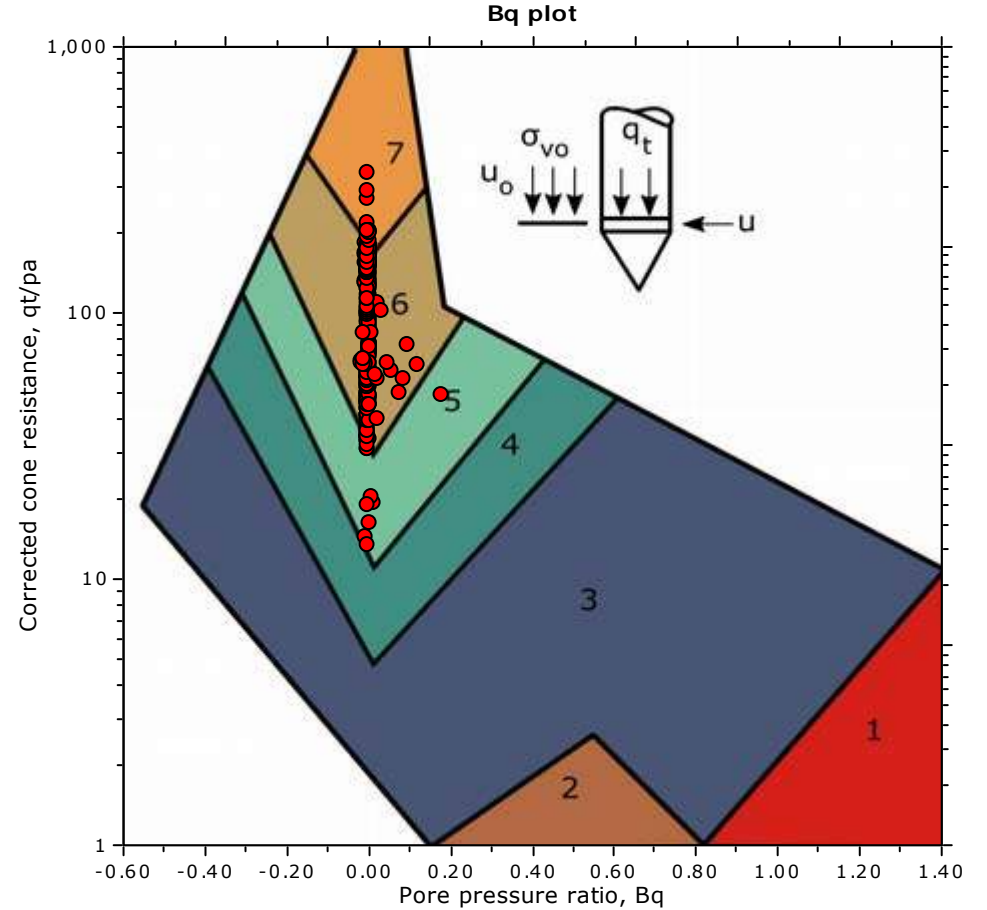
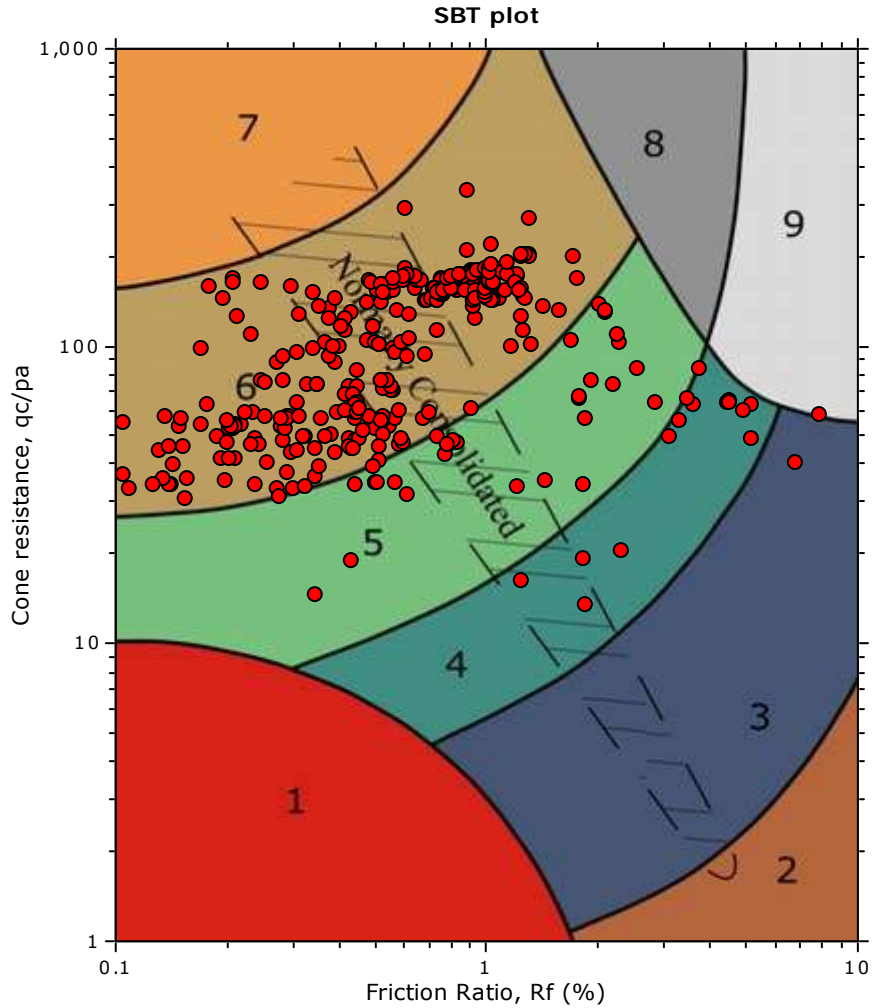
The plot below presents the cross correlation coefficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two successive CPT measurements).

Cross correlation between qc & fs





**SBT - Bq plots**

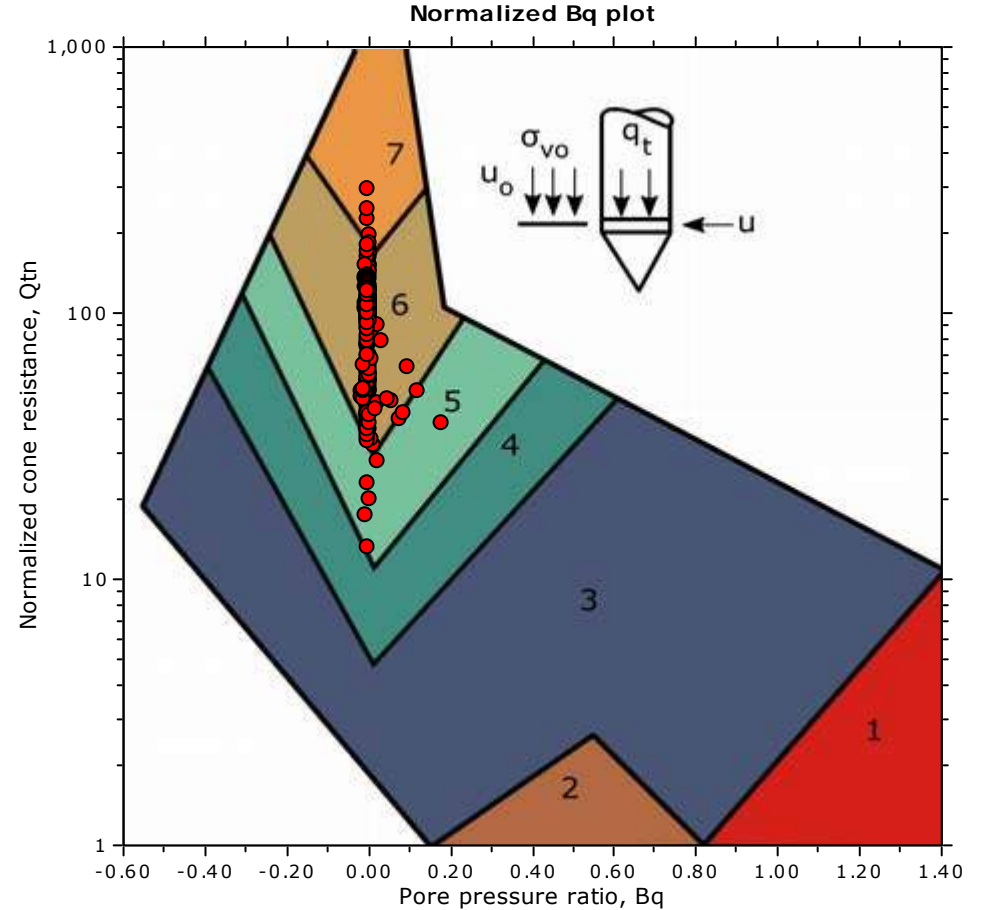
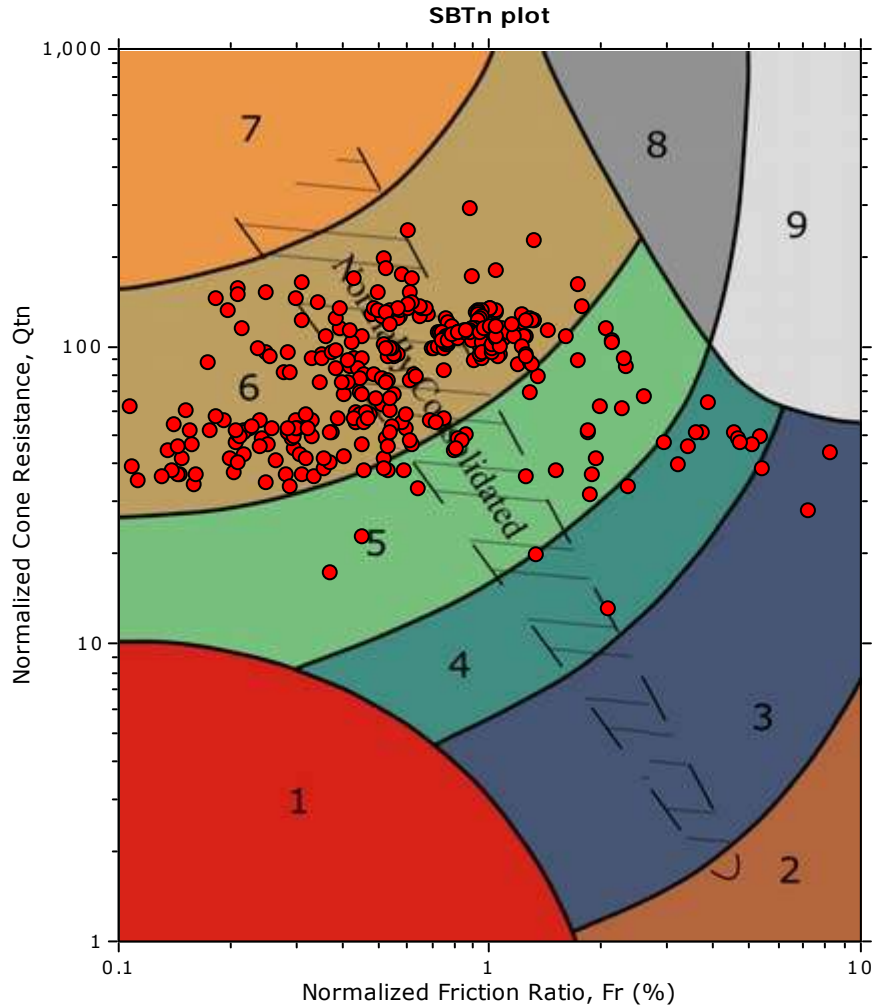


**SBT legend**

- |                           |                              |                                   |
|---------------------------|------------------------------|-----------------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty clay | 7. Gravelly sand to sand          |
| 2. Organic material       | 5. Silty sand to sandy silt  | 8. Very stiff sand to clayey sand |
| 3. Clay to silty clay     | 6. Clean sand to silty sand  | 9. Very stiff fine grained        |



**SBT - Bq plots (normalized)**

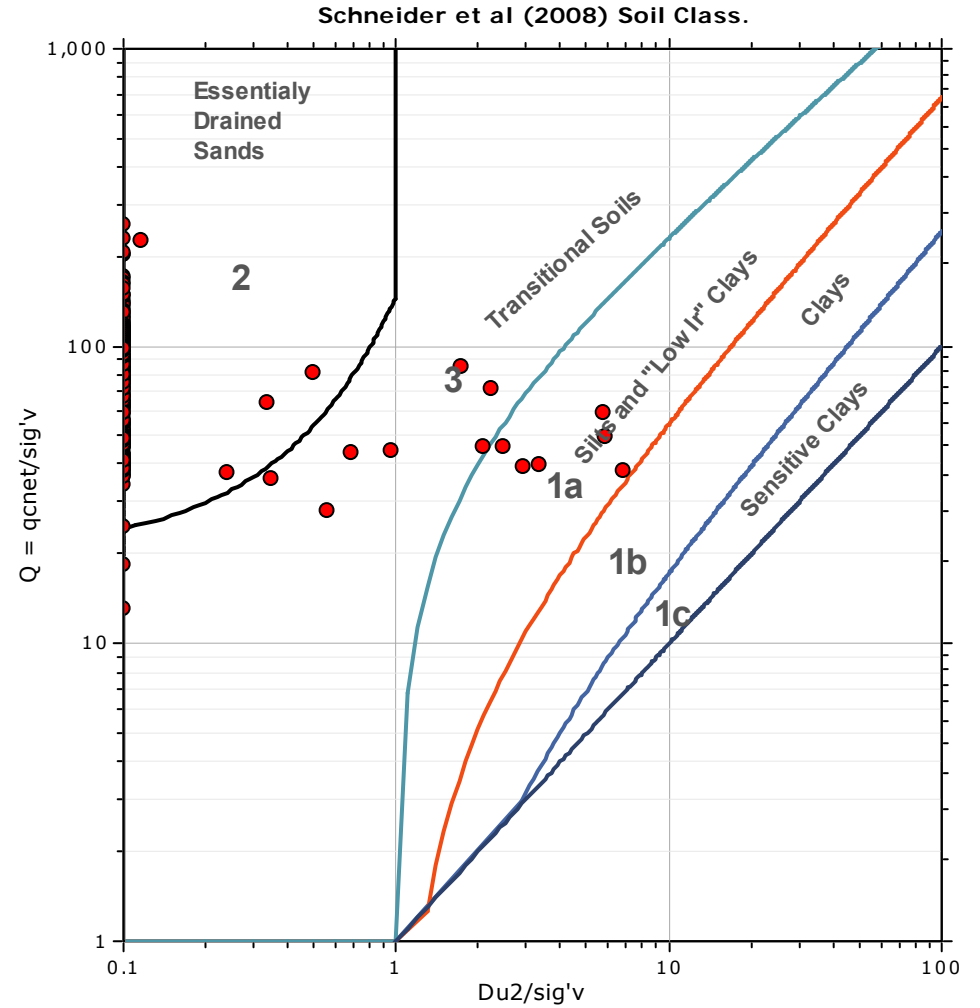
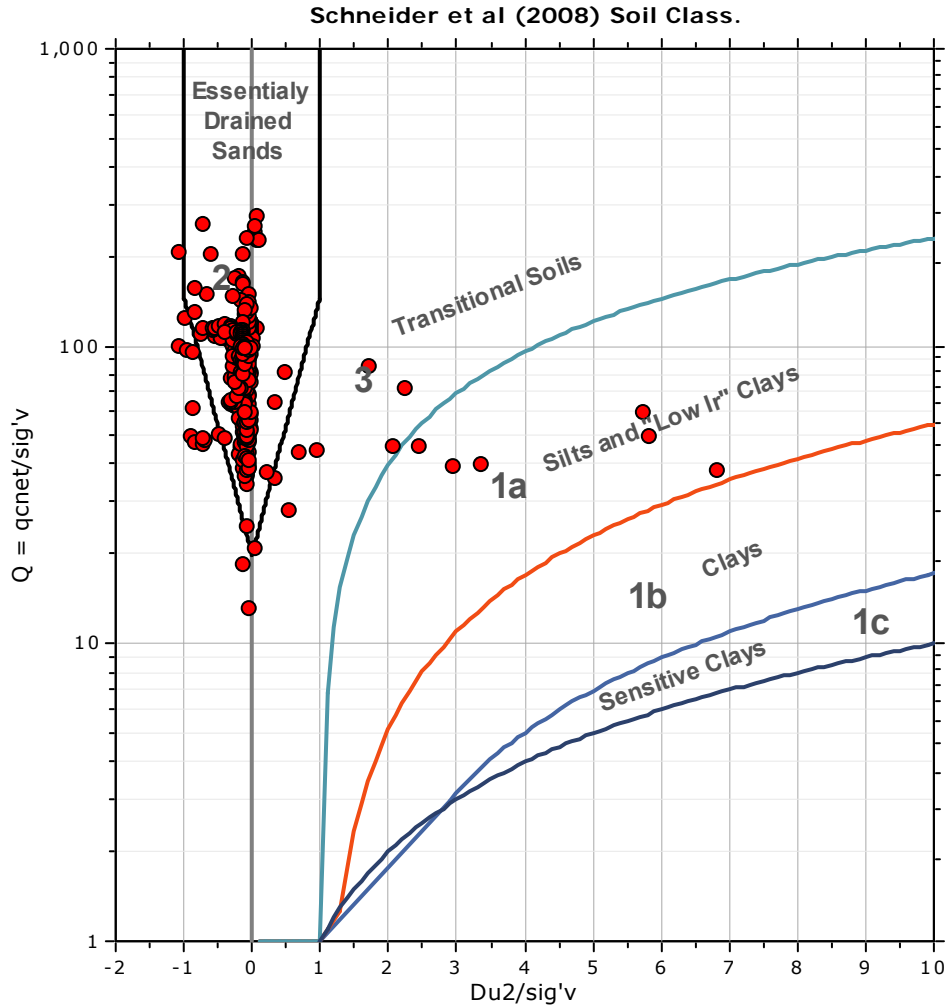


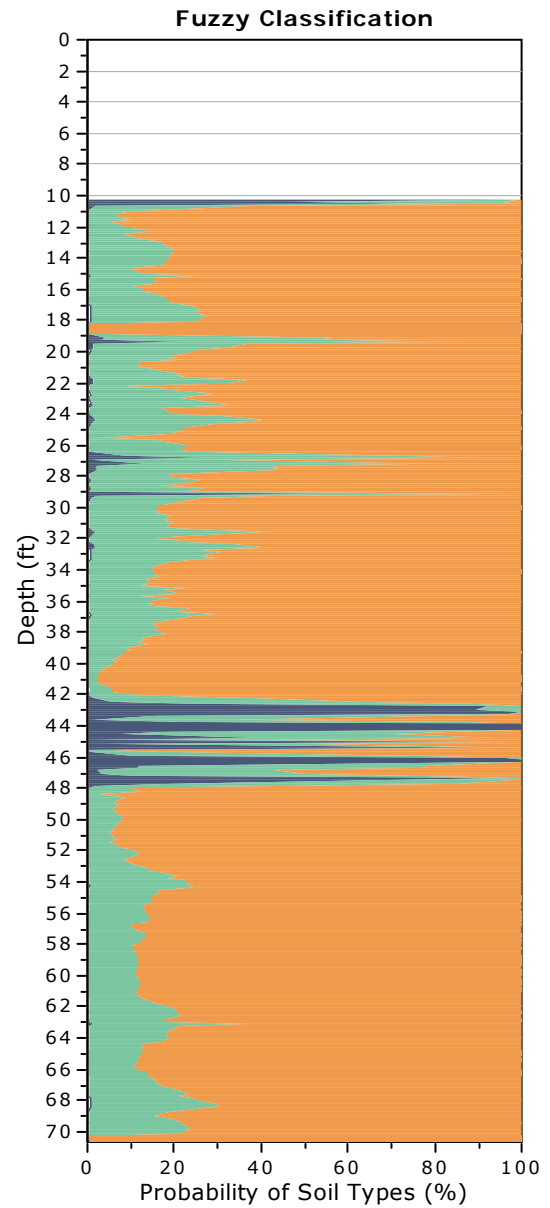
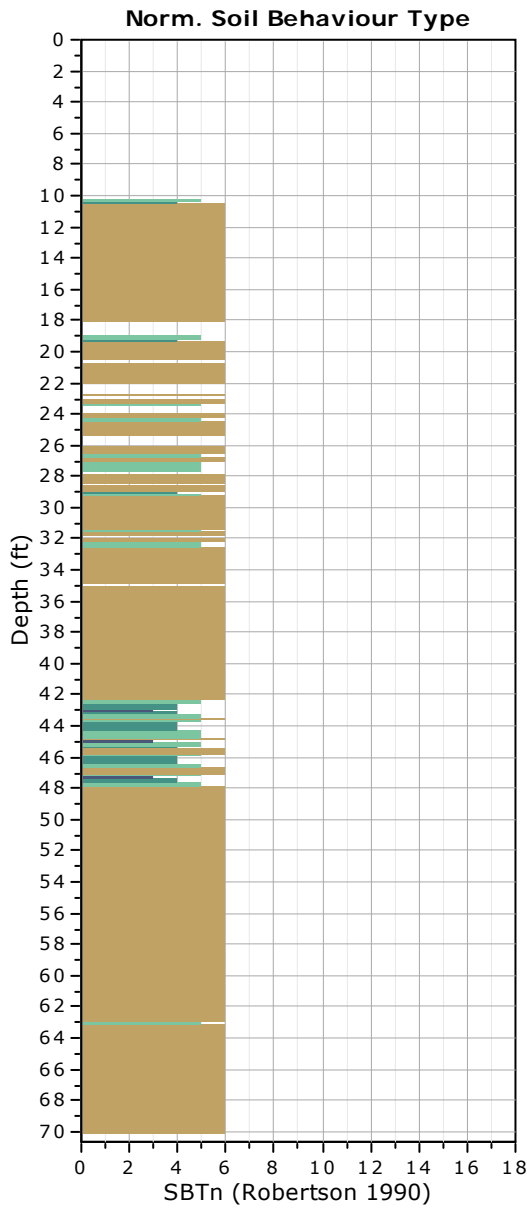
**SBTn legend**

- |                                                              |                                                                       |                                                                       |
|--------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| <span style="color: red;">■</span> 1. Sensitive fine grained | <span style="color: teal;">■</span> 4. Clayey silt to silty clay      | <span style="color: orange;">■</span> 7. Gravelly sand to sand        |
| <span style="color: brown;">■</span> 2. Organic material     | <span style="color: lightgreen;">■</span> 5. Silty sand to sandy silt | <span style="color: grey;">■</span> 8. Very stiff sand to clayey sand |
| <span style="color: blue;">■</span> 3. Clay to silty clay    | <span style="color: tan;">■</span> 6. Clean sand to silty sand        | <span style="color: lightgrey;">■</span> 9. Very stiff fine grained   |



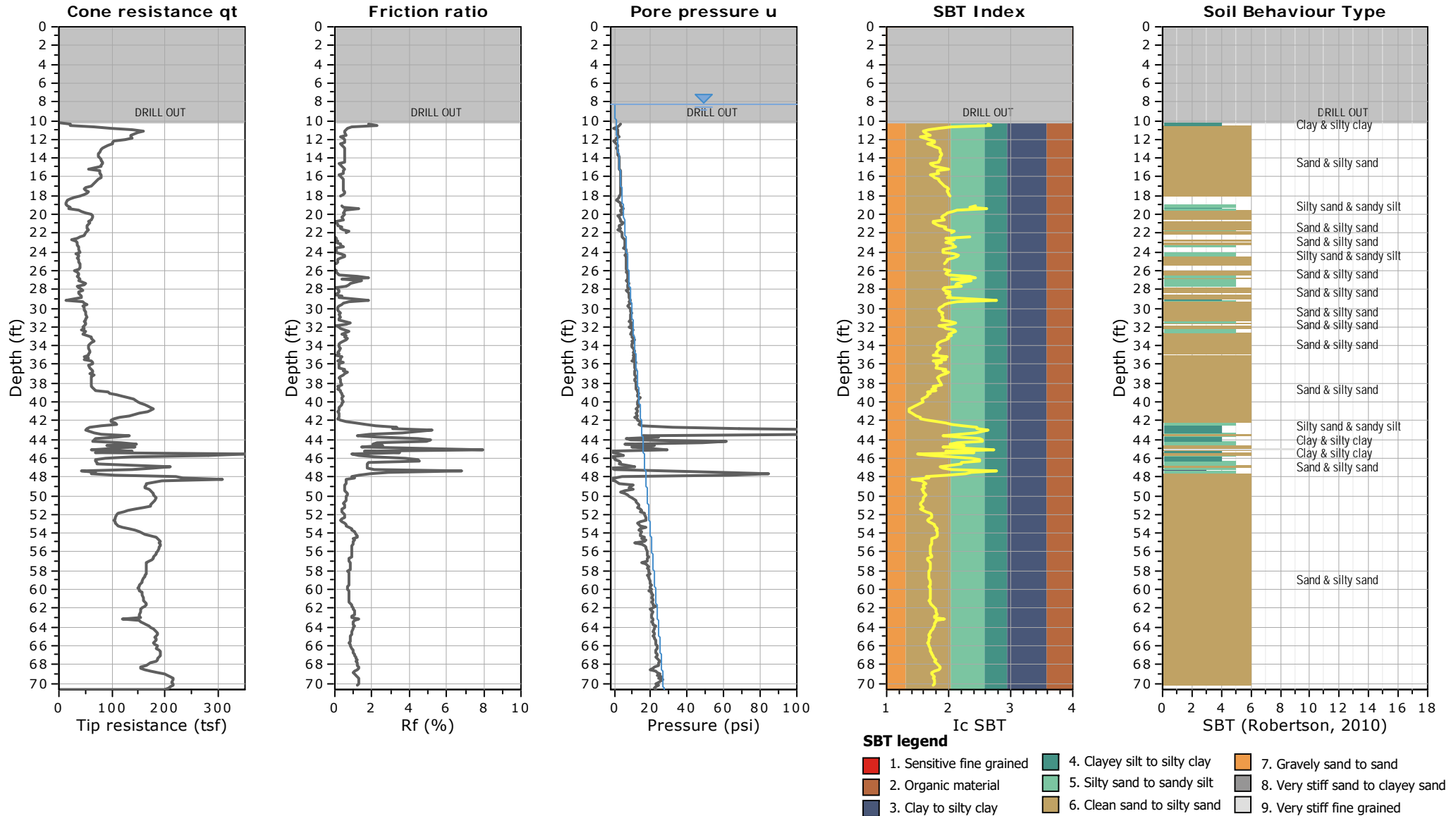
### Bq plots (Schneider)



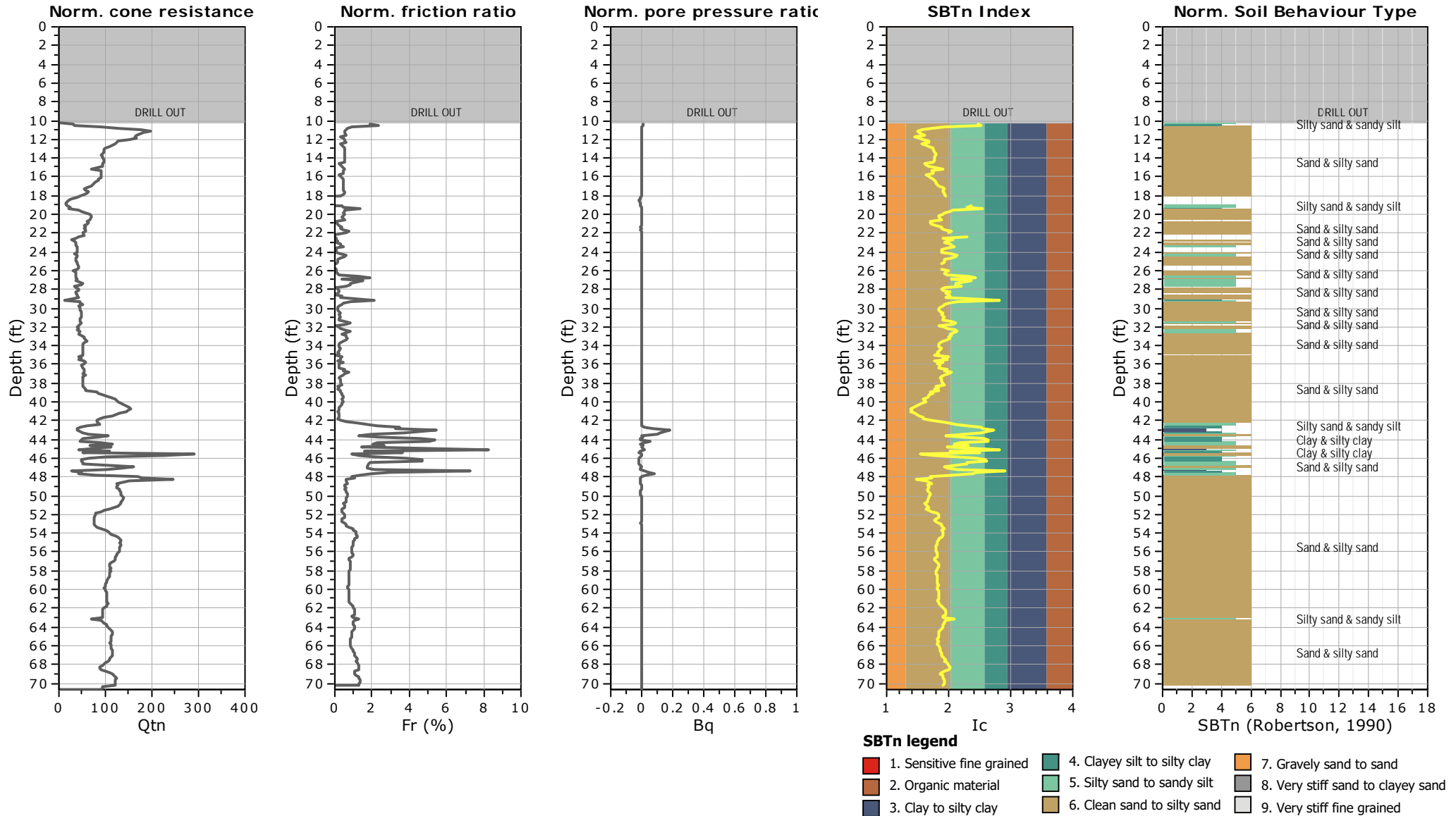


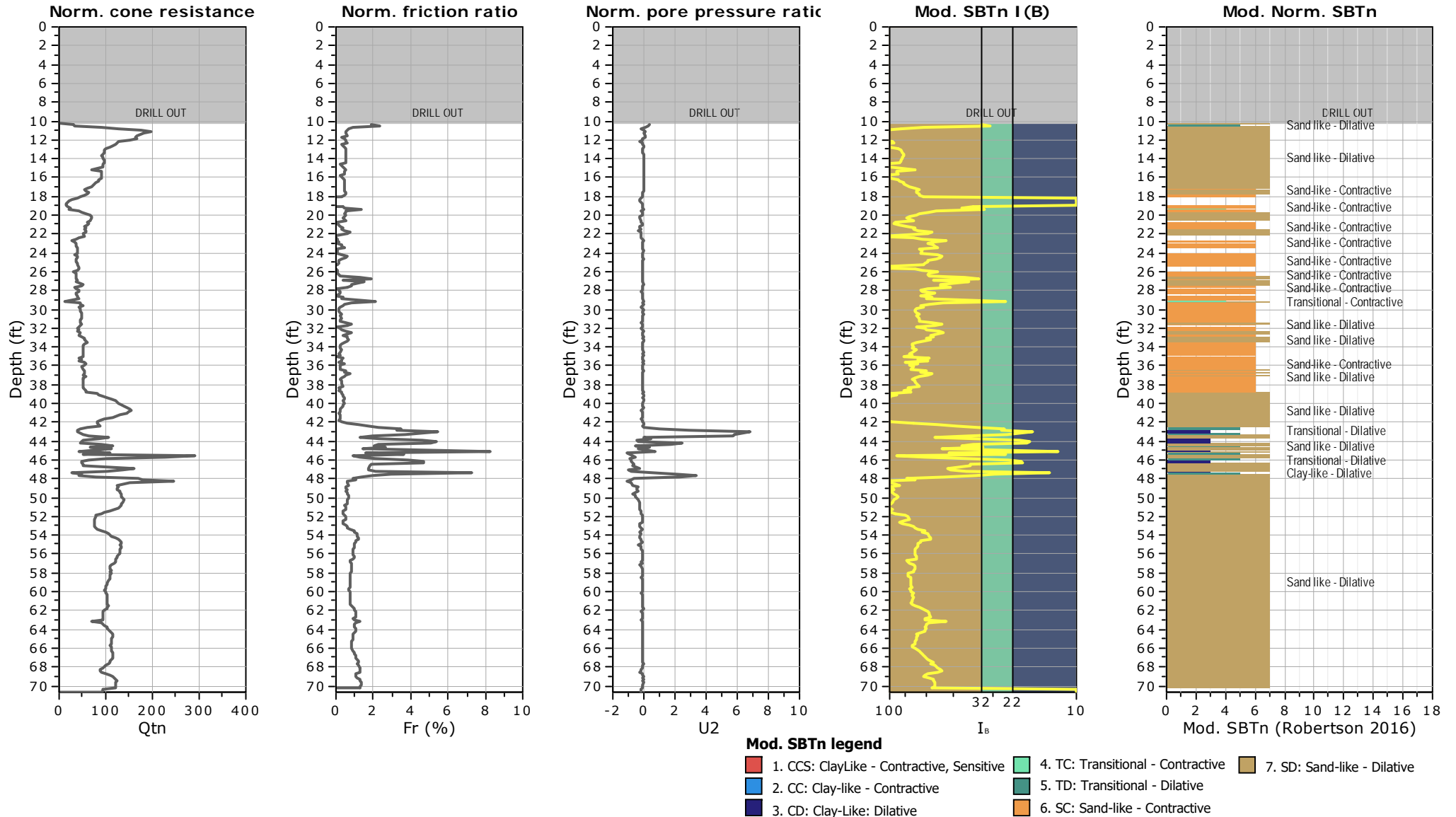
**Fuzzy classification legend**

- Highly probable clayey soil
- Highly probable mixture soil
- Highly probable sandy soil



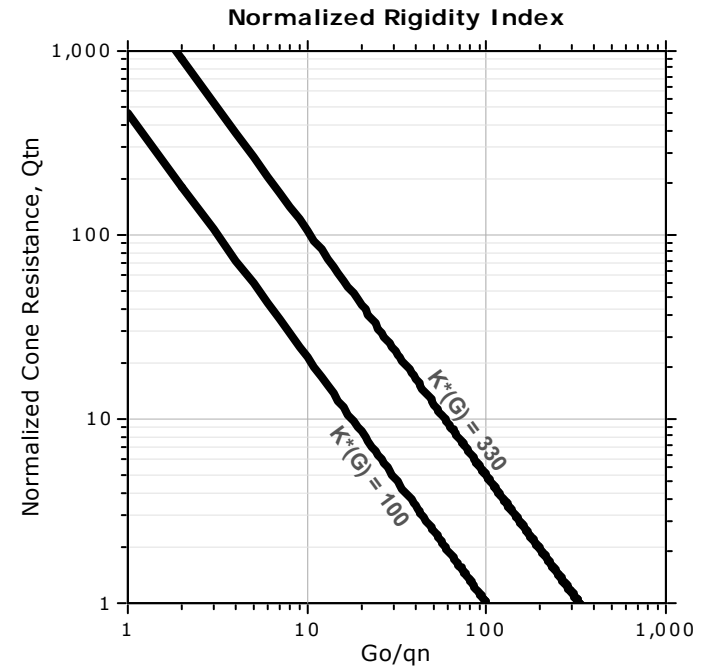
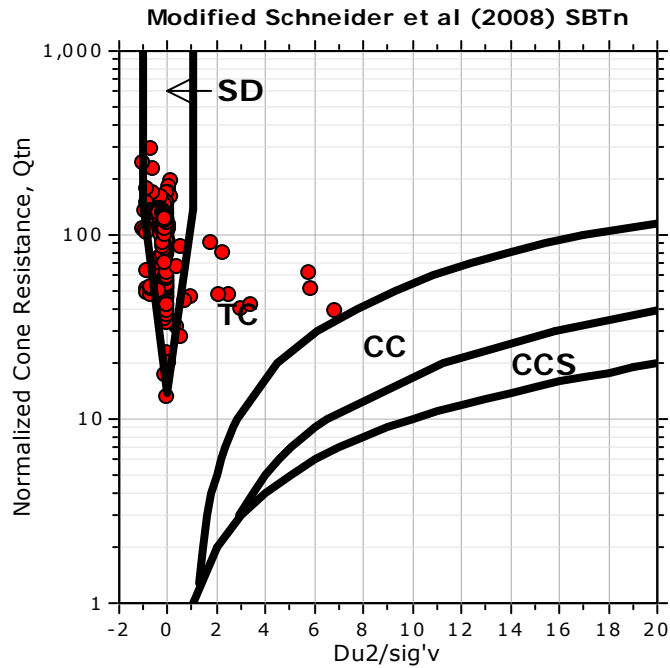
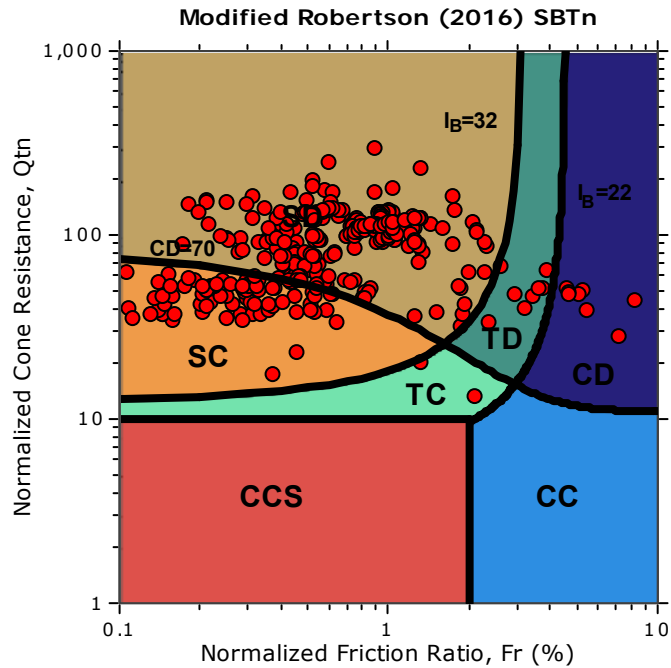






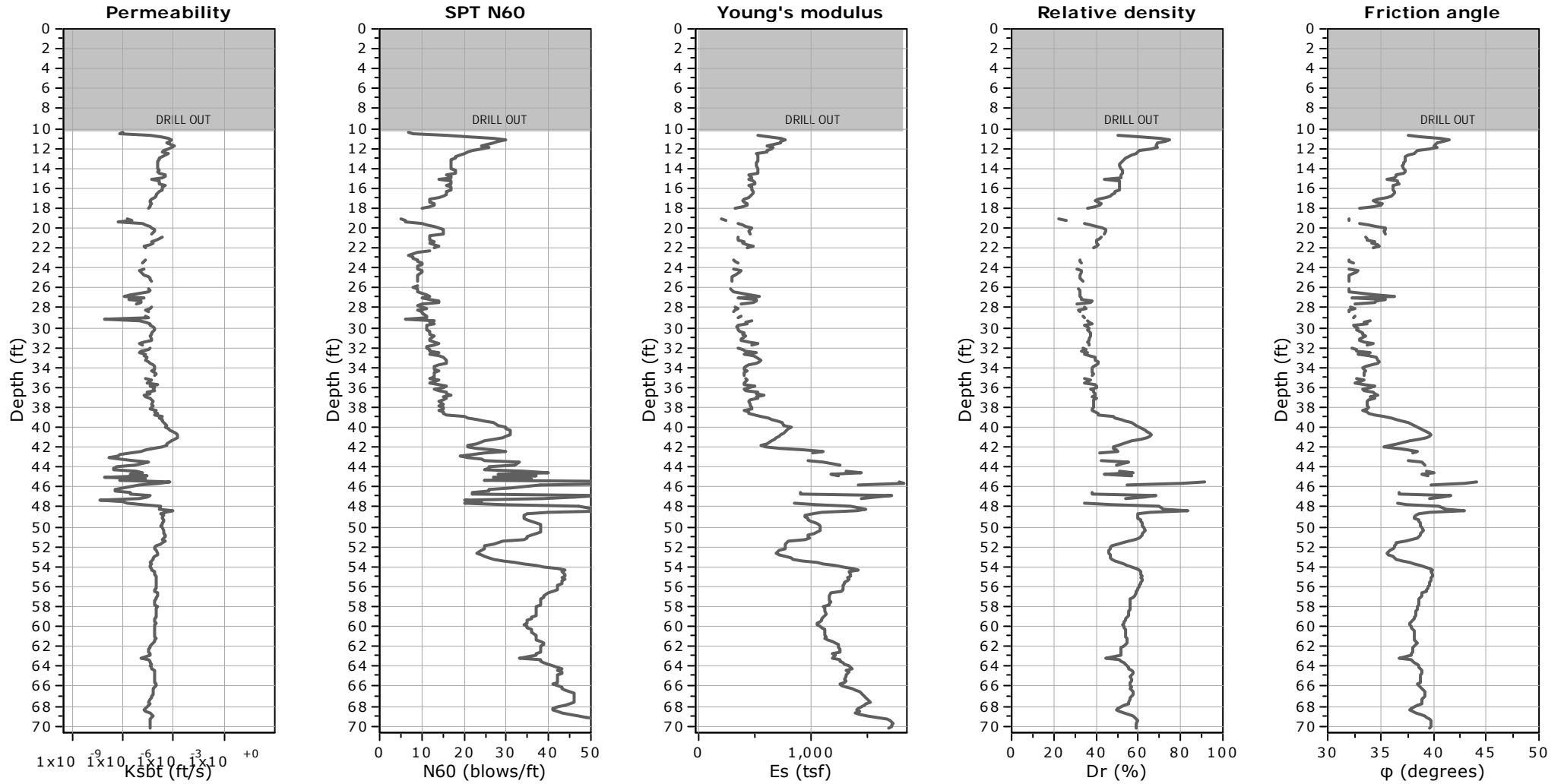


**Updated SBTn plots**



- CCS: Clay-like - Contractive - Sensitive
- CC: Clay-like - Contractive
- CD: Clay-like - Dilative
- TC: Transitional - Contractive
- TD: Transitional - Dilative
- SC: Sand-like - Contractive
- SD: Sand-like - Dilative

$K^*(G) > 330$ : Soils with significant microstructure (e.g. age/cementation)



**Calculation parameters**

Permeability: Based on  $SBT_n$

SPT  $N_{60}$ : Based on  $I_c$  and  $q_t$

Young's modulus: Based on variable alpha using  $I_c$  (Robertson, 2009)

Relative density constant,  $C_{Dr}$ : 350.0

Phi: Based on Kulhawy & Mayne (1990)

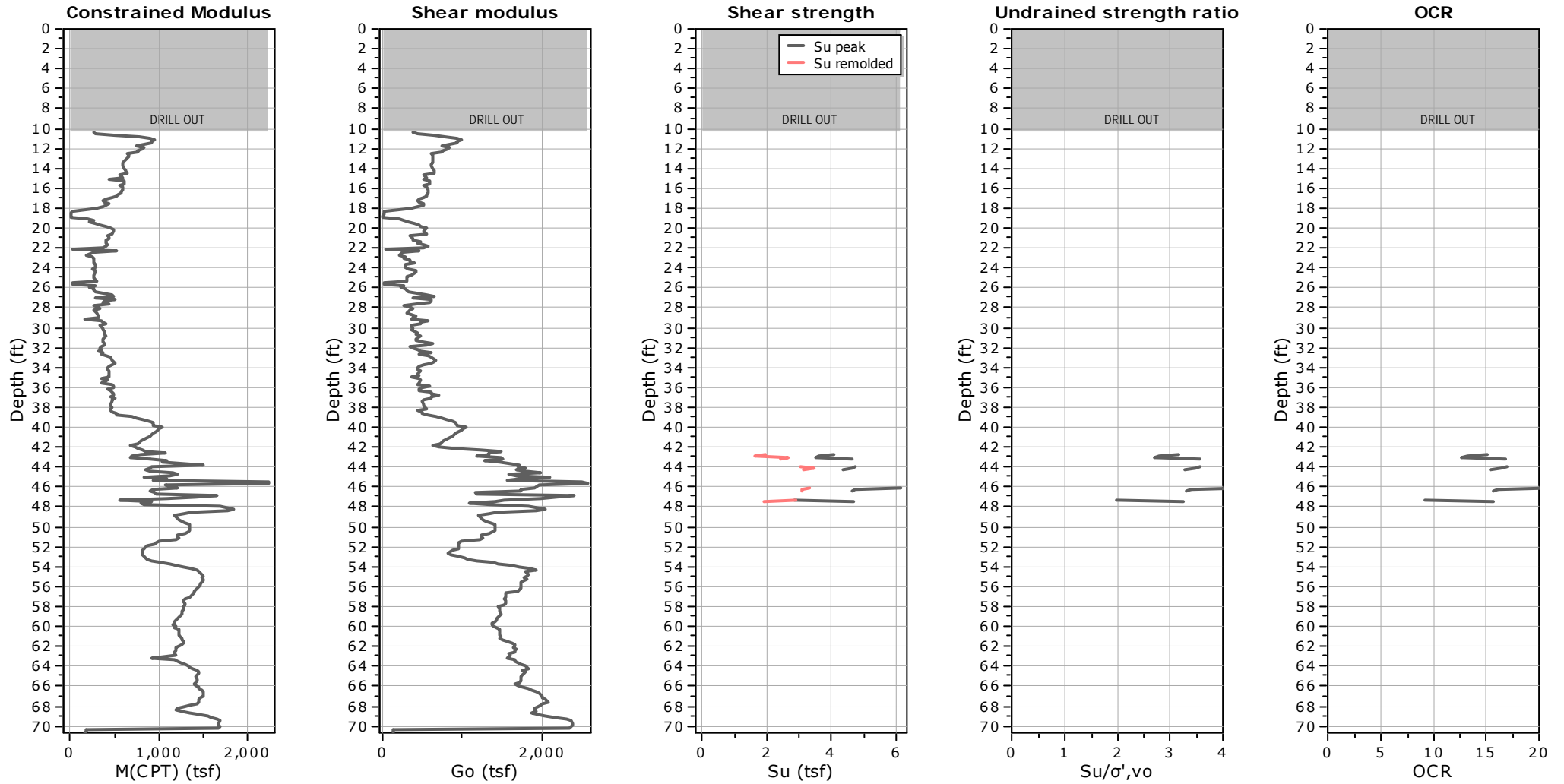


**Project: Langan**

**Location: 145 Wolcott St, Brooklyn NY**

**CPT-6**

Total depth: 70.67 ft



**Calculation parameters**

Constrained modulus: Based on variable  $\alpha$  using  $I_c$  and  $Q_{tn}$  (Robertson, 2009)

Go: Based on variable  $\alpha$  using  $I_c$  (Robertson, 2009)

Undrained shear strength cone factor for clays,  $N_{kt}$ : 14

OCR factor for clays,  $N_{kt}$ : 0.33

● Flat Dilatometer Test data

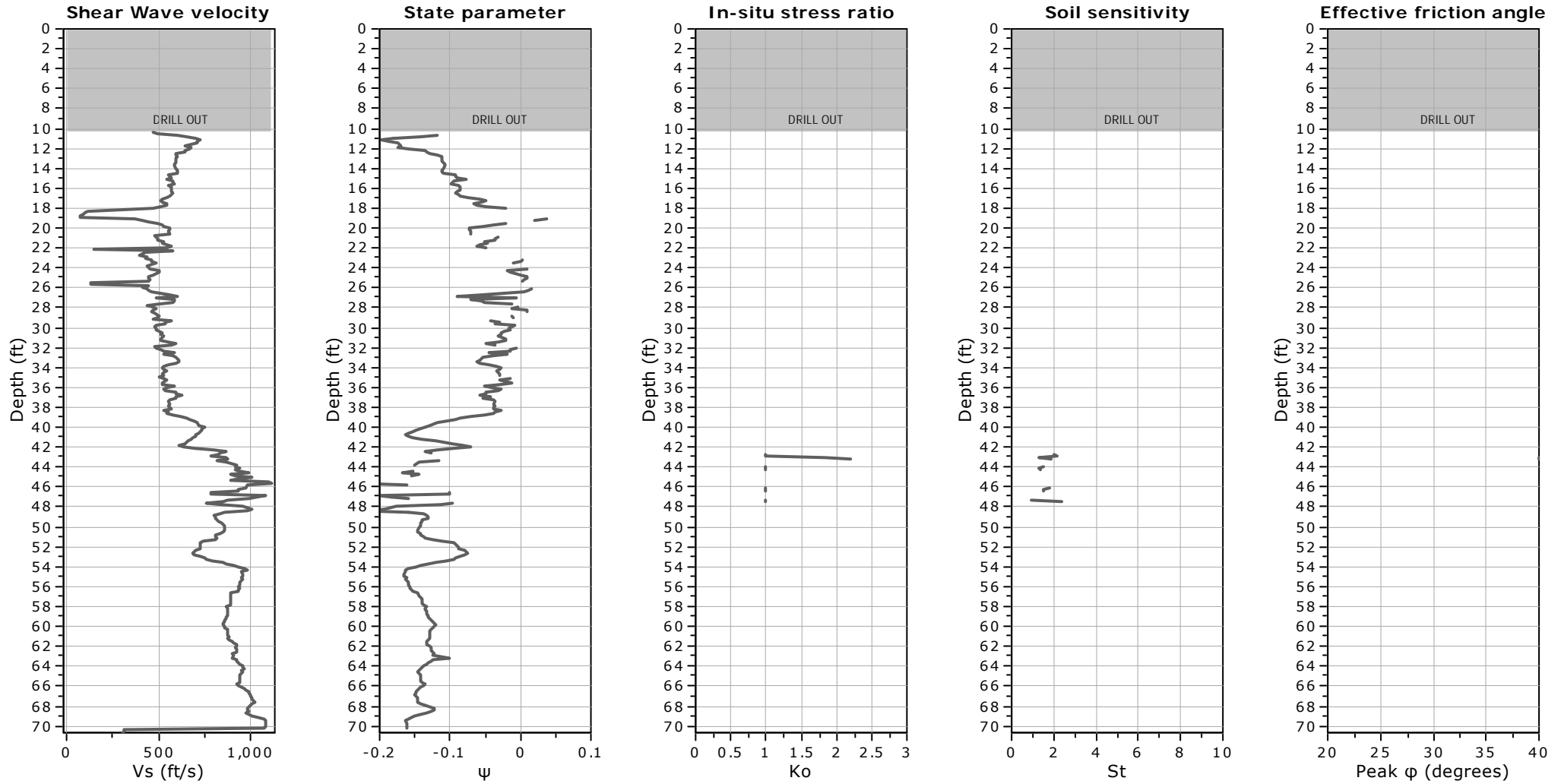


Project: Langan

Location: 145 Wolcott St, Brooklyn NY

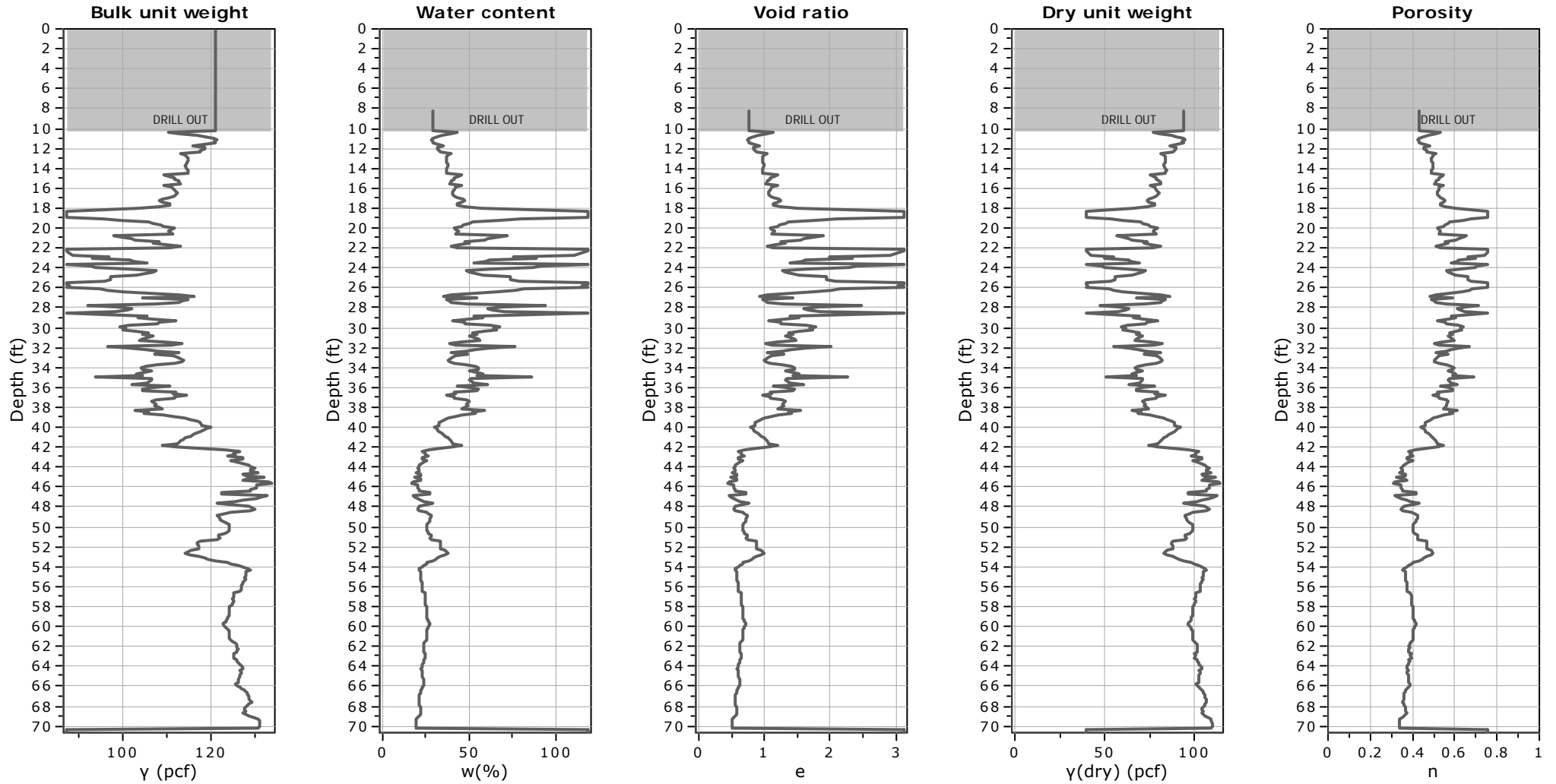
CPT-6

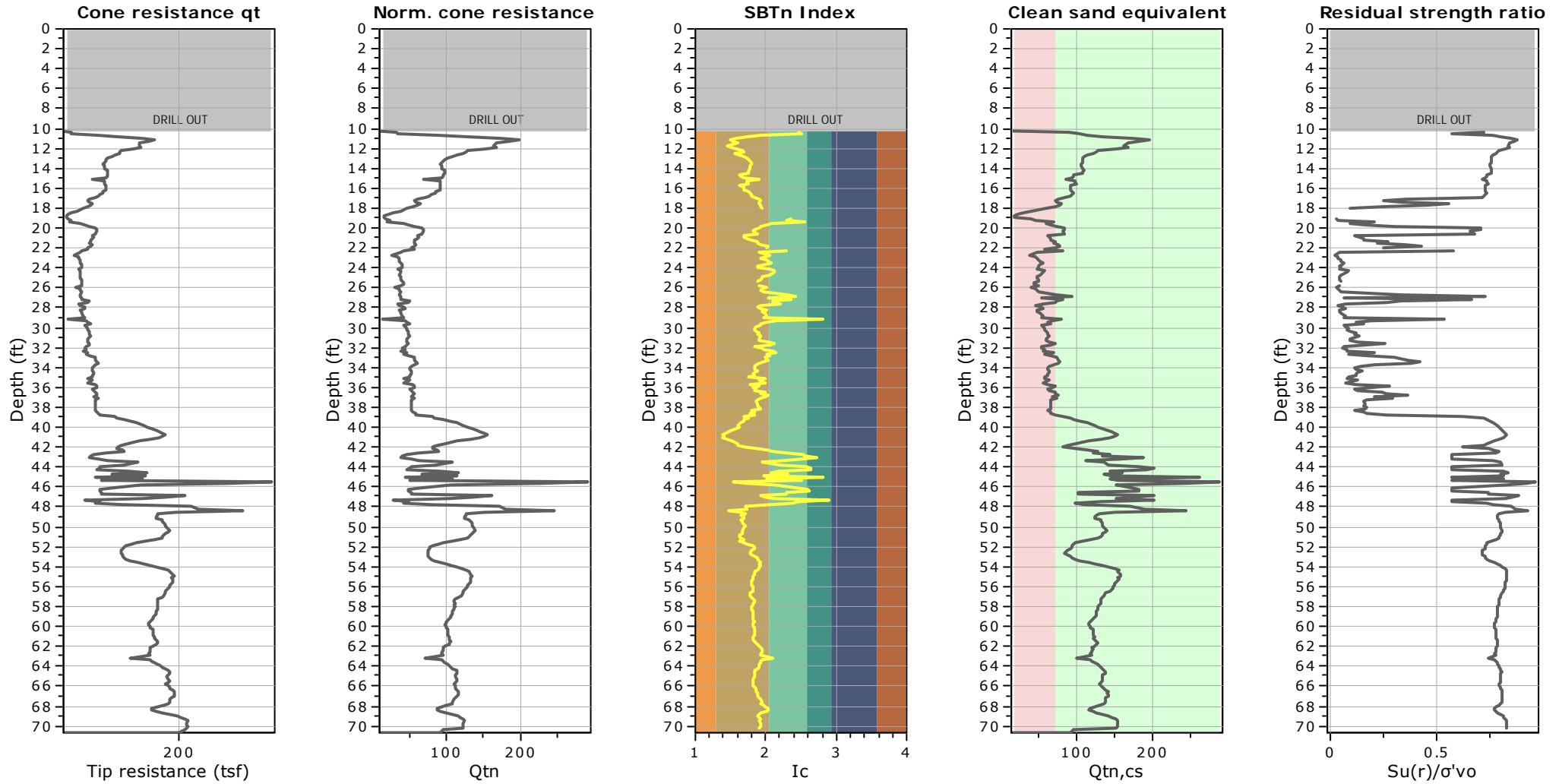
Total depth: 70.67 ft



**Calculation parameters**

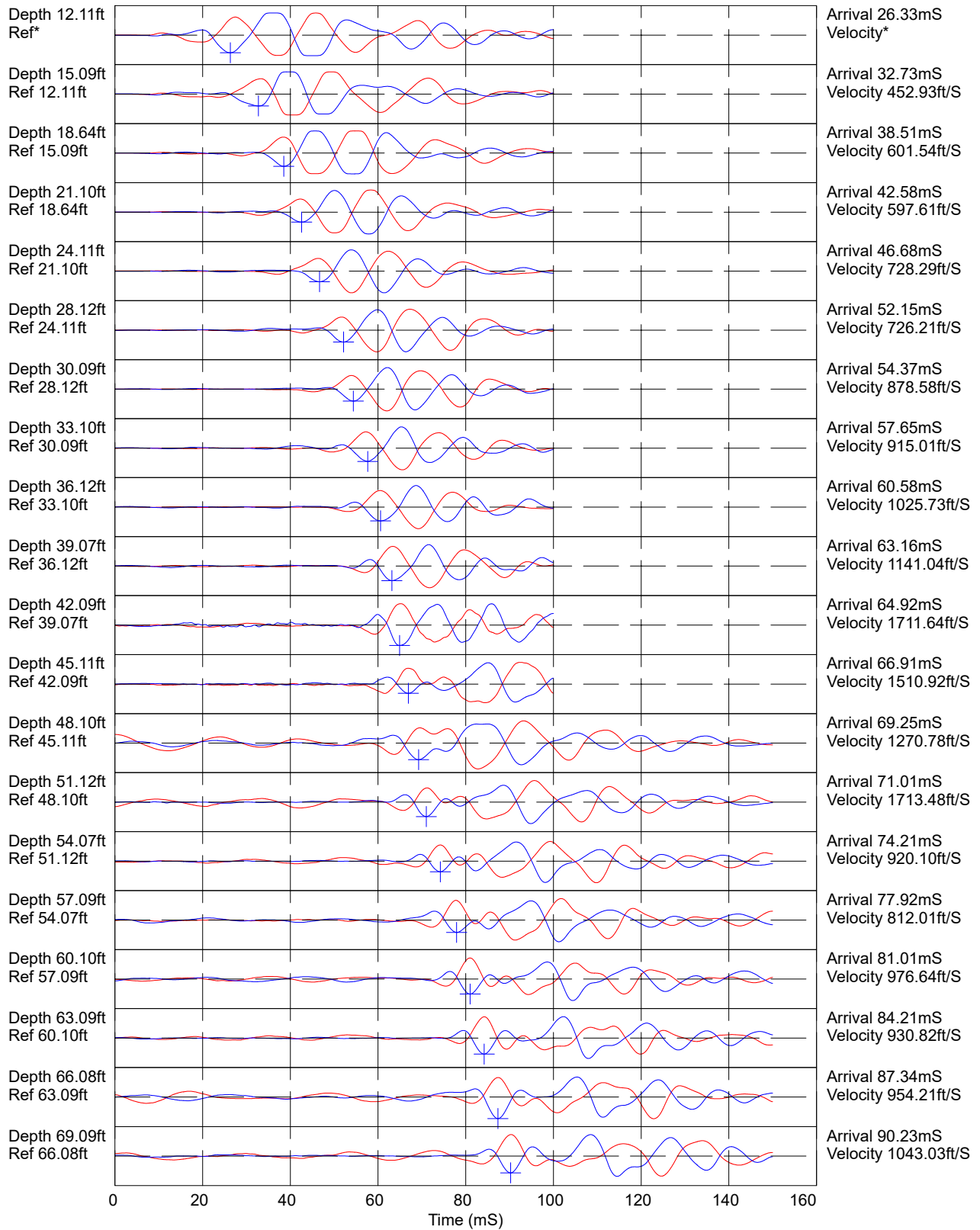
Soil Sensitivity factor,  $N_s$ : 7.00







### SEISMIC TEST

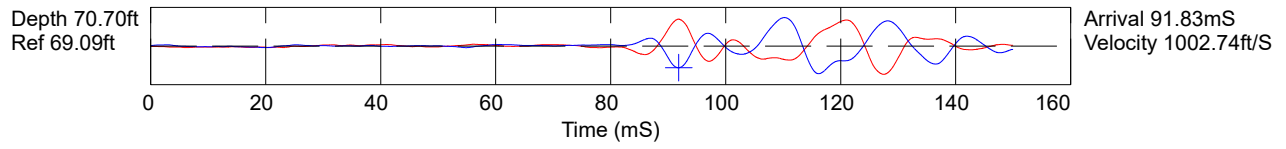


Hammer to Rod String Distance (ft): 3.28

\* = Not Determined

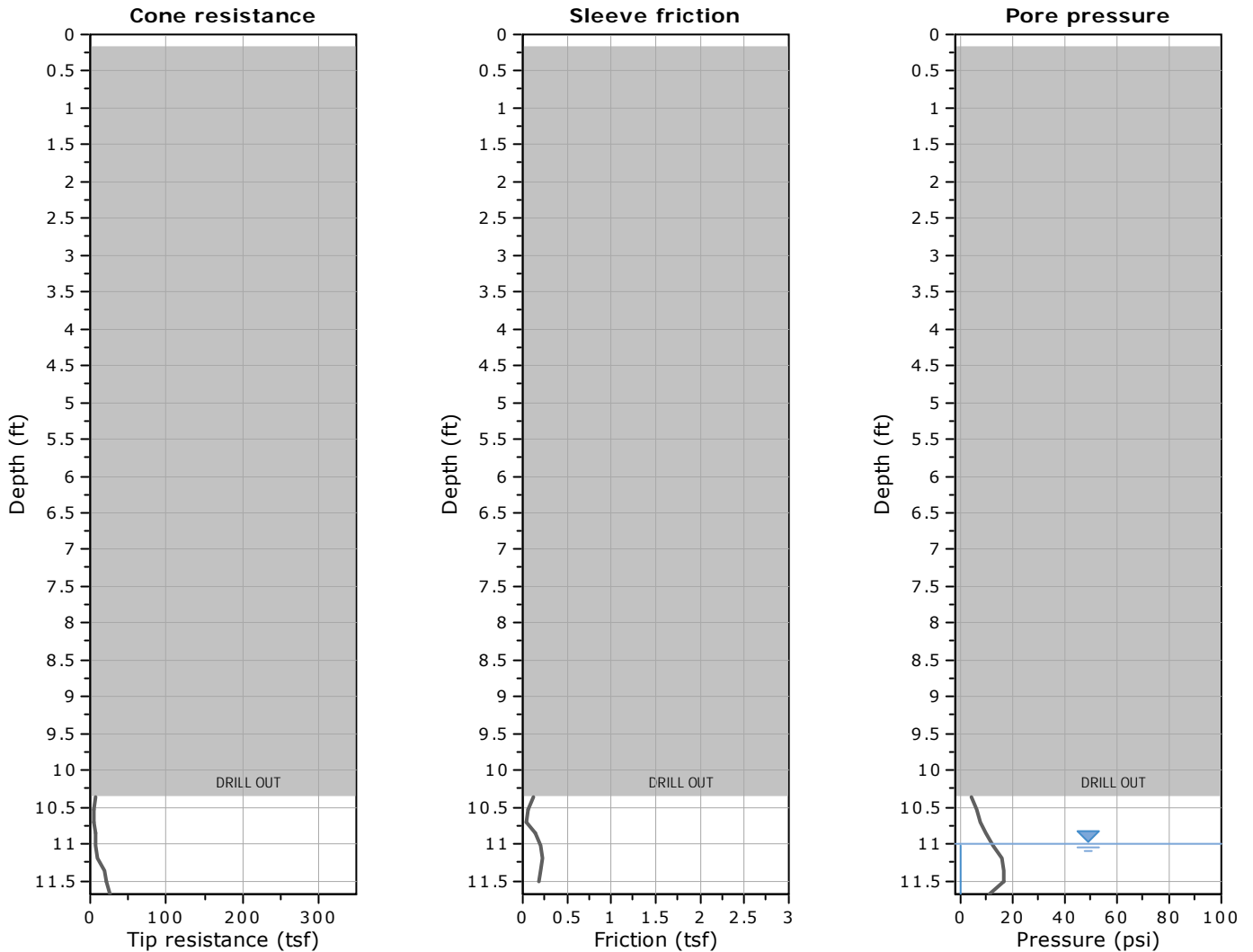
COMMENT:

### SEISMIC TEST



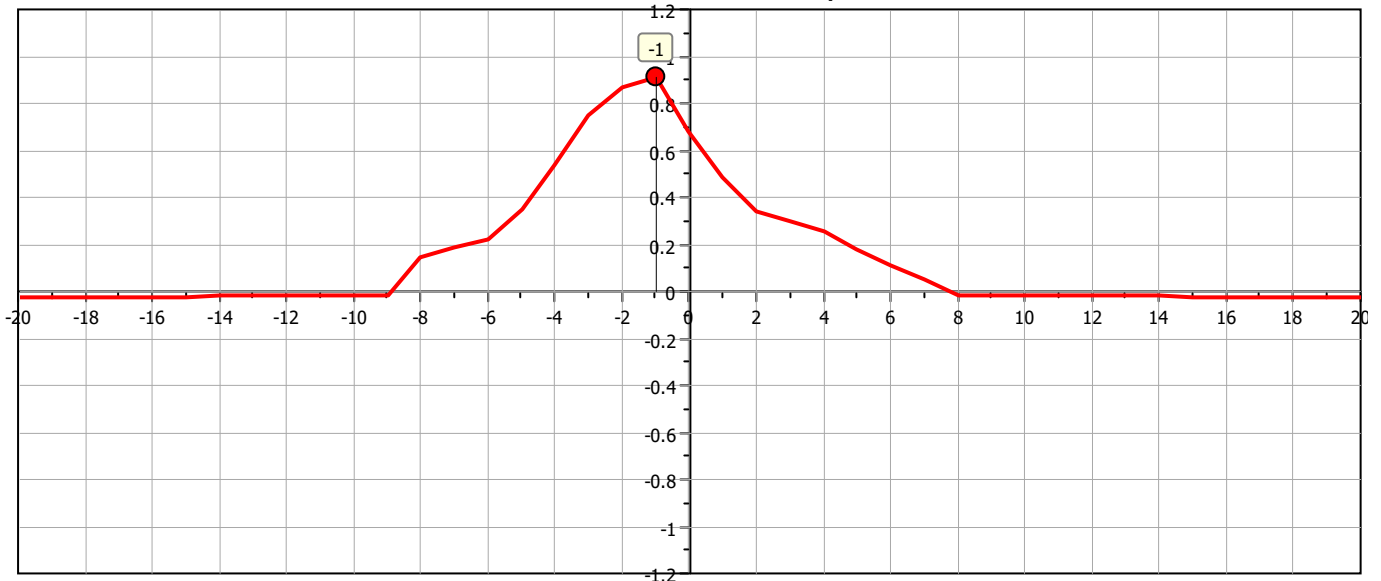
Hammer to Rod String Distance (ft): 3.28  
\* = Not Determined

COMMENT:



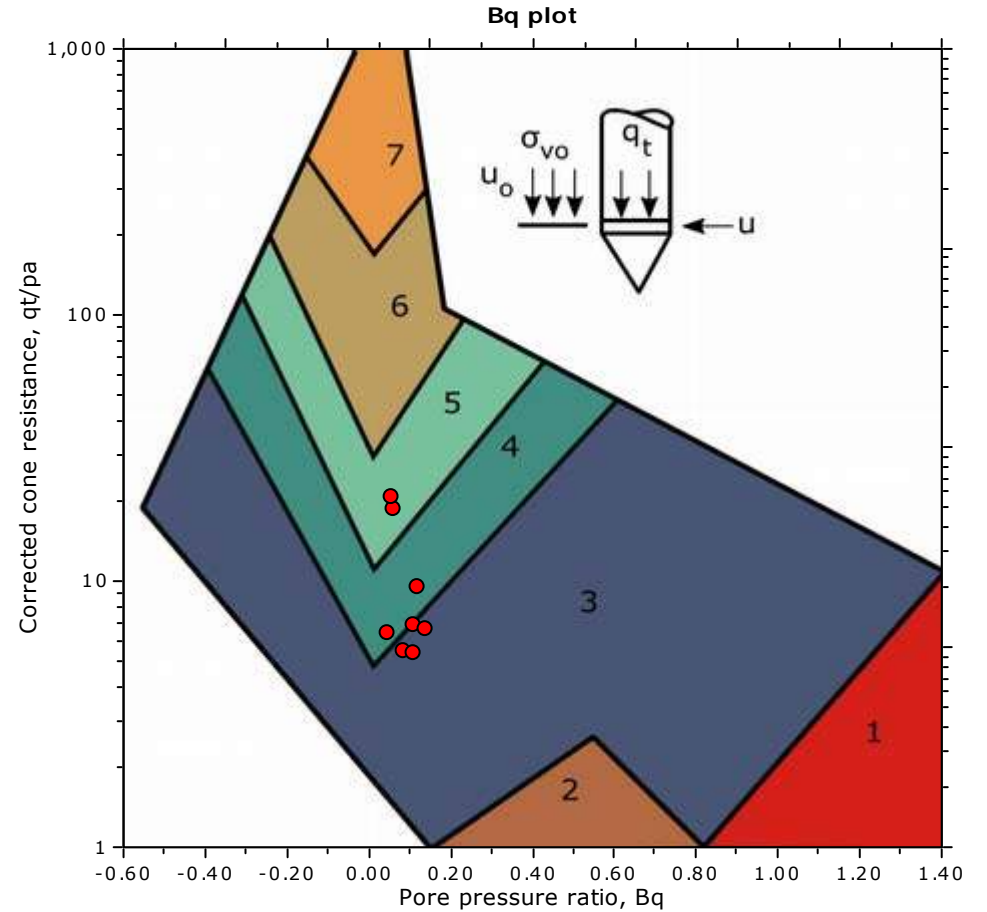
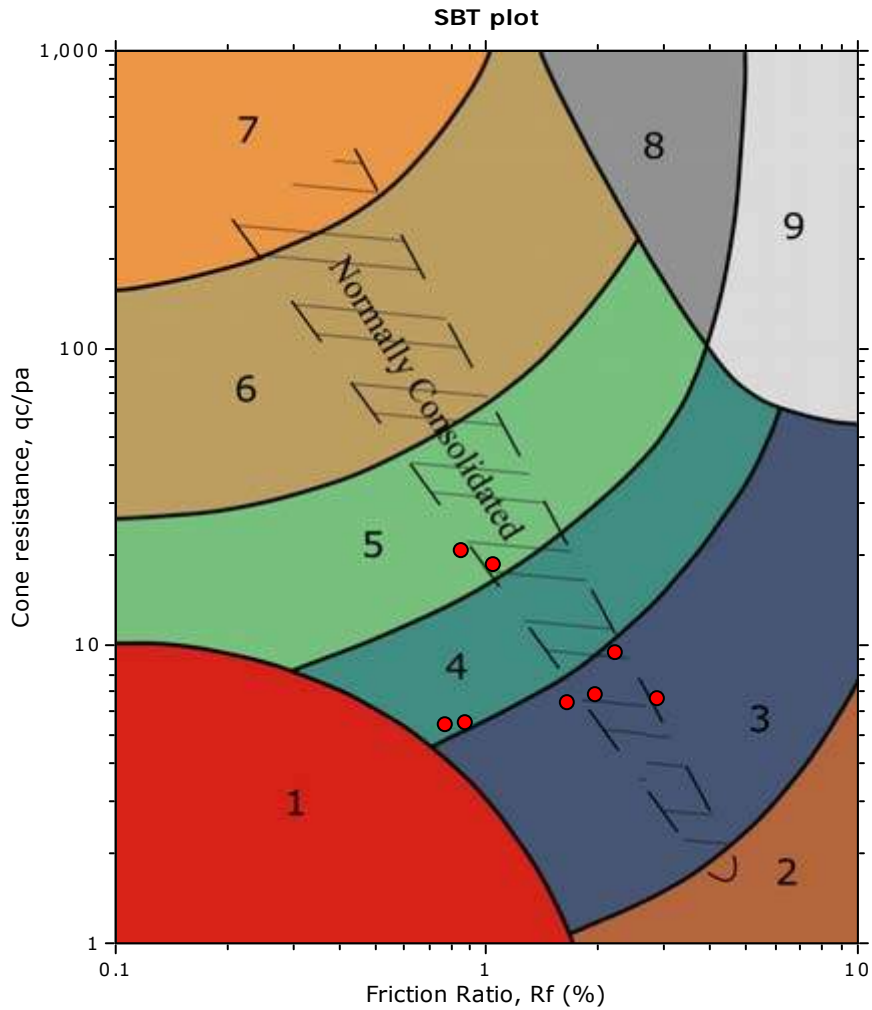
The plot below presents the cross correlation coefficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two successive CPT measurements).

Cross correlation between qc & fs





**SBT - Bq plots**

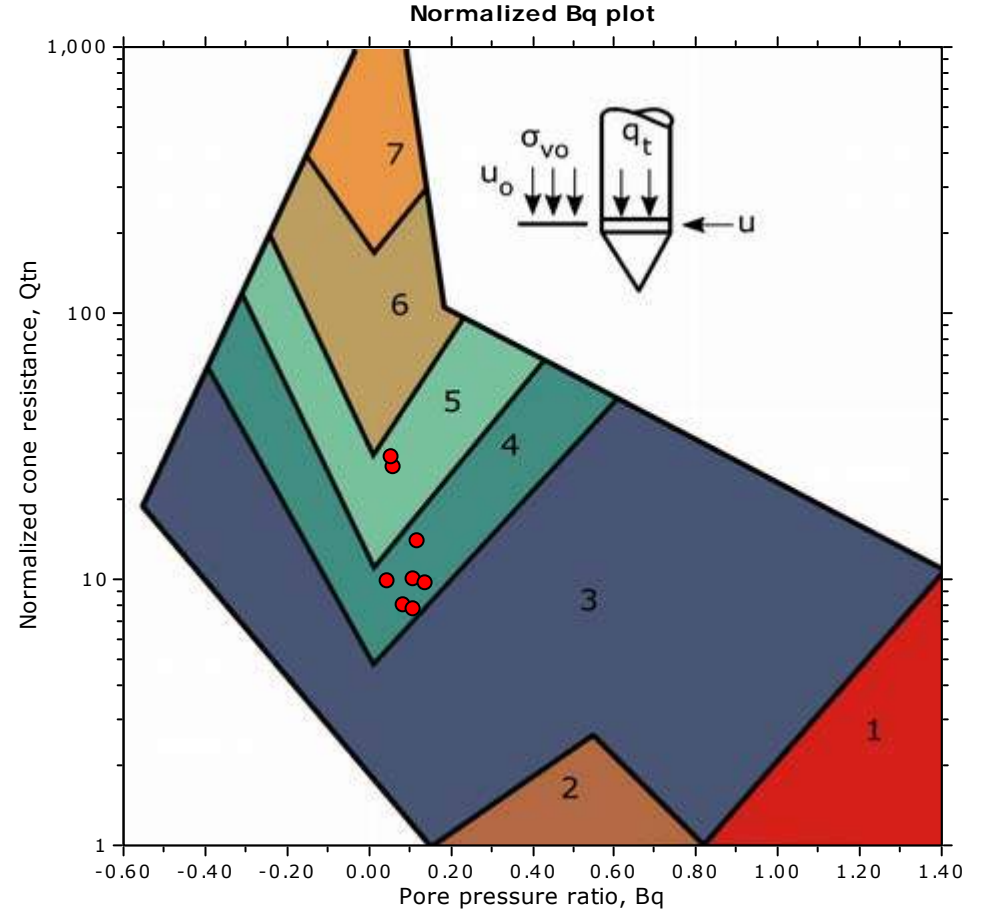
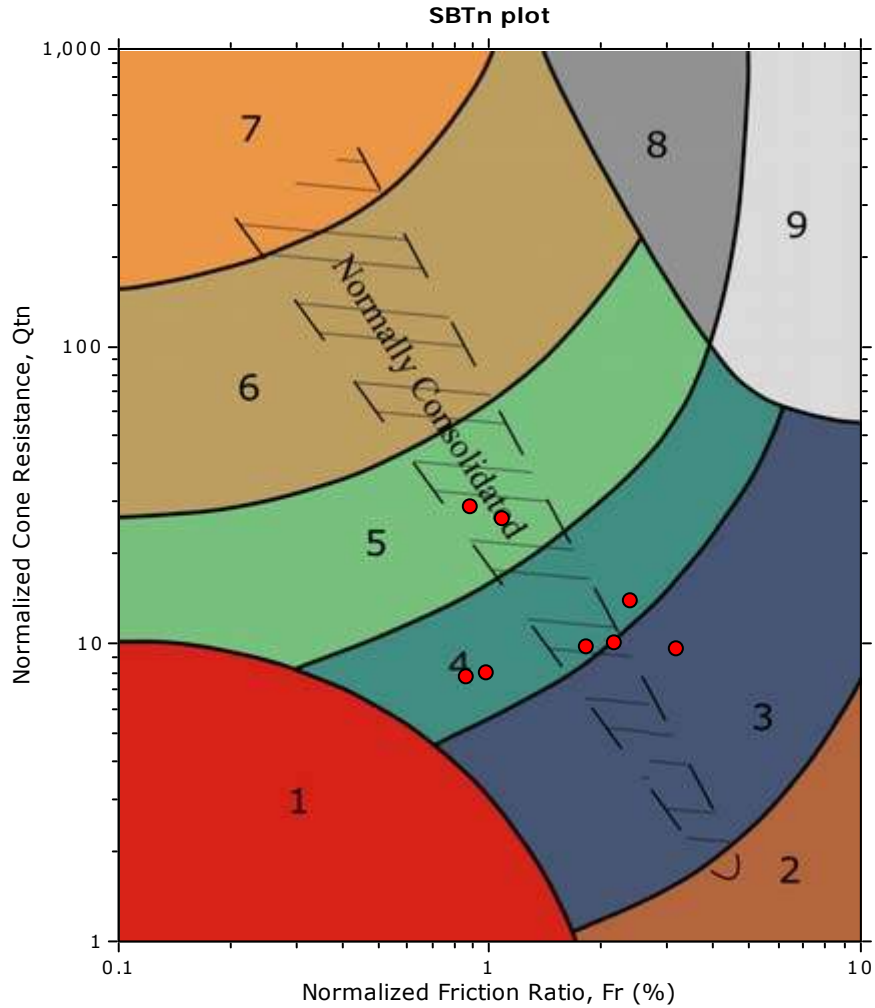


**SBT legend**

- |                           |                              |                                   |
|---------------------------|------------------------------|-----------------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty clay | 7. Gravelly sand to sand          |
| 2. Organic material       | 5. Silty sand to sandy silt  | 8. Very stiff sand to clayey sand |
| 3. Clay to silty clay     | 6. Clean sand to silty sand  | 9. Very stiff fine grained        |



**SBT - Bq plots (normalized)**

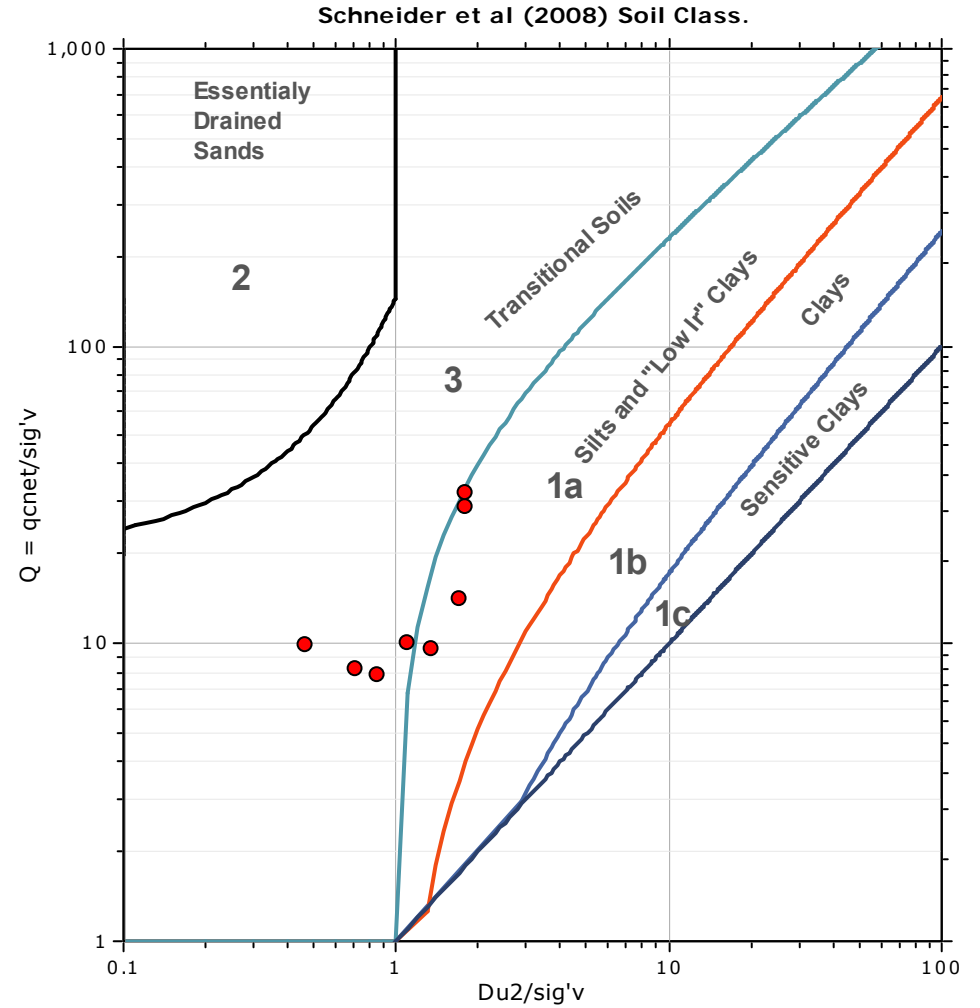
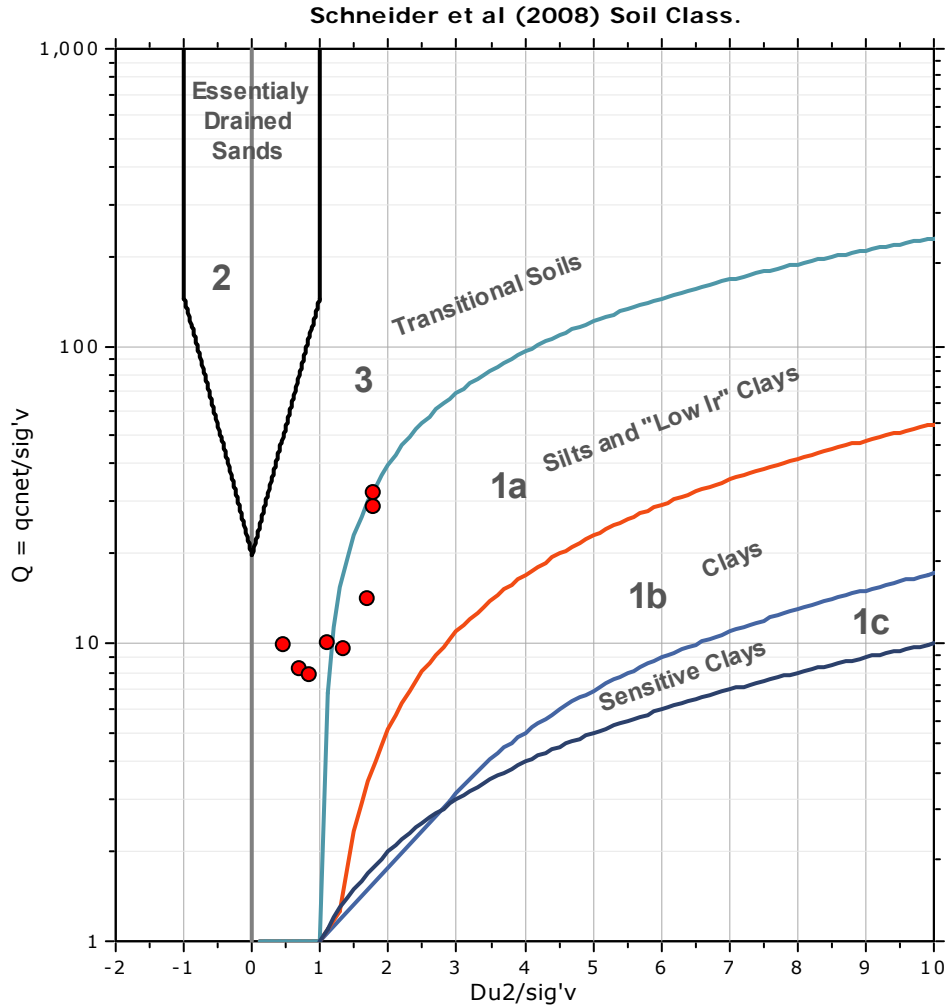


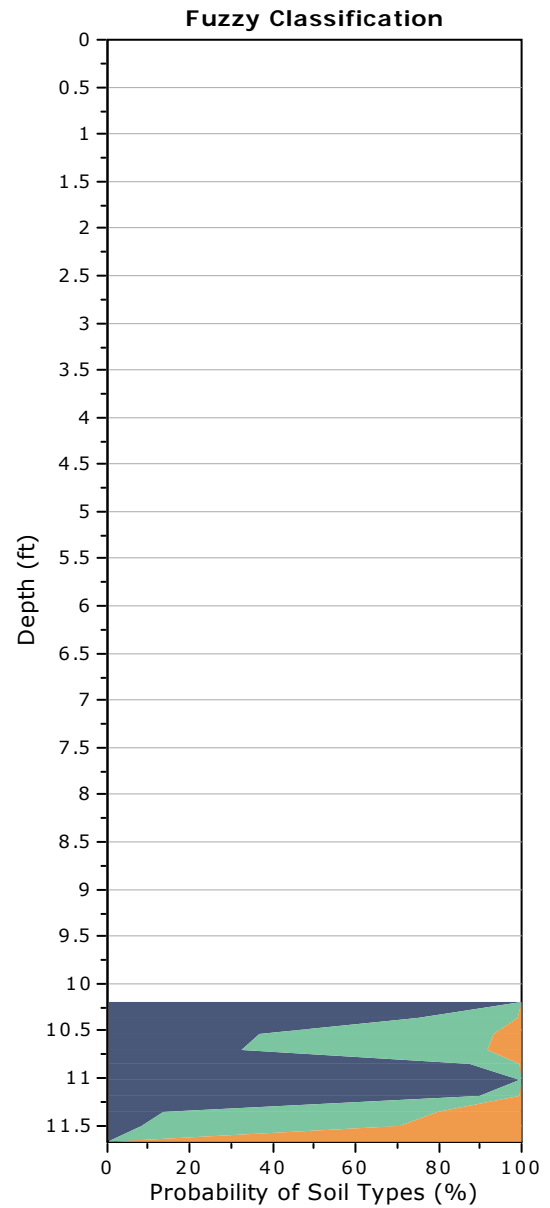
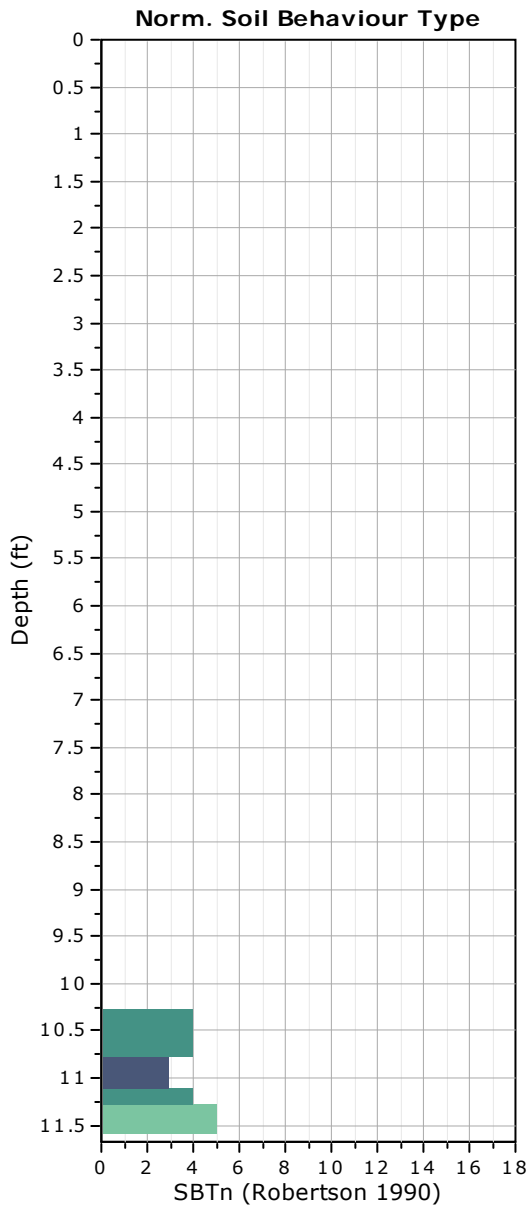
**SBTn legend**

- |                           |                              |                                   |
|---------------------------|------------------------------|-----------------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty clay | 7. Gravelly sand to sand          |
| 2. Organic material       | 5. Silty sand to sandy silt  | 8. Very stiff sand to clayey sand |
| 3. Clay to silty clay     | 6. Clean sand to silty sand  | 9. Very stiff fine grained        |



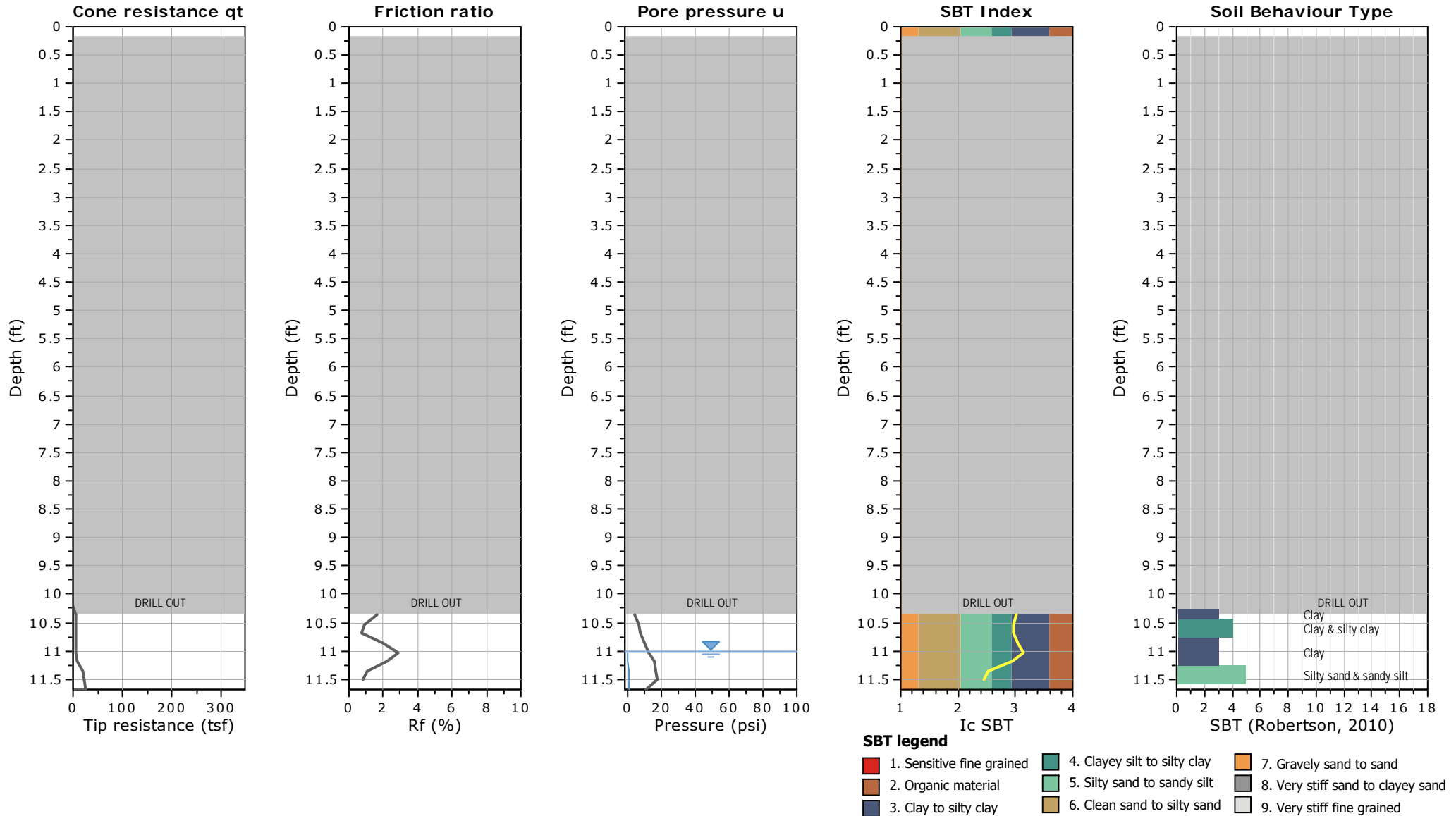
### Bq plots (Schneider)



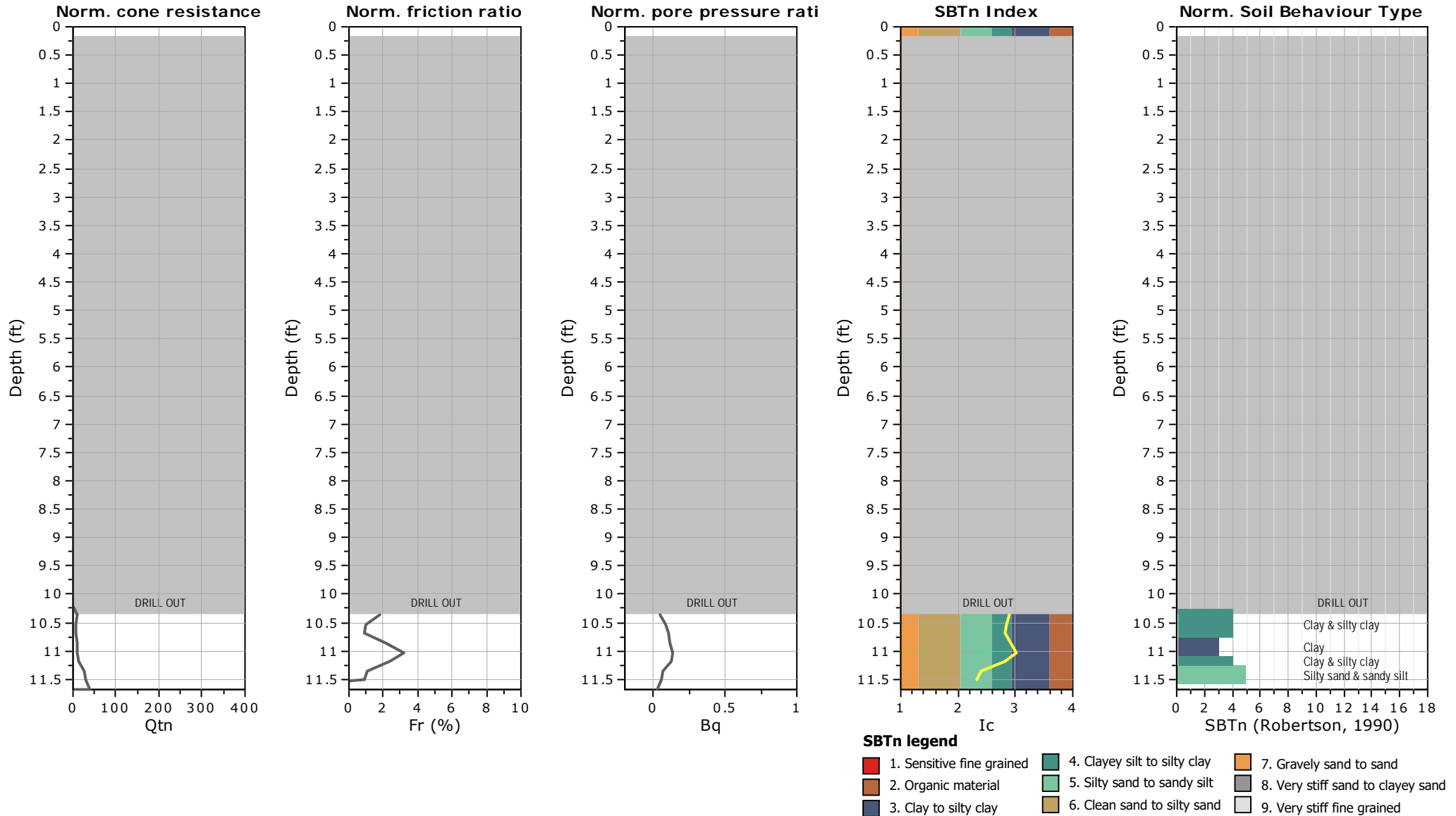


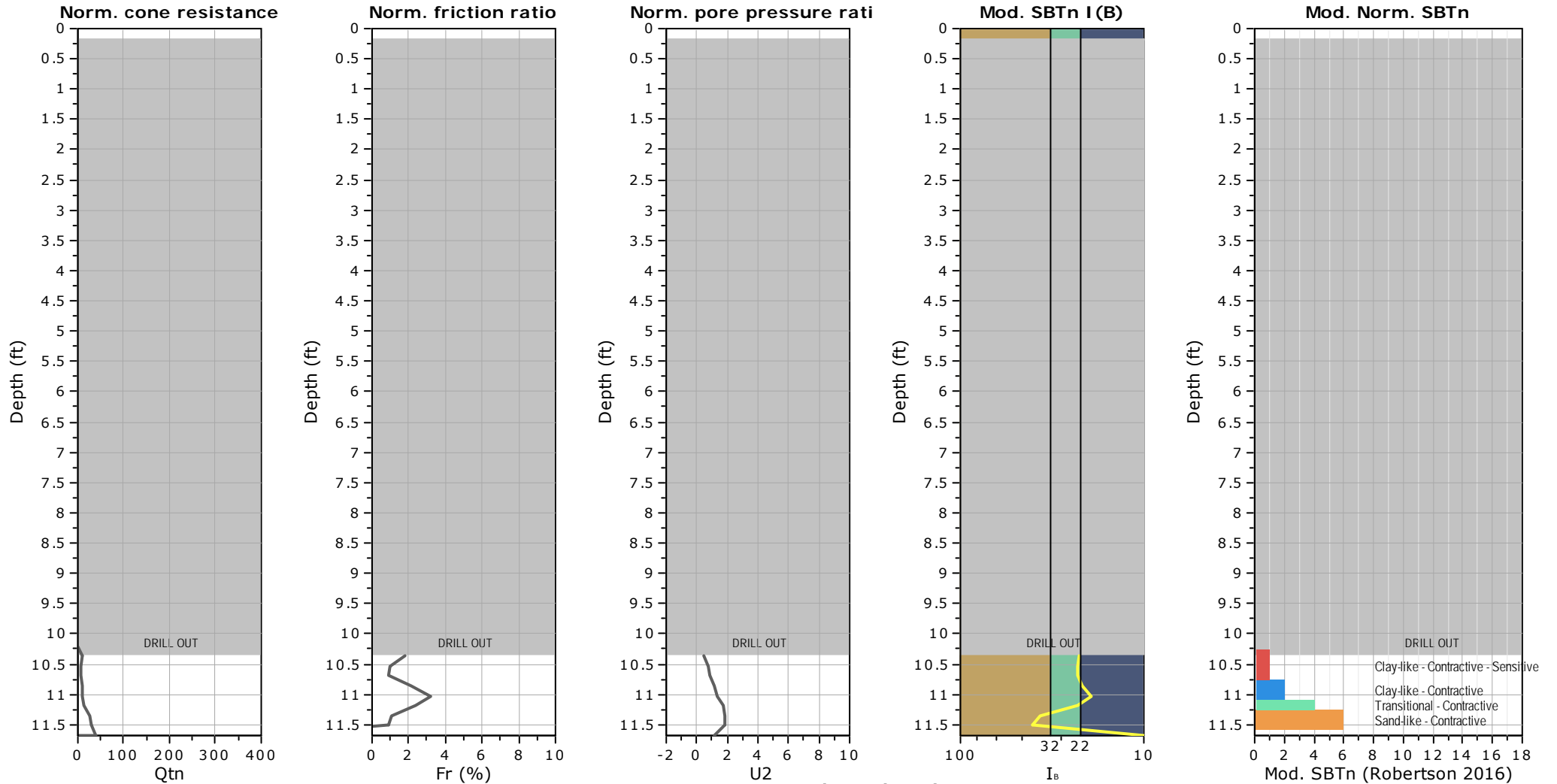
**Fuzzy classification legend**

- Highly probable clayey soil
- Highly probable mixture soil
- Highly probable sandy soil







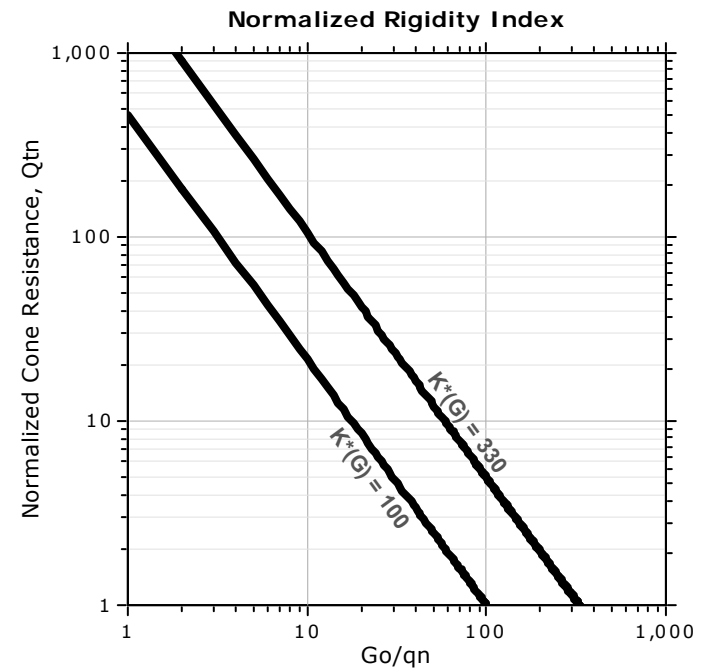
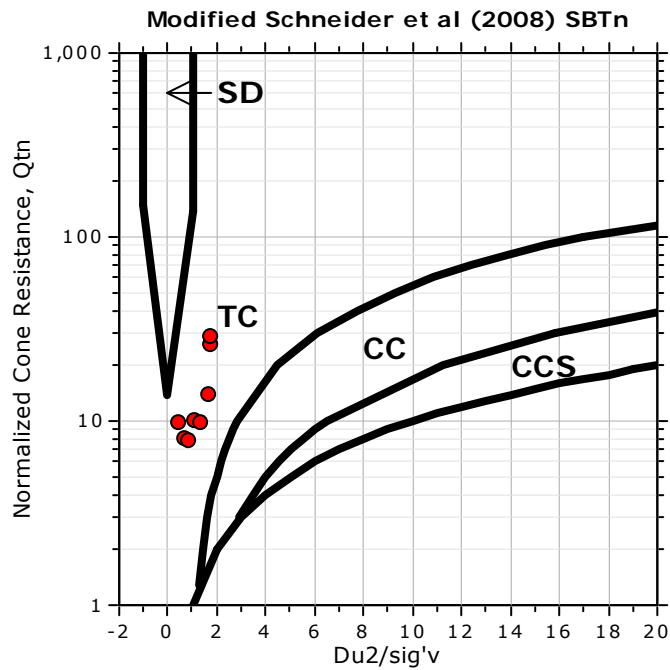
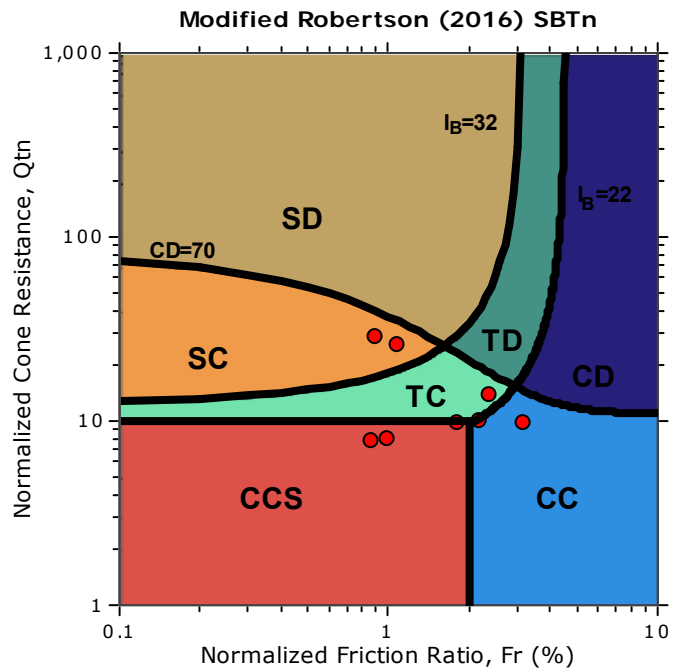


**Mod. SBTn legend**

- 1. CCS: ClayLike - Contractive, Sensitive
- 4. TC: Transitional - Contractive
- 2. CC: Clay-like - Contractive
- 5. TD: Transitional - Dilative
- 3. CD: Clay-Like: Dilative
- 6. SC: Sand-like - Contractive
- 7. SD: Sand-like - Dilative

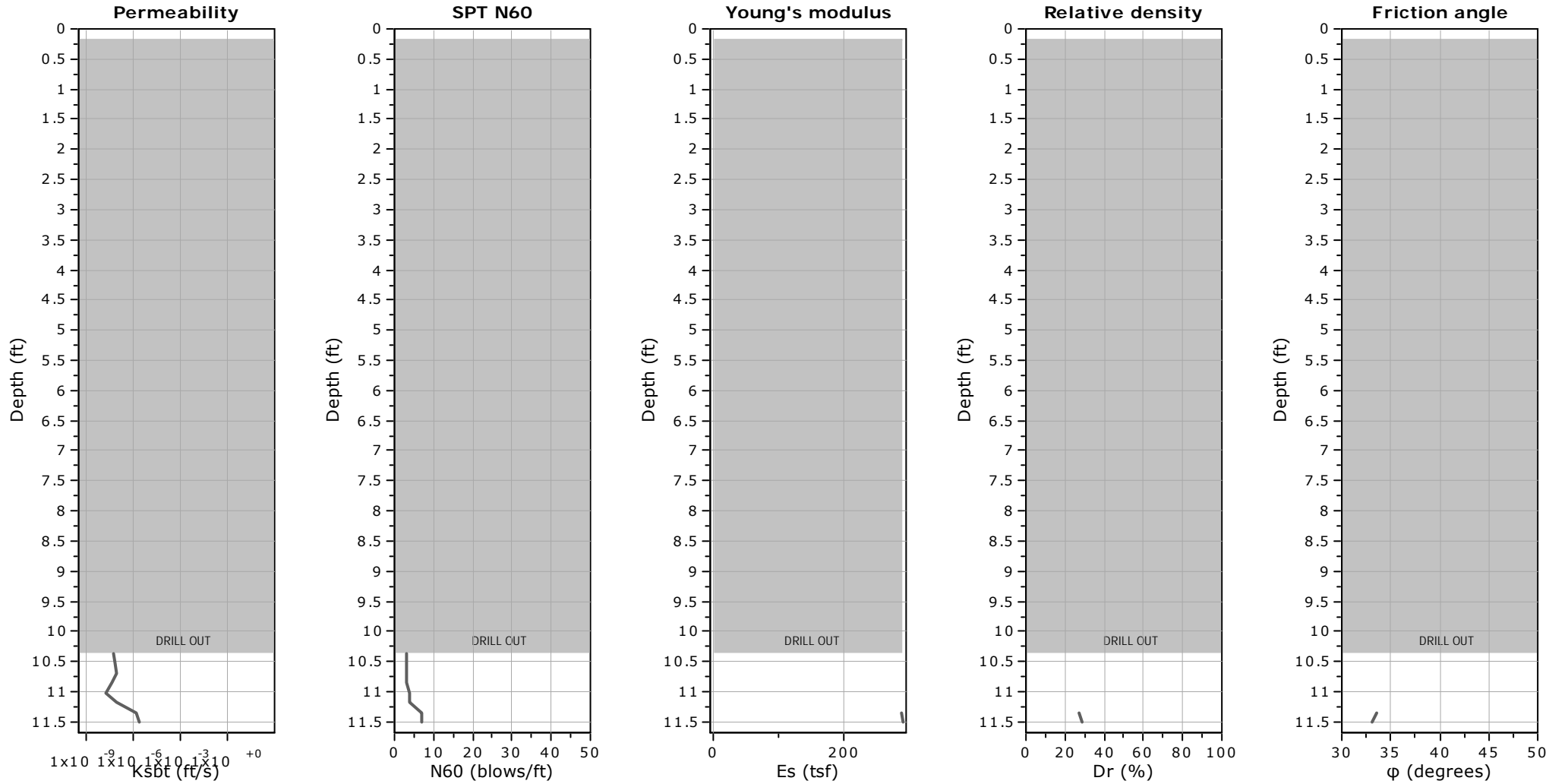


**Updated SBTn plots**



- CCS: Clay-like - Contractive - Sensitive
- CC: Clay-like - Contractive
- CD: Clay-like - Dilative
- TC: Transitional - Contractive
- TD: Transitional - Dilative
- SC: Sand-like - Contractive
- SD: Sand-like - Dilative

$K^*(G) > 330$ : Soils with significant microstructure (e.g. age/cementation)



**Calculation parameters**

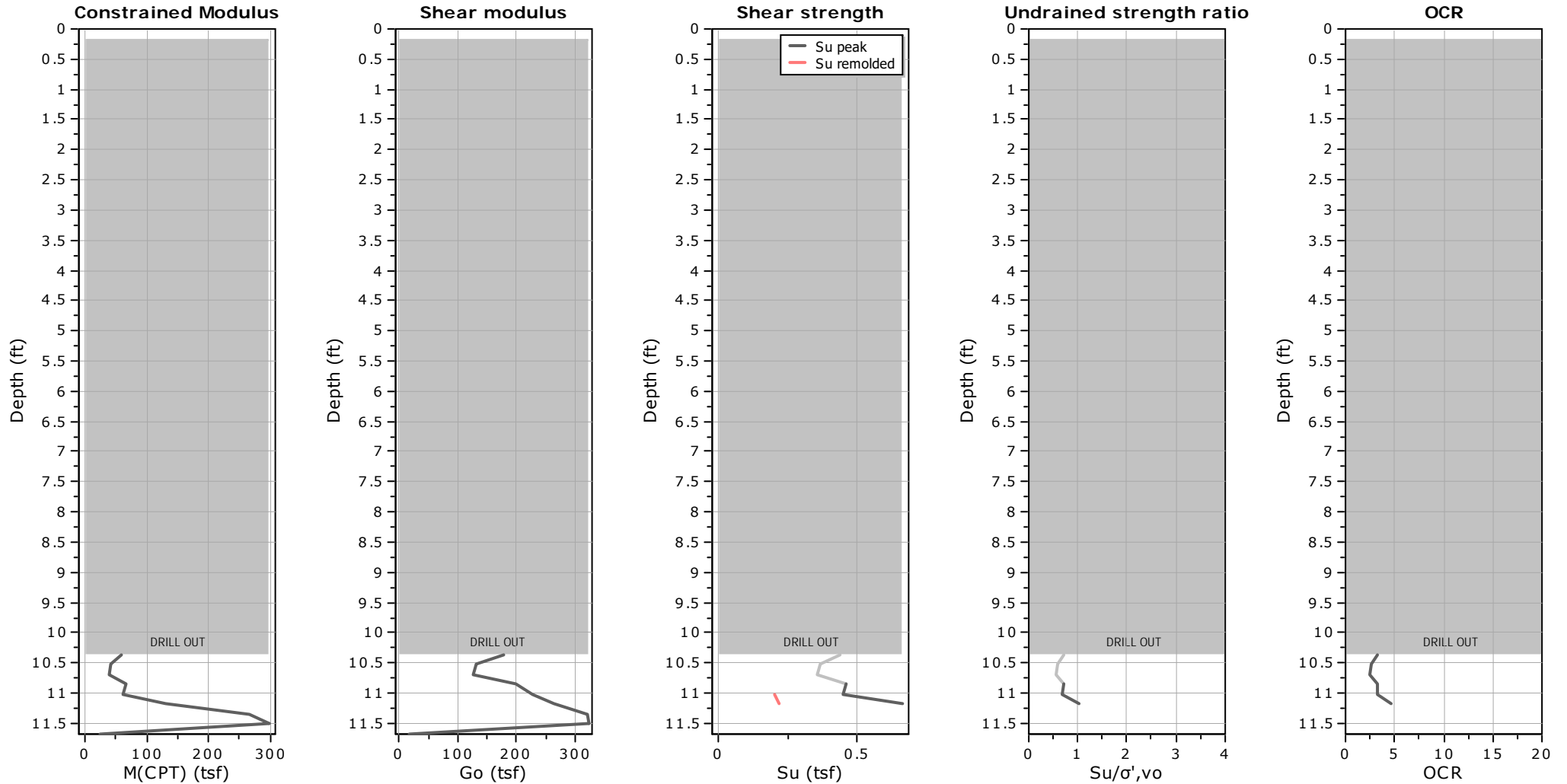
Permeability: Based on  $SBT_n$

SPT  $N_{60}$ : Based on  $I_c$  and  $q_t$

Young's modulus: Based on variable alpha using  $I_c$  (Robertson, 2009)

Relative density constant,  $C_{Dr}$ : 350.0

Phi: Based on Kulhawy & Mayne (1990)



**Calculation parameters**

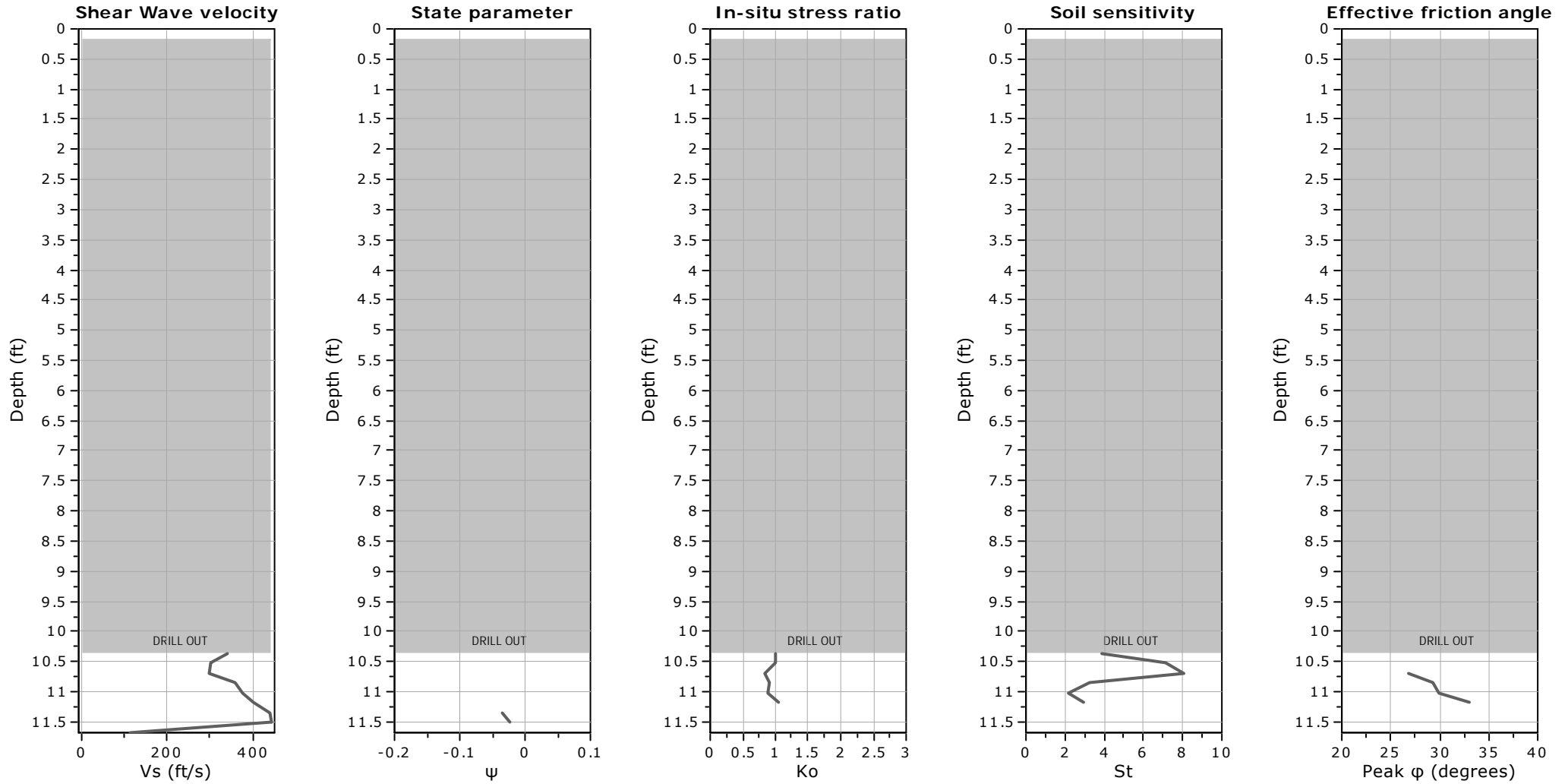
Constrained modulus: Based on variable  $\alpha$  using  $I_c$  and  $Q_{tn}$  (Robertson, 2009)

Go: Based on variable  $\alpha$  using  $I_c$  (Robertson, 2009)

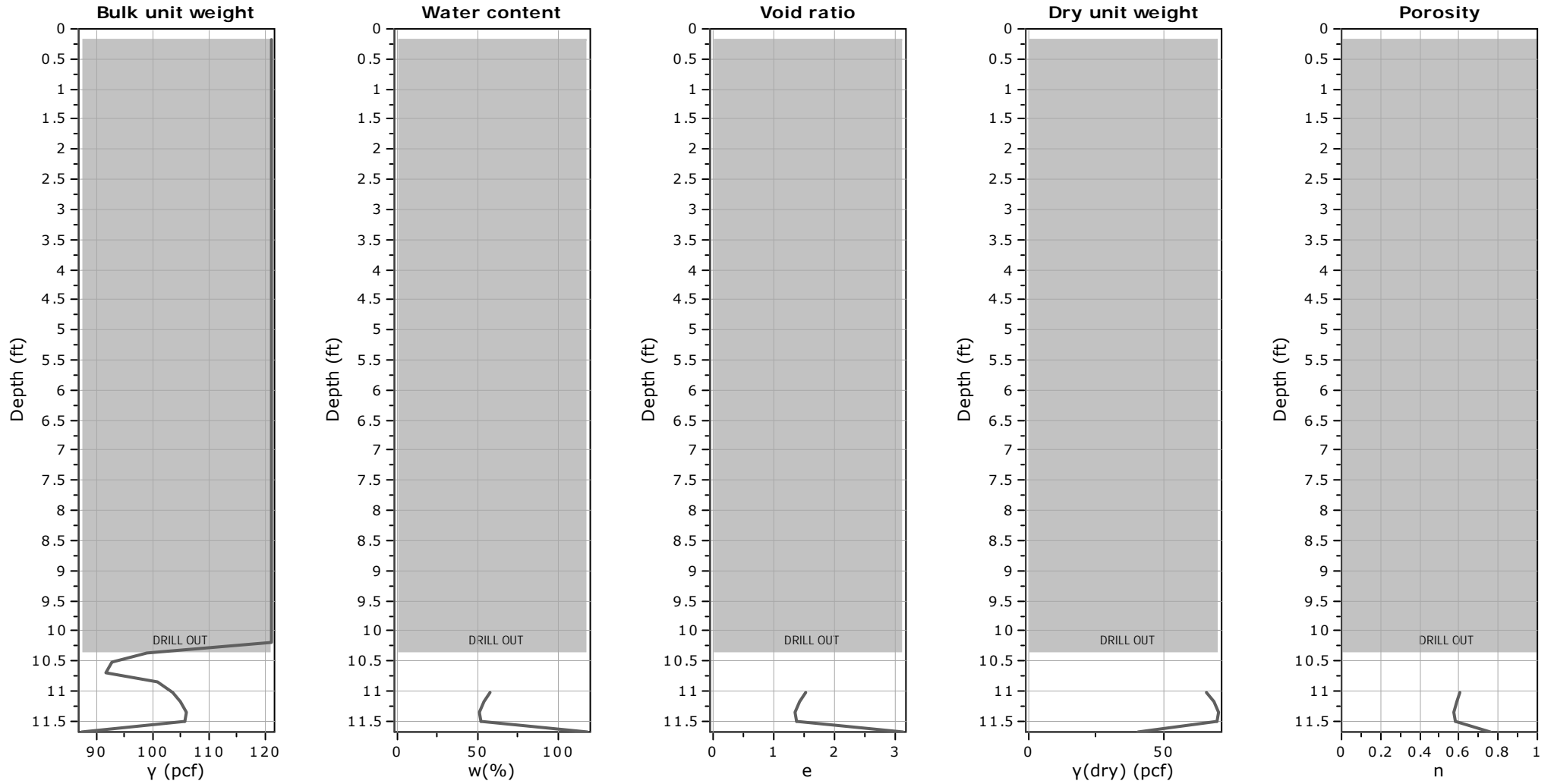
Undrained shear strength cone factor for clays,  $N_{kt}$ : 14

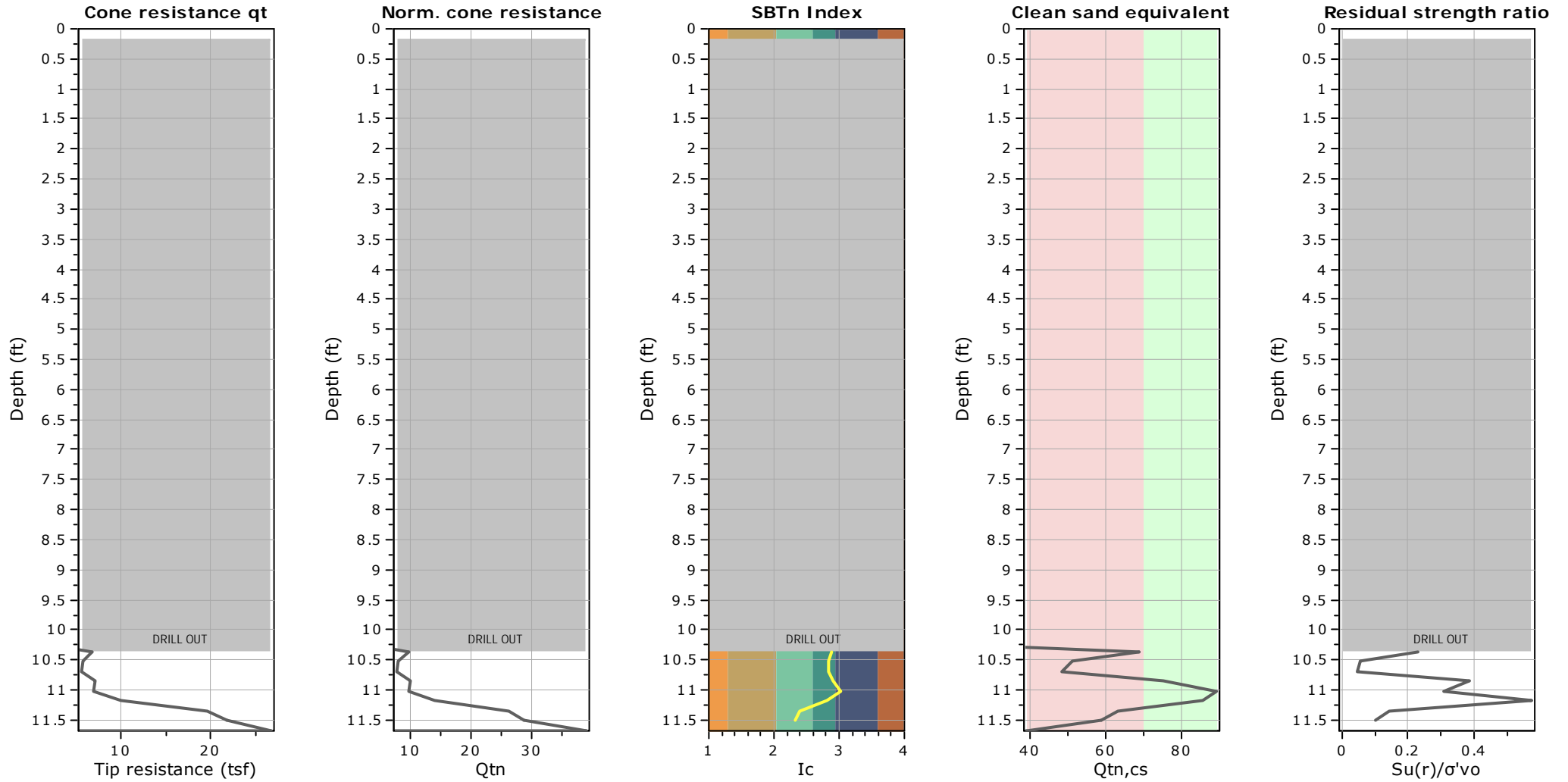
OCR factor for clays,  $N_{kt}$ : 0.33

● Flat Dilatometer Test data

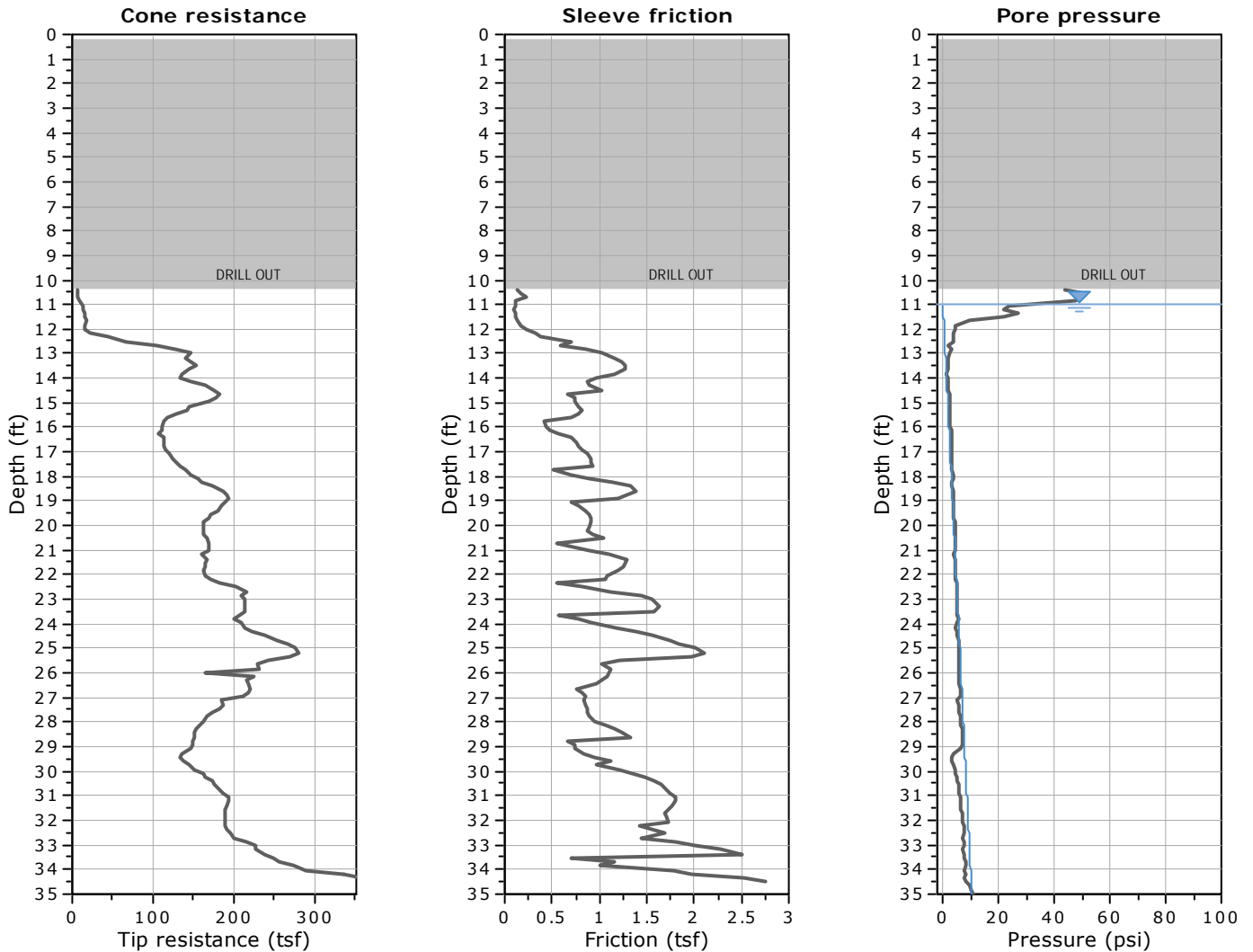


**Calculation parameters**  
Soil Sensitivity factor,  $N_s$ : 7.00









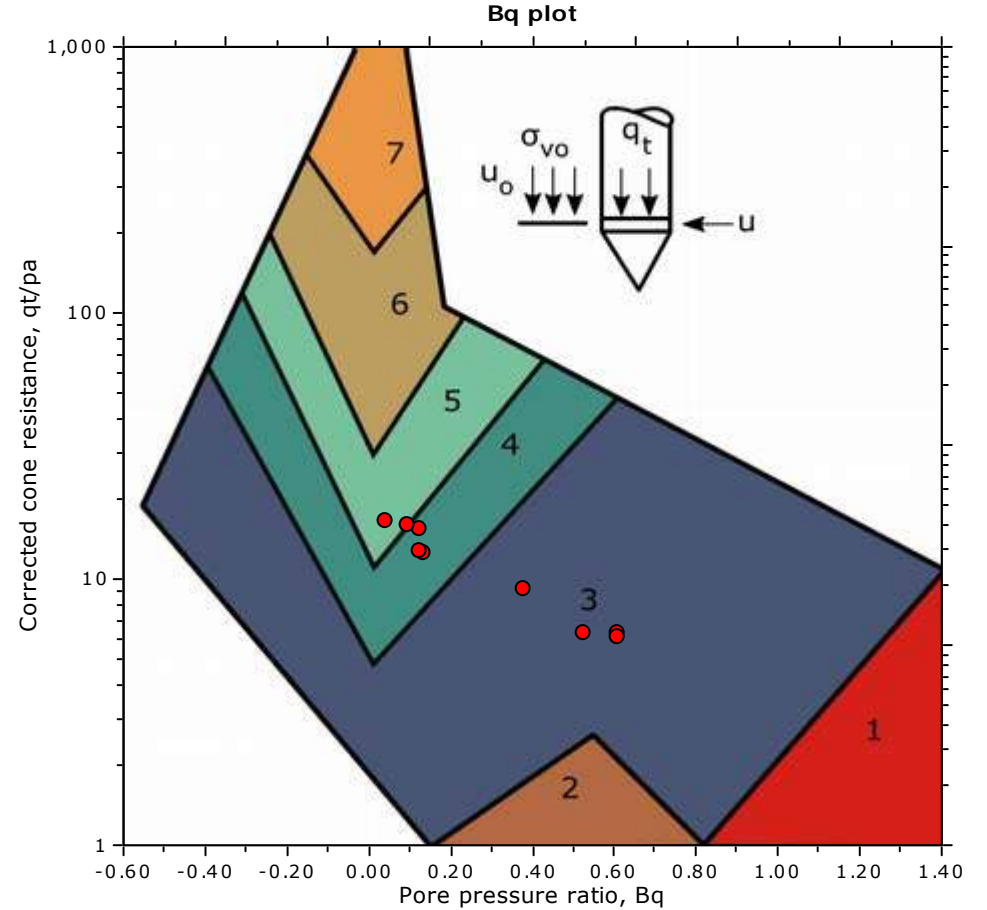
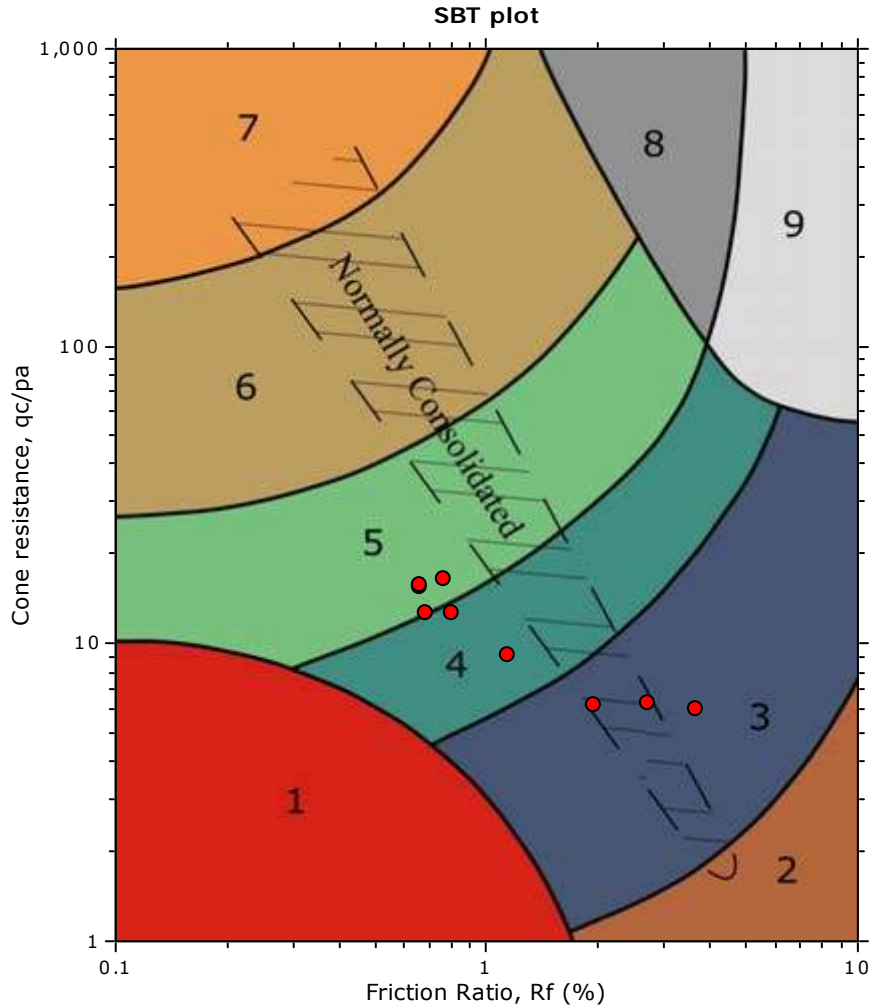
The plot below presents the cross correlation coefficient between the raw qc and fs values (as measured on the field). X axes presents the lag distance (one lag is the distance between two successive CPT measurements).

Cross correlation between qc & fs





**SBT - Bq plots**

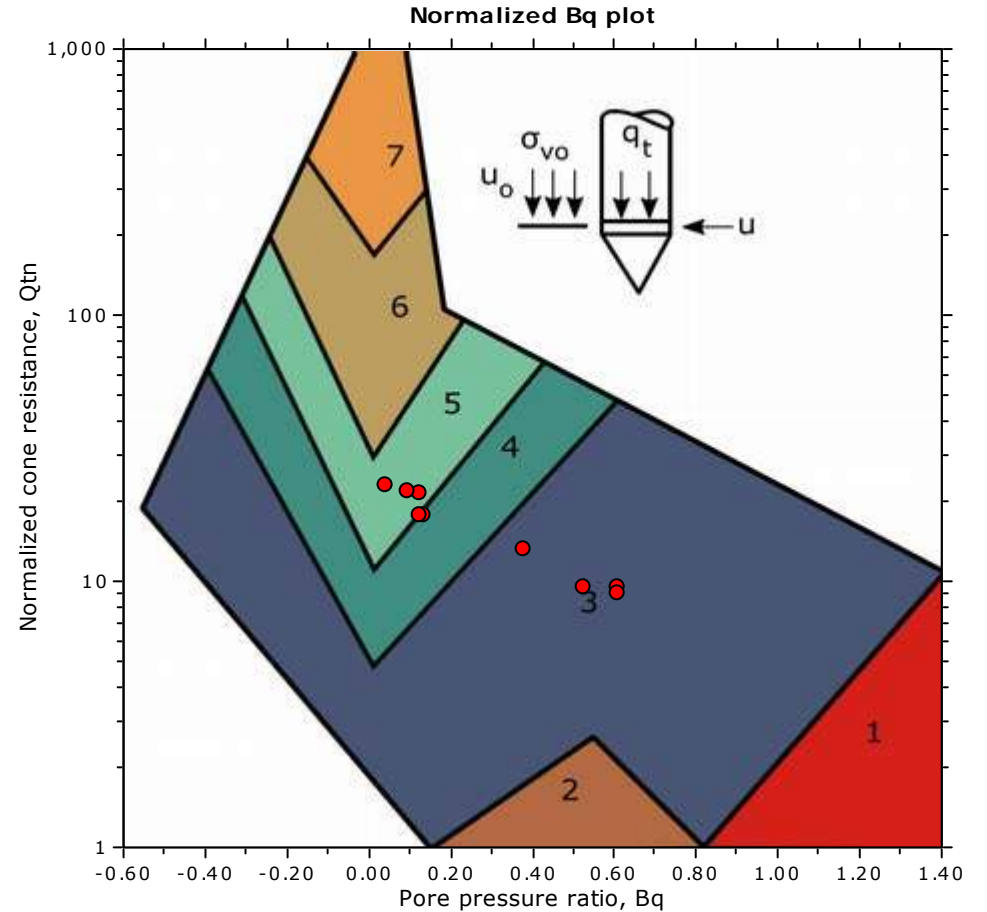
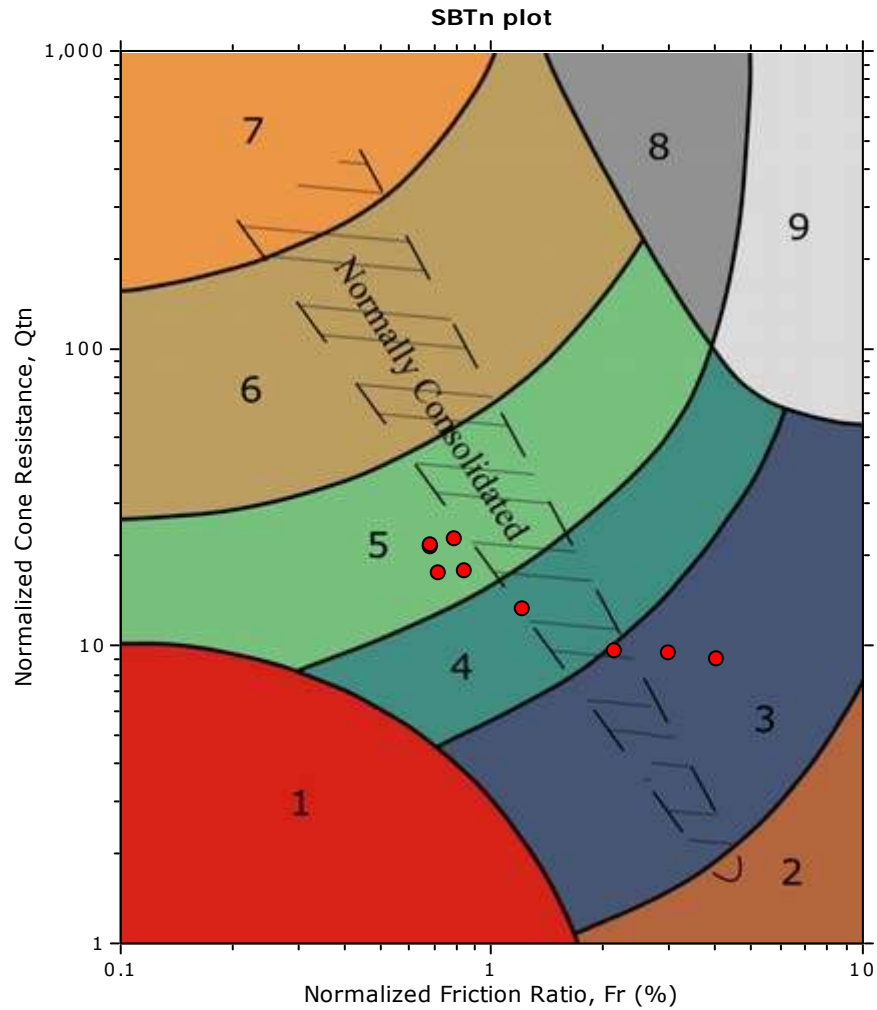


**SBT legend**

- |                           |                              |                                   |
|---------------------------|------------------------------|-----------------------------------|
| 1. Sensitive fine grained | 4. Clayey silt to silty clay | 7. Gravelly sand to sand          |
| 2. Organic material       | 5. Silty sand to sandy silt  | 8. Very stiff sand to clayey sand |
| 3. Clay to silty clay     | 6. Clean sand to silty sand  | 9. Very stiff fine grained        |



**SBT - Bq plots (normalized)**

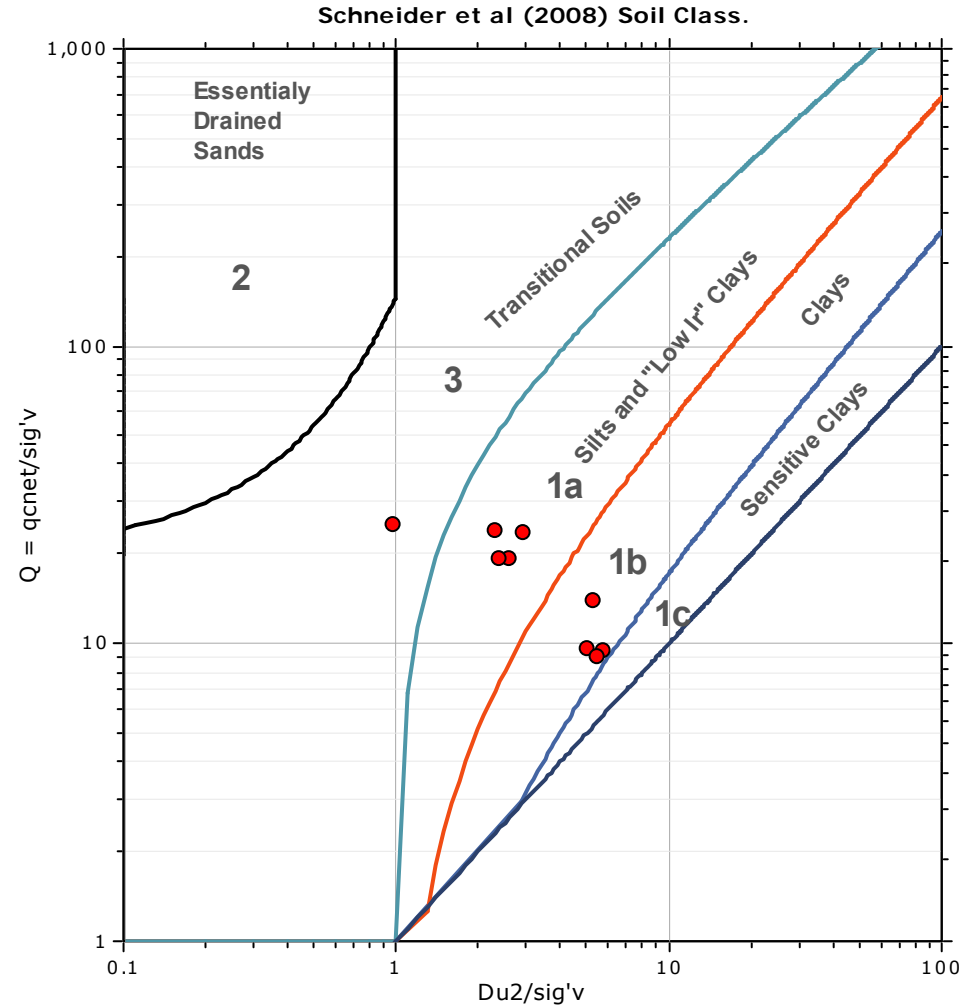
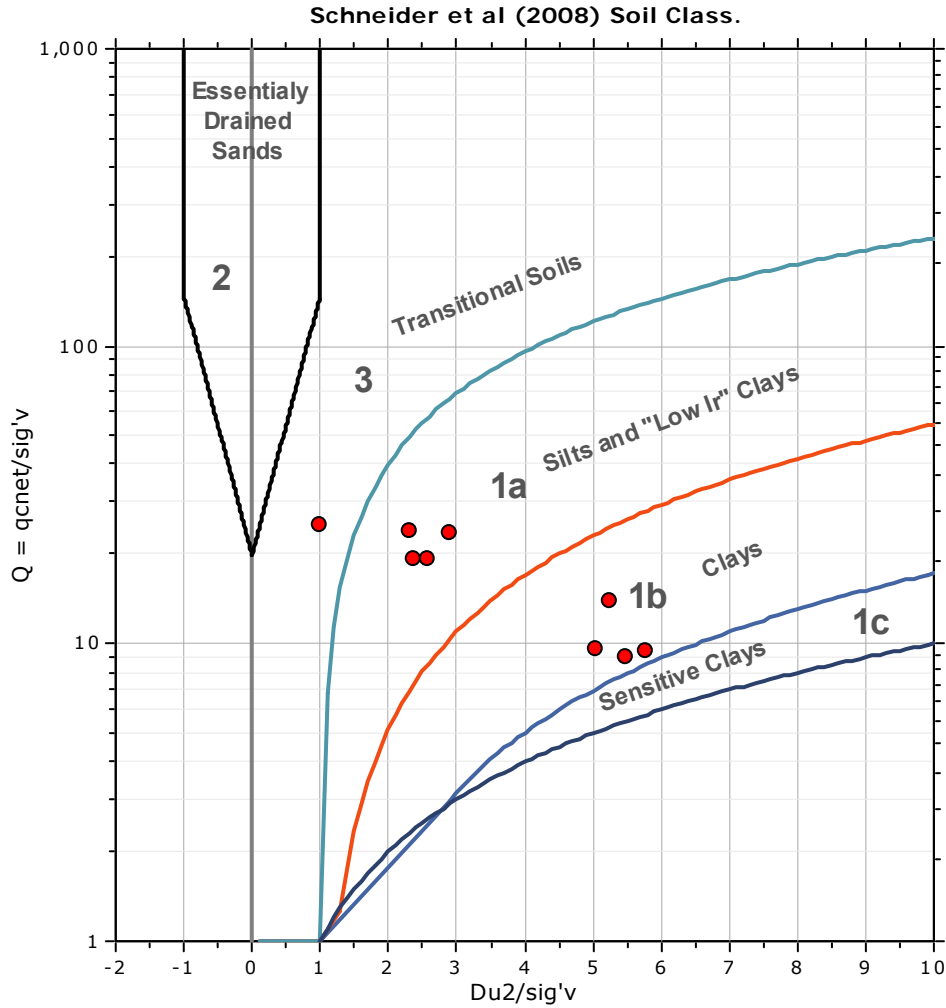


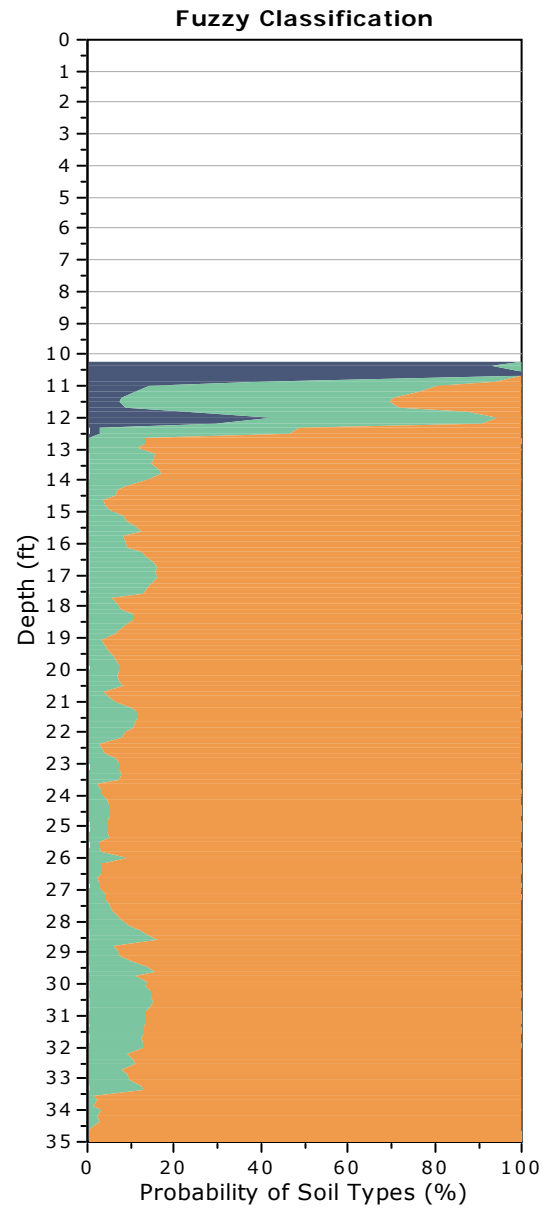
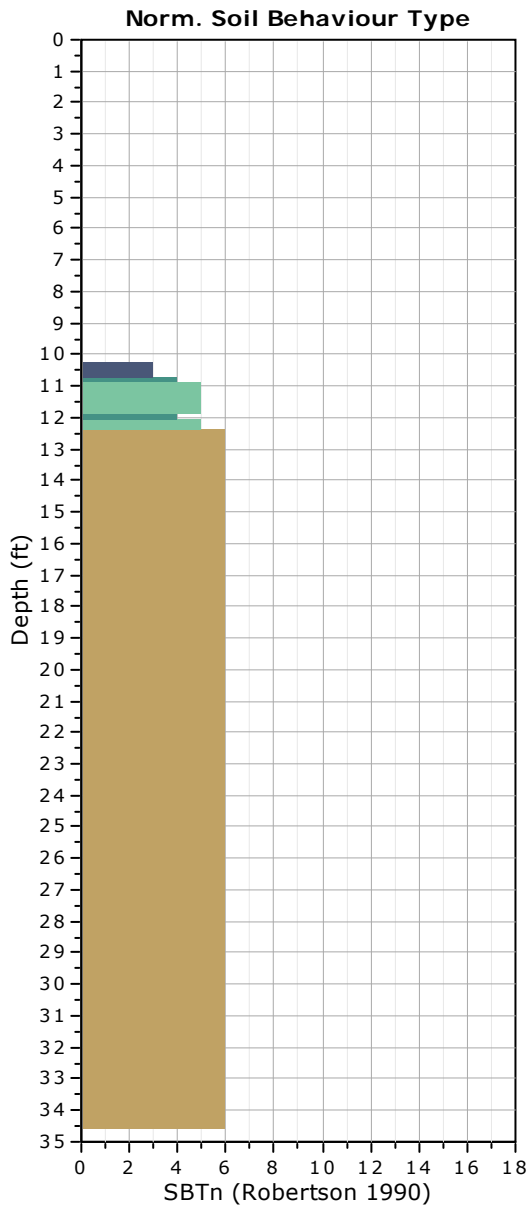
**SBTn legend**

- |                                                              |                                                                       |                                                                       |
|--------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| <span style="color: red;">■</span> 1. Sensitive fine grained | <span style="color: teal;">■</span> 4. Clayey silt to silty clay      | <span style="color: orange;">■</span> 7. Gravelly sand to sand        |
| <span style="color: brown;">■</span> 2. Organic material     | <span style="color: lightgreen;">■</span> 5. Silty sand to sandy silt | <span style="color: grey;">■</span> 8. Very stiff sand to clayey sand |
| <span style="color: blue;">■</span> 3. Clay to silty clay    | <span style="color: tan;">■</span> 6. Clean sand to silty sand        | <span style="color: lightgrey;">■</span> 9. Very stiff fine grained   |



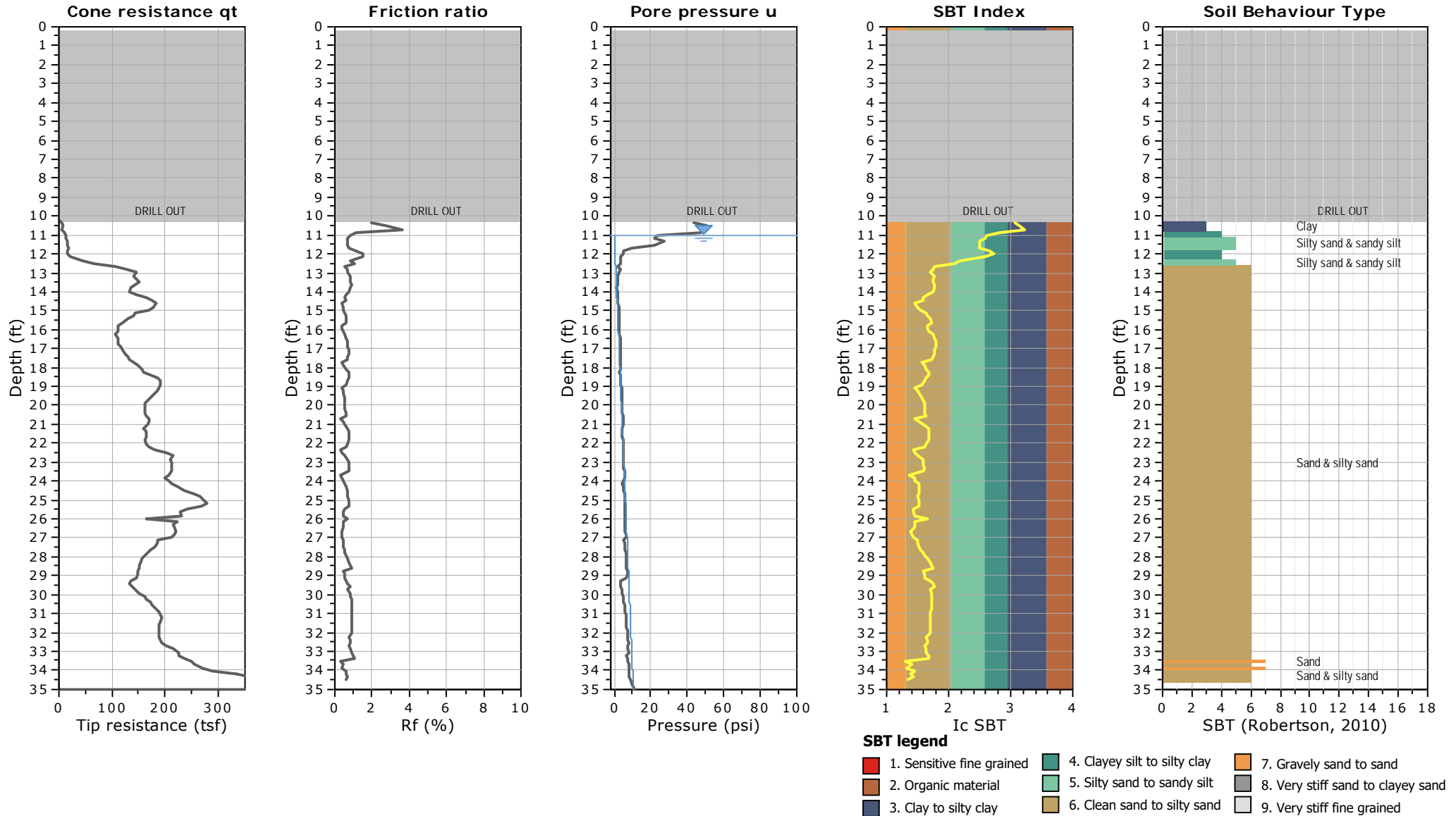
### Bq plots (Schneider)

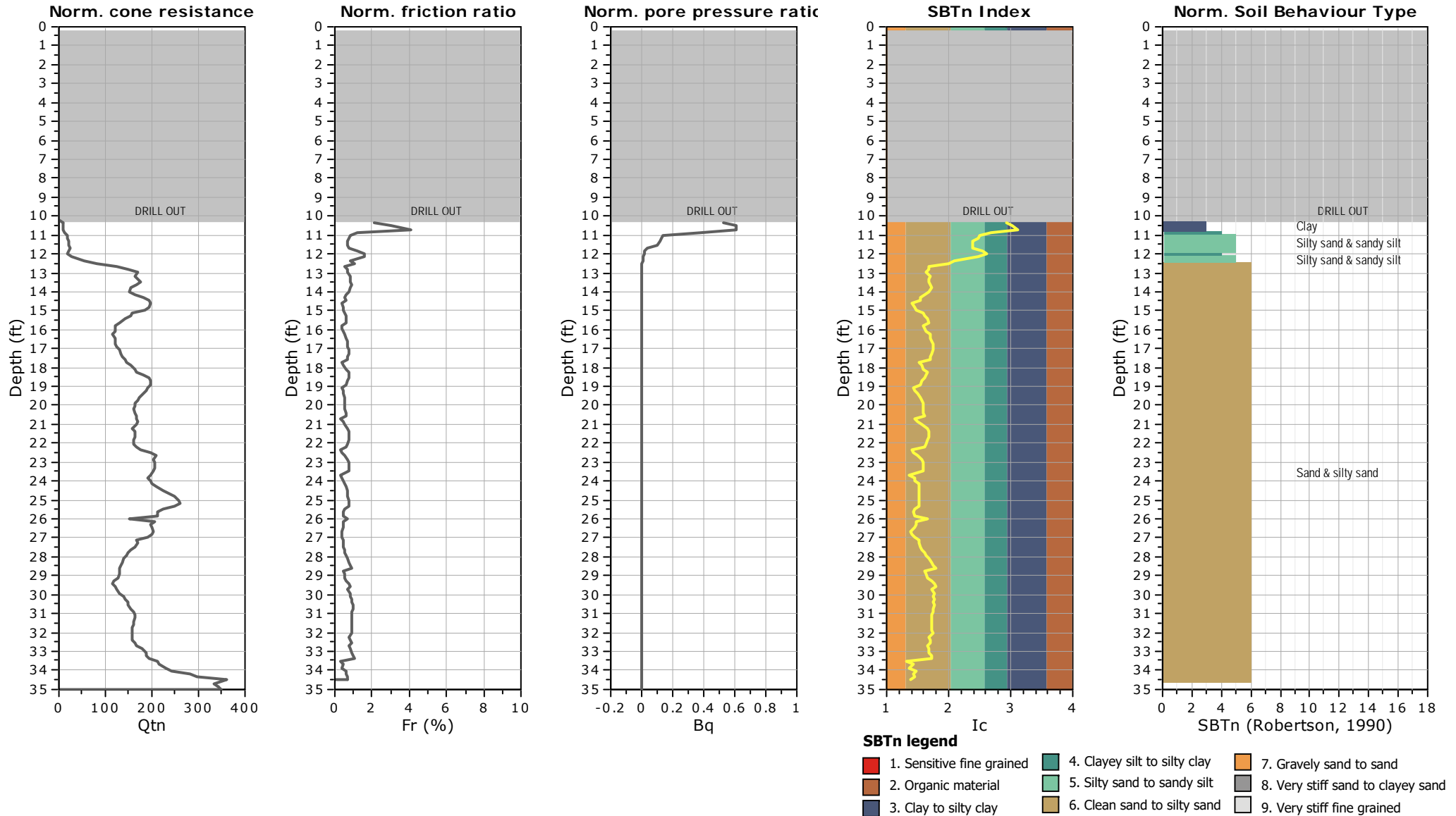




**Fuzzy classification legend**

- Highly probable clayey soil
- Highly probable mixture soil
- Highly probable sandy soil





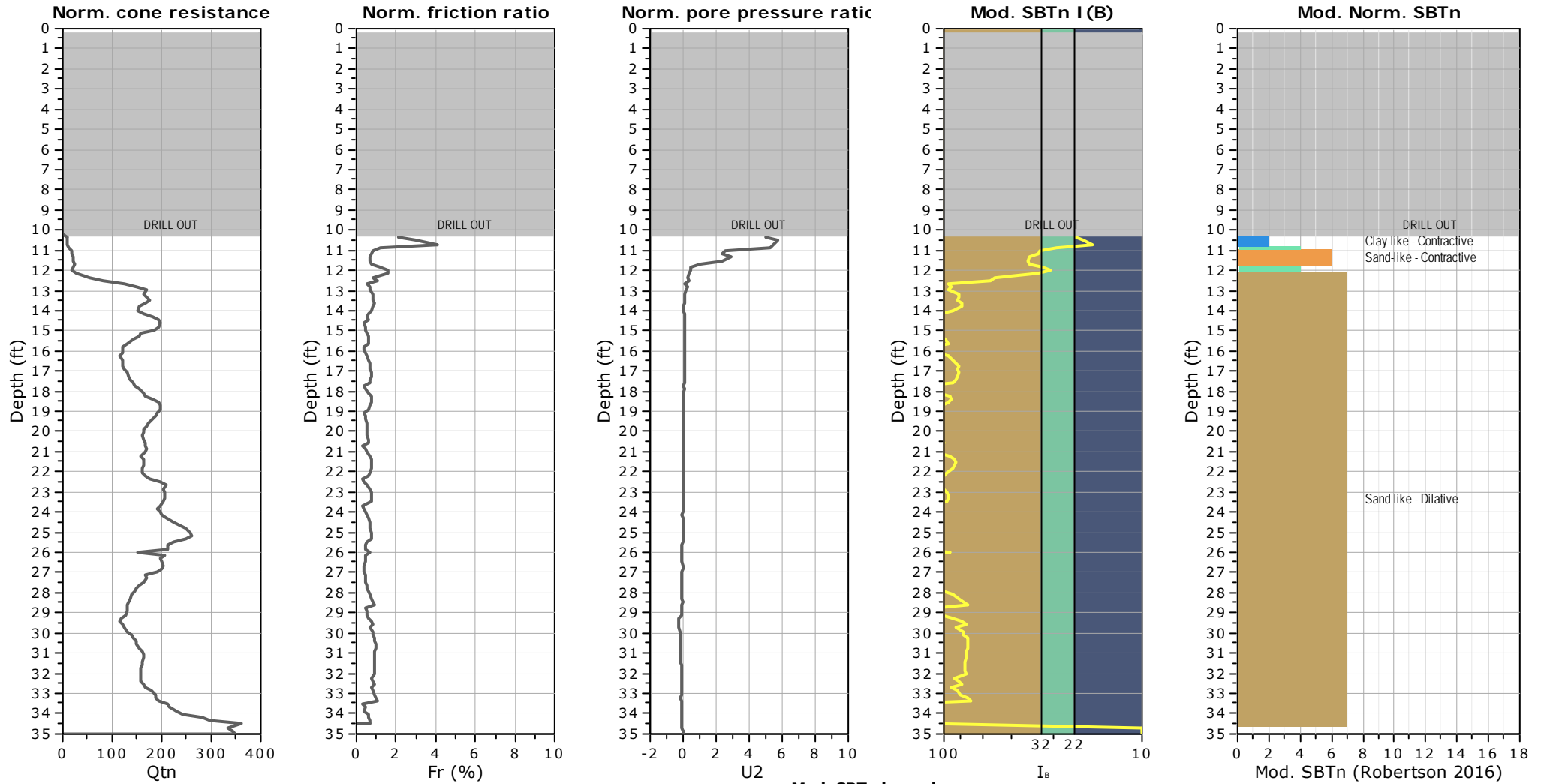


**Project: Langan**

**Location: 145 Wolcott St, Brooklyn NY**

**CPT-7a**

Total depth: 35.01 ft

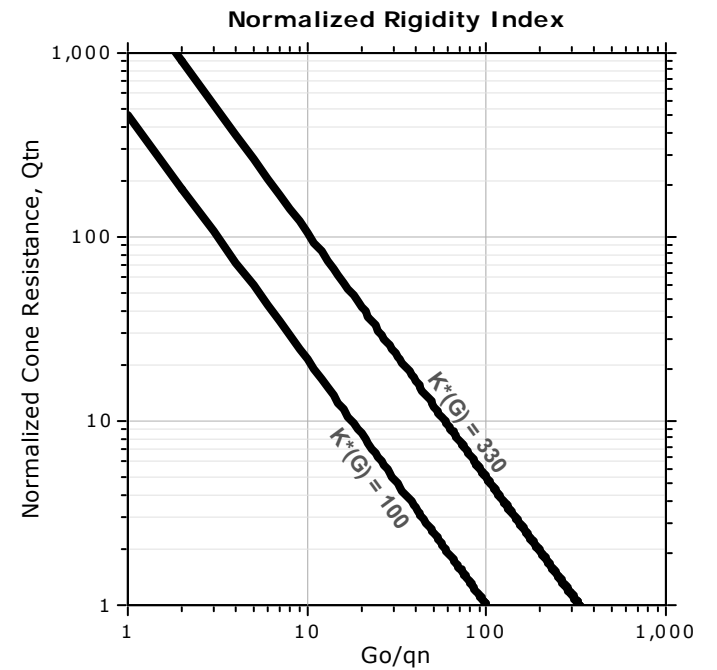
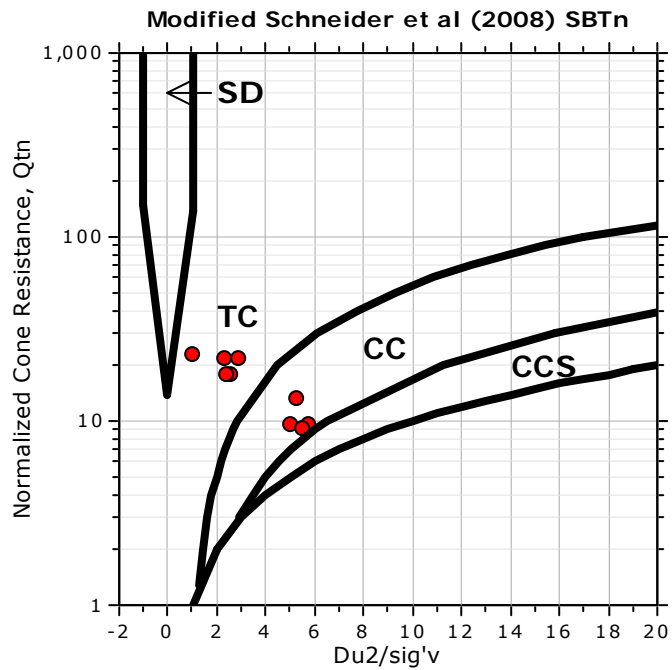
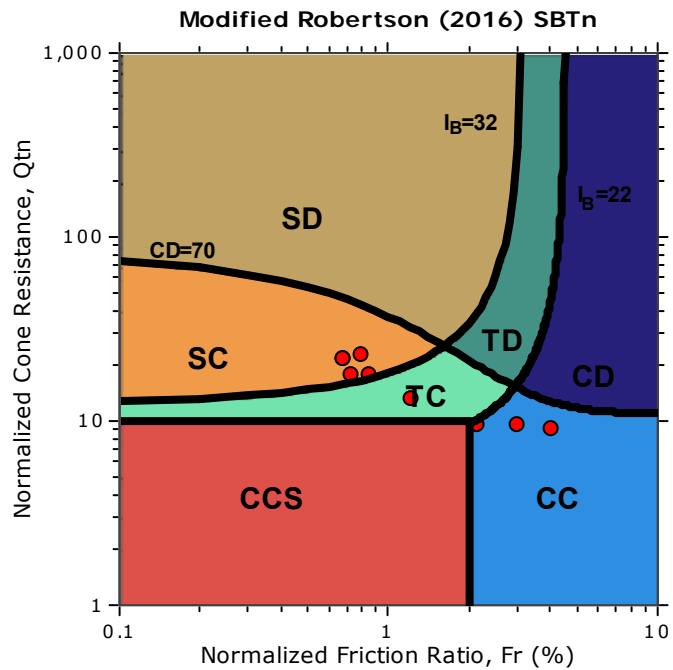


- Mod. SBTn legend**
- 1. CCS: ClayLike - Contractive, Sensitive
  - 2. CC: Clay-like - Contractive
  - 3. CD: Clay-Like: Dilative
  - 4. TC: Transitional - Contractive
  - 5. TD: Transitional - Dilative
  - 6. SC: Sand-like - Contractive
  - 7. SD: Sand-like - Dilative



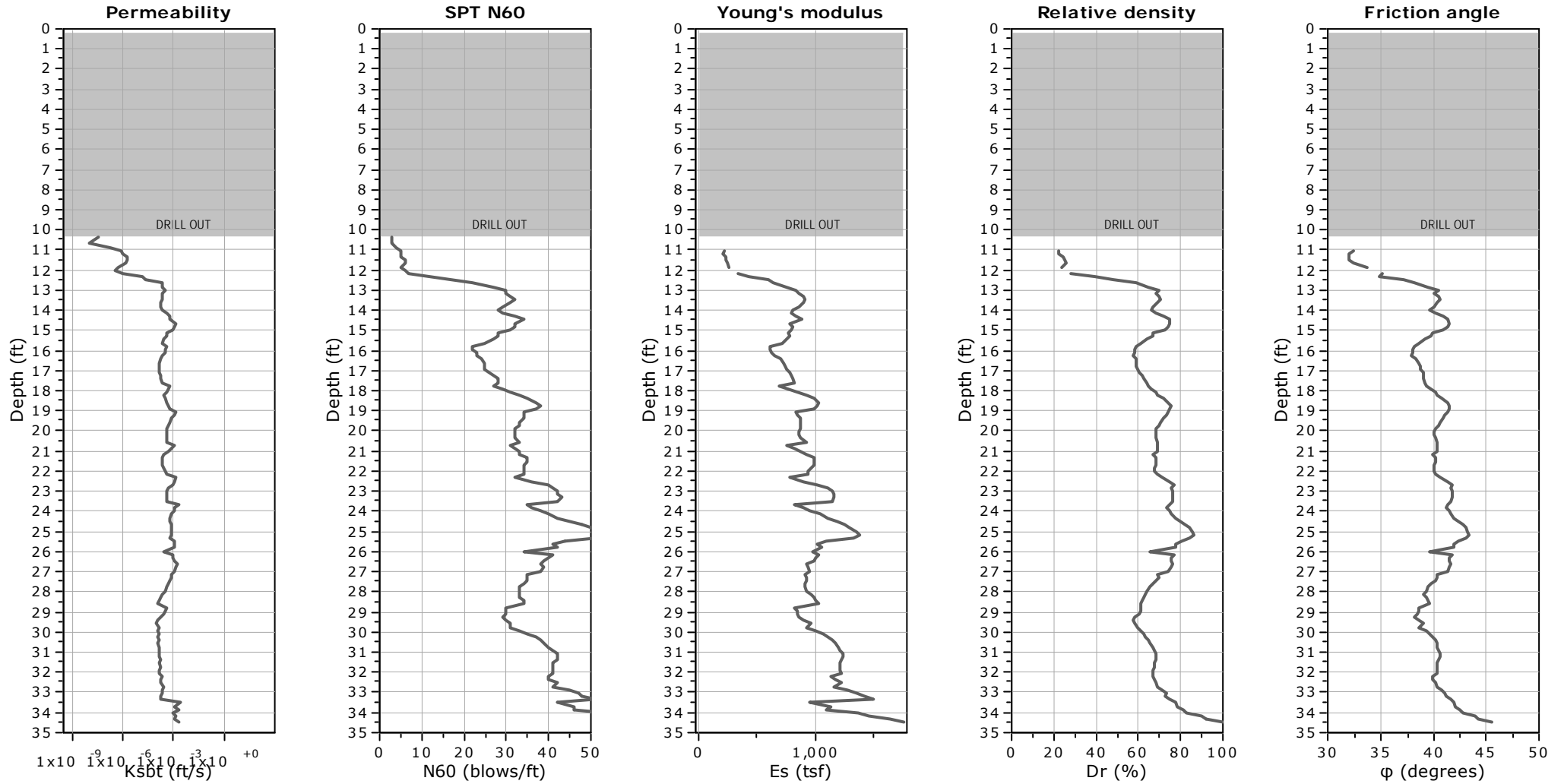


**Updated SBTn plots**



- CCS: Clay-like - Contractive - Sensitive
- CC: Clay-like - Contractive
- CD: Clay-like - Dilative
- TC: Transitional - Contractive
- TD: Transitional - Dilative
- SC: Sand-like - Contractive
- SD: Sand-like - Dilative

$K^*(G) > 330$ : Soils with significant microstructure (e.g. age/cementation)



**Calculation parameters**

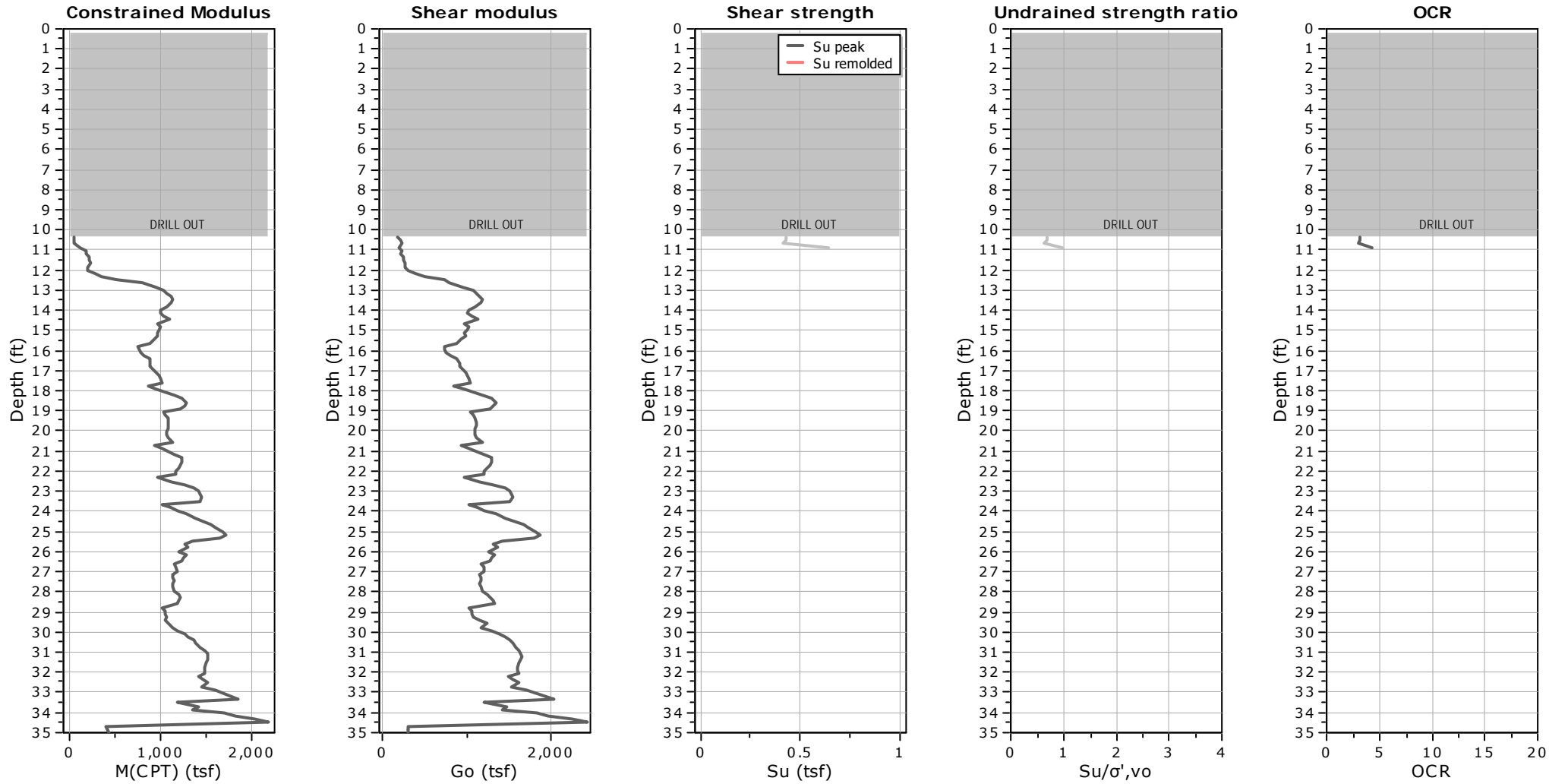
Permeability: Based on SBT<sub>n</sub>

SPT N<sub>60</sub>: Based on I<sub>c</sub> and q<sub>t</sub>

Young's modulus: Based on variable alpha using I<sub>c</sub> (Robertson, 2009)

Relative density constant, C<sub>Dr</sub>: 350.0

Phi: Based on Kulhawy & Mayne (1990)



**Calculation parameters**

Constrained modulus: Based on variable  $\alpha$  using  $I_c$  and  $Q_{tn}$  (Robertson, 2009)

Go: Based on variable  $\alpha$  using  $I_c$  (Robertson, 2009)

Undrained shear strength cone factor for clays,  $N_{kt}$ : 14

OCR factor for clays,  $N_{kt}$ : 0.33

● Flat Dilatometer Test data

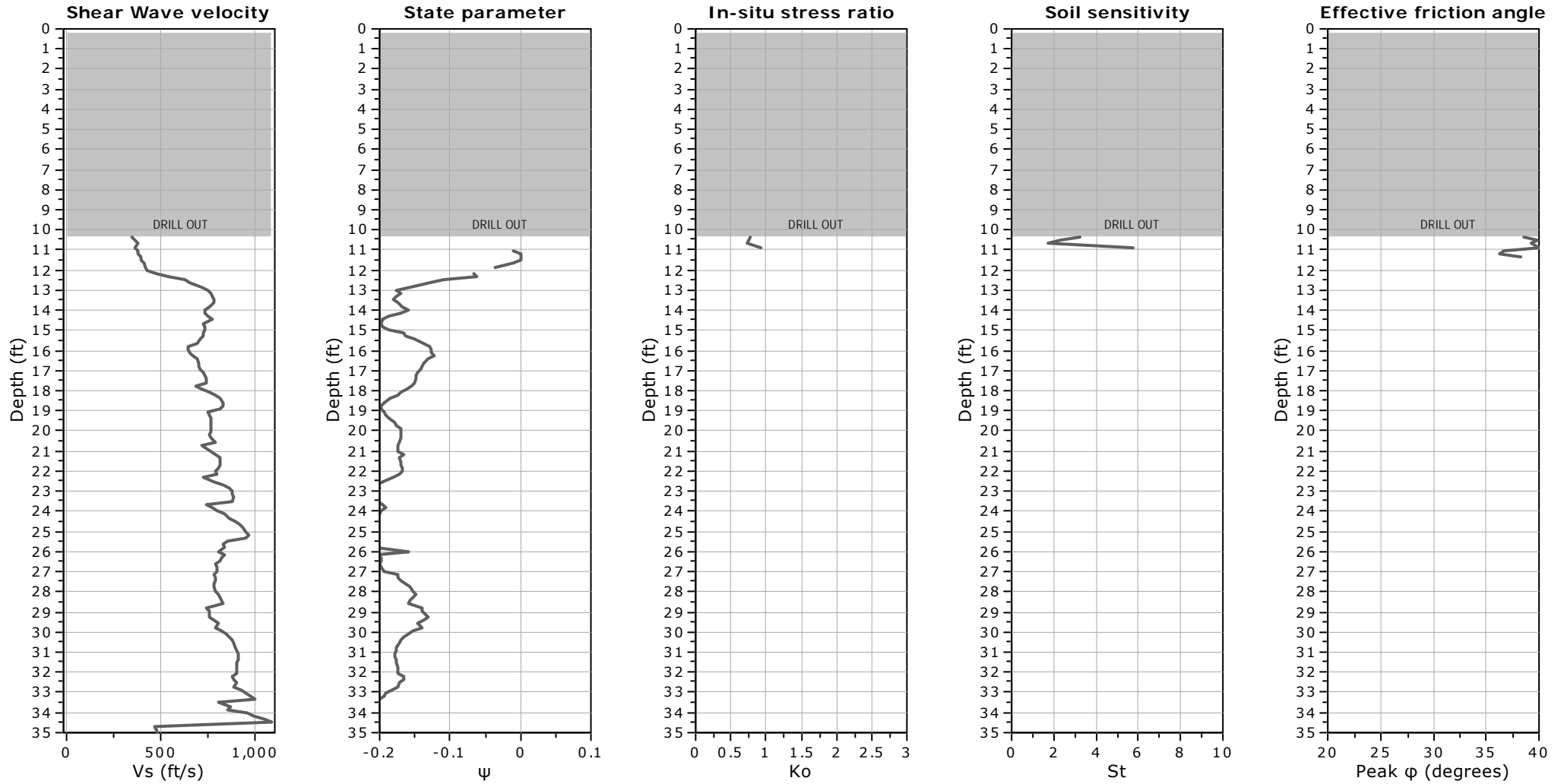


Project: Langan

Location: 145 Wolcott St, Brooklyn NY

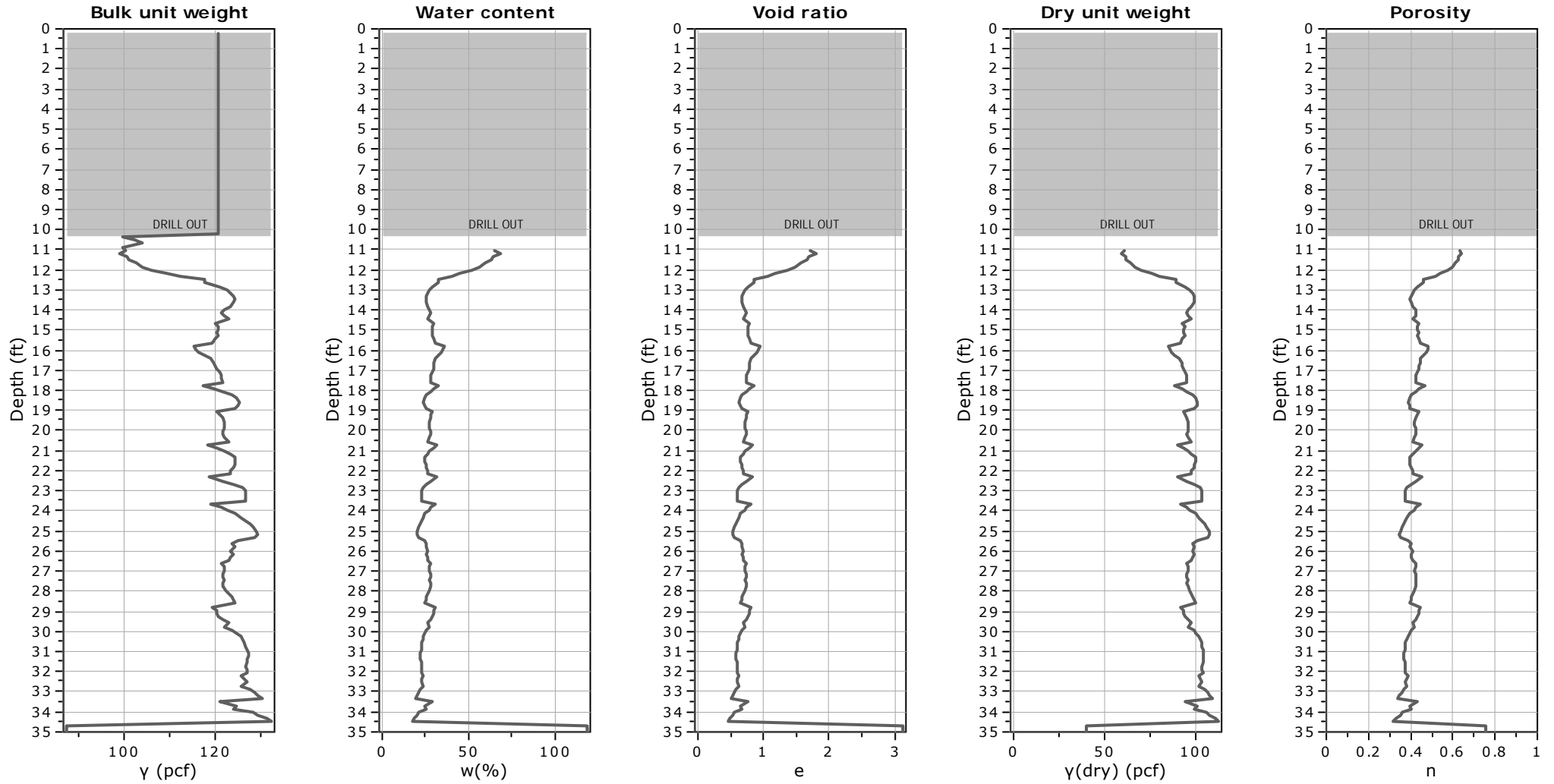
CPT-7a

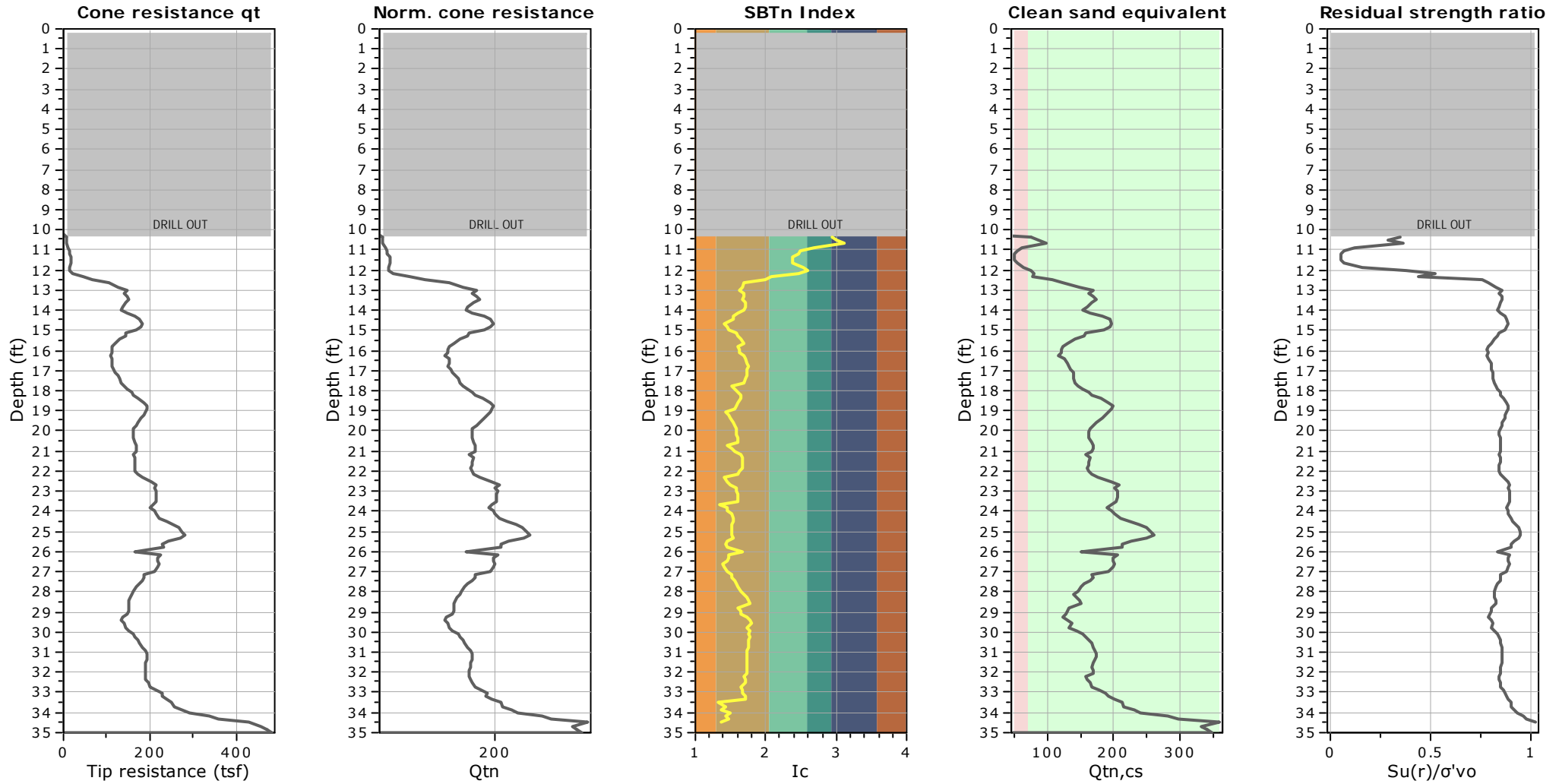
Total depth: 35.01 ft



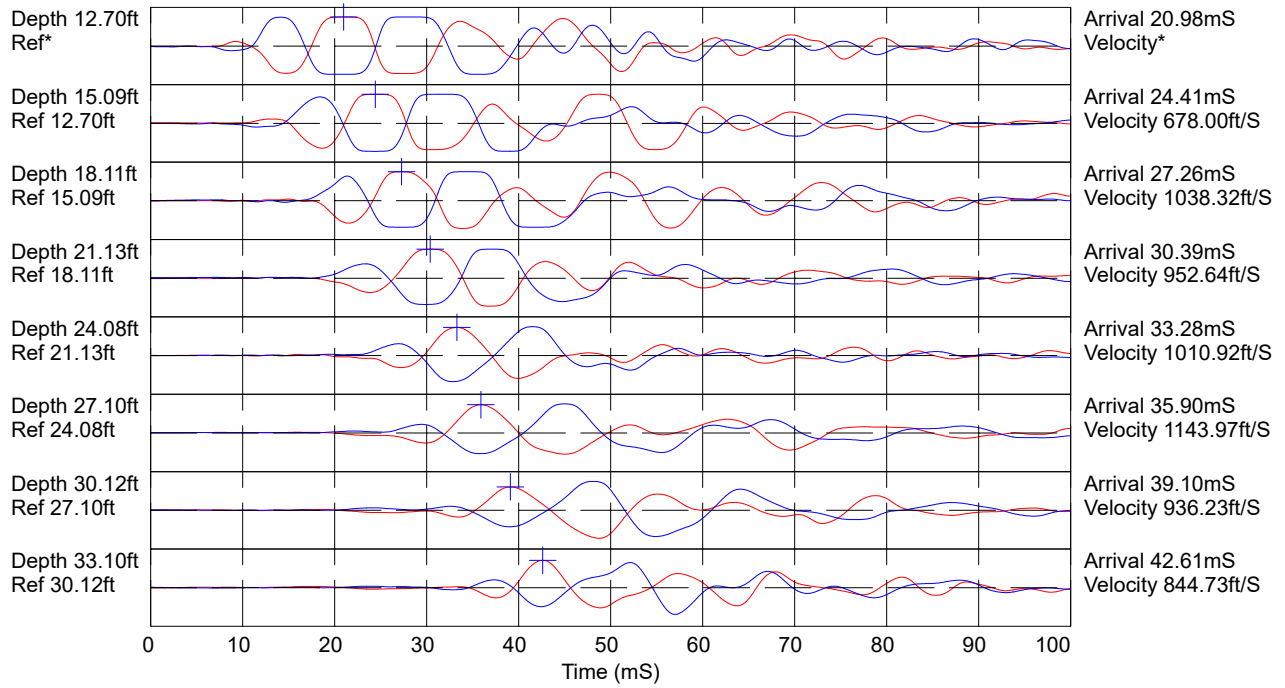
**Calculation parameters**

Soil Sensitivity factor,  $N_s$ : 7.00





### SEISMIC TEST



Hammer to Rod String Distance (ft): 3.28  
\* = Not Determined

COMMENT:

Presented below is a list of formulas used for the estimation of various soil properties. The formulas are presented in SI unit system and assume that all components are expressed in the same units.

**:: Unit Weight,  $g$  (kN/m<sup>3</sup>) ::**

$$g = g_w \cdot \left( 0.27 \cdot \log(R_f) + 0.36 \cdot \log\left(\frac{q_t}{p_a}\right) + 1.236 \right)$$

where  $g_w$  = water unit weight

**:: Permeability,  $k$  (m/s) ::**

$$I_c < 3.27 \text{ and } I_c > 1.00 \text{ then } k = 10^{0.952-3.04 \cdot I_c}$$

$$I_c \leq 4.00 \text{ and } I_c > 3.27 \text{ then } k = 10^{-4.52-1.37 \cdot I_c}$$

**:: N<sub>SPT</sub> (blows per 30 cm) ::**

$$N_{60} = \left(\frac{q_c}{p_a}\right) \cdot \frac{1}{10^{1.1268-0.2817 \cdot I_c}}$$

$$N_{1(60)} = Q_{tn} \cdot \frac{1}{10^{1.1268-0.2817 \cdot I_c}}$$

**:: Young's Modulus,  $E_s$  (MPa) ::**

$$(q_t - \sigma_v) \cdot 0.015 \cdot 10^{0.55 \cdot I_c + 1.68}$$

(applicable only to  $I_c < I_{c\_cutoff}$ )

**:: Relative Density,  $D_r$  (%) ::**

$$100 \cdot \sqrt{\frac{Q_{tn}}{k_{DR}}} \quad \text{(applicable only to SBT}_n\text{: 5, 6, 7 and 8 or } I_c < I_{c\_cutoff}\text{)}$$

**:: State Parameter,  $\psi$  ::**

$$\psi = 0.56 - 0.33 \cdot \log(Q_{tn,cs})$$

**:: Drained Friction Angle,  $\phi$  (°) ::**

$$\phi = \phi'_{cv} + 15.94 \cdot \log(Q_{tn,cs}) - 26.88$$

(applicable only to SBT<sub>n</sub>: 5, 6, 7 and 8 or  $I_c < I_{c\_cutoff}$ )

**:: 1-D constrained modulus,  $M$  (MPa) ::**

If  $I_c > 2.20$

$\alpha = 14$  for  $Q_{tn} > 14$

$\alpha = Q_{tn}$  for  $Q_{tn} \leq 14$

$M_{CPT} = \alpha \cdot (q_t - \sigma_v)$

If  $I_c \geq 2.20$

$$M_{CPT} = 0.03 \cdot (q_t - \sigma_v) \cdot 10^{0.55 \cdot I_c + 1.68}$$

**:: Small strain shear Modulus,  $G_0$  (MPa) ::**

$$G_0 = (q_t - \sigma_v) \cdot 0.0188 \cdot 10^{0.55 \cdot I_c + 1.68}$$

**:: Shear Wave Velocity,  $V_s$  (m/s) ::**

$$V_s = \left(\frac{G_0}{\rho}\right)^{0.50}$$

**:: Undrained peak shear strength,  $S_u$  (kPa) ::**

$$N_{kt} = 10.50 + 7 \cdot \log(F_r) \text{ or user defined}$$

$$S_u = \frac{(q_t - \sigma_v)}{N_{kt}}$$

(applicable only to SBT<sub>n</sub>: 1, 2, 3, 4 and 9 or  $I_c > I_{c\_cutoff}$ )

**:: Remolded undrained shear strength,  $S_u(\text{rem})$  (kPa) ::**

$$S_{u(\text{rem})} = f_s \quad \text{(applicable only to SBT}_n\text{: 1, 2, 3, 4 and 9 or } I_c > I_{c\_cutoff}\text{)}$$

**:: Overconsolidation Ratio, OCR ::**

$$k_{OCR} = \left[ \frac{Q_{tn}^{0.20}}{0.25 \cdot (10.50 + 7 \cdot \log(F_r))} \right]^{1.25} \text{ or user defined}$$

$$OCR = k_{OCR} \cdot Q_{tn}$$

(applicable only to SBT<sub>n</sub>: 1, 2, 3, 4 and 9 or  $I_c > I_{c\_cutoff}$ )

**:: In situ Stress Ratio,  $K_0$  ::**

$$K_0 = (1 - \sin \phi') \cdot OCR^{\sin \phi'}$$

(applicable only to SBT<sub>n</sub>: 1, 2, 3, 4 and 9 or  $I_c > I_{c\_cutoff}$ )

**:: Soil Sensitivity,  $S_t$  ::**

$$S_t = \frac{N_s}{F_r}$$

(applicable only to SBT<sub>n</sub>: 1, 2, 3, 4 and 9 or  $I_c > I_{c\_cutoff}$ )

**:: Peak Friction Angle,  $\phi'$  (°) ::**

$$\phi' = 29.5^\circ \cdot B_q^{0.121} \cdot (0.256 + 0.336 \cdot B_q + \log Q_t)$$

(applicable for  $0.10 < B_q < 1.00$ )

**References**

- Robertson, P.K., Cabal K.L., Guide to Cone Penetration Testing for Geotechnical Engineering, Gregg Drilling & Testing, Inc., 5<sup>th</sup> Edition, November 2012
- Robertson, P.K., Interpretation of Cone Penetration Tests - a unified approach., Can. Geotech. J. 46(11): 1337–1355 (2009)
- N Barounis, J Philpot, Estimation of in-situ water content, void ratio, dry unit weight and porosity using CPT for saturated sands, Proc. 20th NZGS Geotechnical Symposium



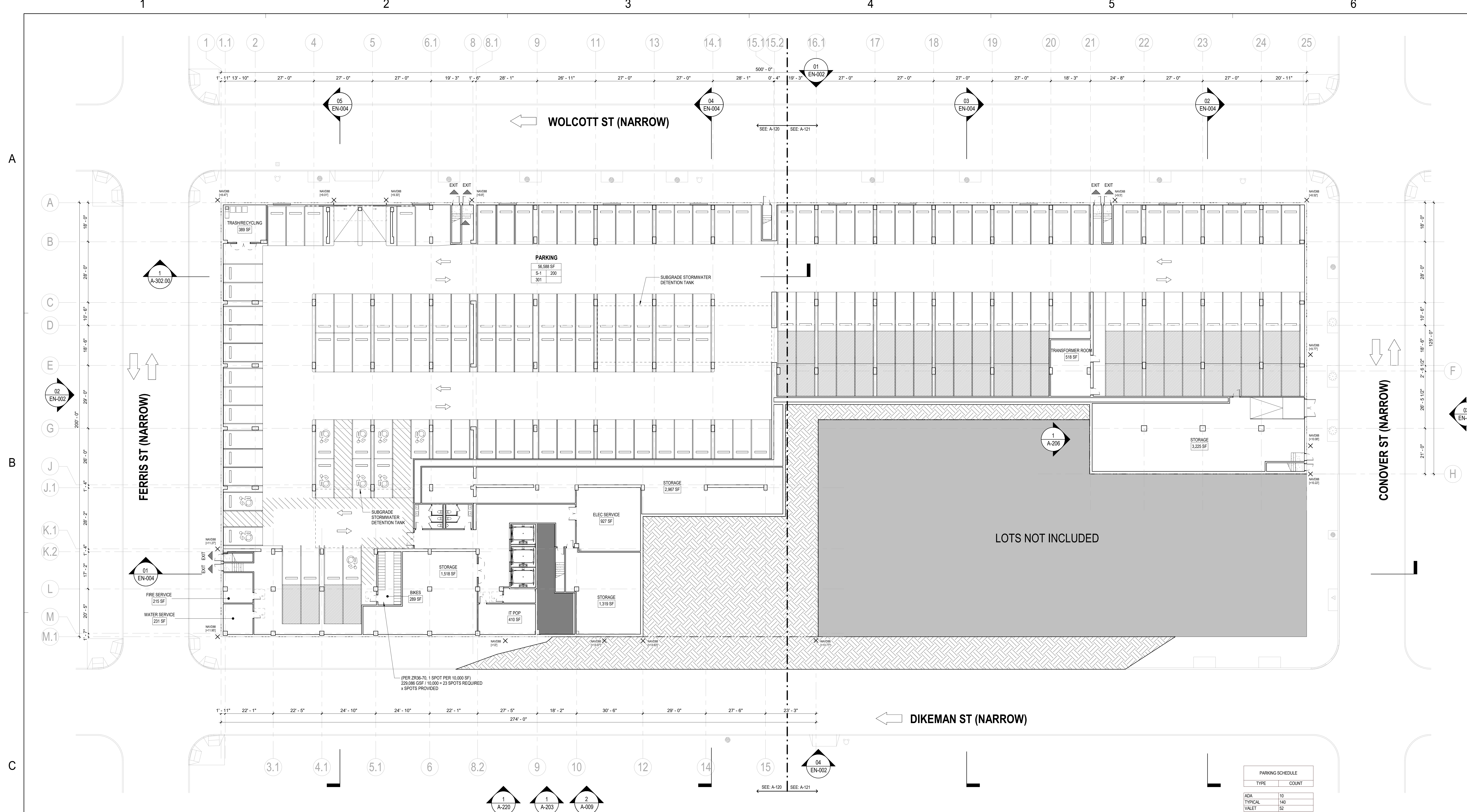
**ATTACHMENT 2**

**PROPOSED REDEVELOPMENT PLANS**

BUNGALOW PROJECTS RE 233 BROADWAY, 10TH FLOOR NEW YORK, NY 10007 917.916.6171	CLIENT
COOKFOX ARCHITECTS, BPC 250 WEST 57TH STREET, 17TH FLOOR NEW YORK, NY 10107 T: 212.477.0267 F: 212.477.4521	ARCHITECT
AMA GROUP 825 EIGHTH AVENUE, FL18 NEW YORK, NY 10019 P: 212.864.7722	MEP ENGINEER
THORNTON TOMASETTI 120 BROADWAY NEW YORK, NY 10271-0016 T: 1-917.661.7800	STRUCTURAL ENGINEER
LANGAN ENGINEERING 300 WEST 31ST STREET, 8TH FLOOR NEW YORK, NY 10001-2723 T: 212.479.5400	GEOTECHNICAL CONSULTANT
PHILIP HABB & ASSOCIATES 432 PARK AVENUE SOUTH, NEW YORK, NY 10016 T: 212.929.9556	CIVIL & PARKING CONSULTANT
THORNTON TOMASETTI 120 BROADWAY NEW YORK, NY 10271-0016 T: 1-917.661.7800	SUSTAINABILITY CONSULTANT
RIZZO-BROOKBRIDGE 300 BROADWAY, 5TH FLOOR NEW YORK, NY 10018 T: 212.465.9880	CODE CONSULTANT
ARUP 77 WATER STREET NEW YORK, NY 10005 P: 212.806.3000	ACOUSTICS
THORNTON TOMASETTI 120 BROADWAY NEW YORK, NY 10271-0016 T: 1-917.661.7800	EXTERIOR WALL CONSULTANT
CBA ELEVATOR CONSULTANTS 190 MANHATTAN STREET, SUITE 402 HACKENSACK, NJ 07601 T: 1-201.884.0911	ELEVATOR CONSULTANT
THORNTON TOMASETTI 120 BROADWAY NEW YORK, NY 10271-0016 T: 1-917.661.7800	FLOOD CONSULTANT

ISSUES:

NO.	DATE	DESCRIPTION
01		
02		
03	05.31.24	NYC DOB FILING SET
04		
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30		



PARKING SCHEDULE

TYPE	COUNT
ADA	10
TYPICAL	140
VALET	52
Grand Total	202

**01 OVERALL FLOOR PLAN PARKING**  
 1/16" = 1'-0"

PARKING AREAS AND OCCUPANCY CALC

Name	Gross Area	Occupancy Type	Occupancy Load Factor	Occupant Load	Comments
BIKES	289 SF	S-1	300	2	
ELEC SERVICE	927 SF	S-1	300	3	
FIRE SERVICE	215 SF	S-1	300	1	
IT POP	410 SF	S-1	300	1	
PARKING	56,568 SF	S-1	200	301	
STORAGE	1,319 SF	1	1	4	
STORAGE	1,518 SF	S-1	300	4	
STORAGE	2,967 SF	S-1	300	7	
STORAGE	3,225 SF	S-1	300	11	
TRANSFORMER ROOM	518 SF	S-1	300	1	
TRASH/RECYCLING	389 SF	S-1	300	1	
WATER SERVICE	231 SF	S-1	300	1	
Grand Total	66,594 SF			333	

PLUMBING FIXTURE CALCULATIONS

NYMPC SECTION 403.1

TOTAL FLOOR OCCUPANCY: 333 PERSONS  
 167 PER GENDER

REQUIRED WATER CLOSETS

OCCUPANCY TYPE	OCCUPANCY	RANGE/CALC	FIXTURES
F-1	167	1 PER 100	2
FIXTURES REQUIRED PER GENDER			2
TOTAL FIXTURES REQUIRED			2 (2)

REQUIRED LAVATORIES

OCCUPANCY TYPE	OCCUPANCY	RANGE	FIXTURES
F-1	167	1 PER 100	2
FIXTURES REQUIRED PER GENDER			2
TOTAL FIXTURES REQUIRED			2 (2)

REQUIRED DRINKING FOUNTAINS

OCCUPANCY TYPE	TOTAL OCCUPANCY	CALCULATION	FIXTURES
F-1	340	1 PER 1,000	0
TOTAL DRINKING FOUNTAINS REQUIRED			0
ACCESSIBLE DRINKING FOUNTAINS			50%

REQUIRED SERVICE SINKS

1 REQUIRED

FIXTURE SUMMARY

	WATER CLOSETS		LAVATORIES		DRINKING FOUNTAINS	SERVICE SINK
	MALE	FEMALE	MALE	FEMALE		
REQUIRED	2	2	2	2	0	1
PROVIDED	3	3	2	2	0	1

WALL TYPE, FIRE, TRAVEL DISTANCE

**PARTITION LEGEND**

- GYPSUM PARTITION
- CMU PARTITION

**WALL FIRE RATING**

- 3 HR FIRE RATED PARTITION WALL
- 2 HR FIRE RATED PARTITION WALL
- 1 HR FIRE RATED PARTITION WALL

**TRAVEL DISTANCES**

- COMMON PATH OF TRAVEL
- MAX TRAVEL DISTANCE

NOTE: ALL PUBLIC EGRESS CORRIDORS TO BE COMPLETELY ENCLOSED IN CONSTRUCTION HAVING A MINIMUM OF 2 HOUR FIRE-RATING.

EXIT SIGN & SPRINKLER SYMBOLS

**EXIT SIGN SYMBOL LEGEND**

- ONE-SIDED
  - DOUBLE DIRECTION
  - SINGLE DIRECTION
  - NON-DIRECTIONAL
  - ↑ DENOTES WALL MOUNTED
- TWO-SIDED

**SPRINKLER SYMBOL LEGEND**

- SPRINKLER - CEILING - UPRIGHT/PENDENT
- SPRINKLER - CEILING - CONCEALED
- ◊ SPRINKLER - SIDEWALL - PENDENT
- ◑ SPRINKLER - SIDEWALL - CONCEALED
- ⚡ SPRINKLER - "E" - EXTENDED THROW

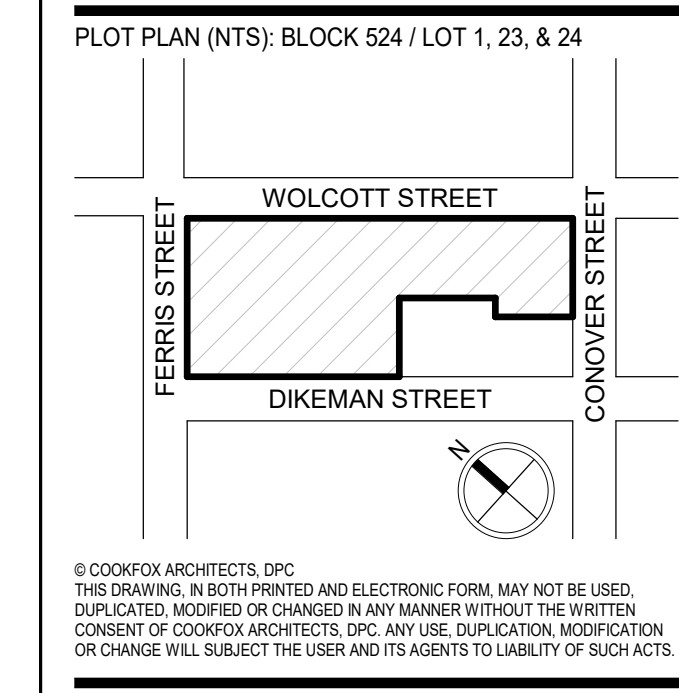
OCCUPANCY LEGEND

**OCCUPANCY LEGEND**

- AREA PER OCCUPANT
- AREA OF ROOM
- OCCUPANCY TYPE
- NO. OF OCCUPANTS
- DOOR WIDTH

GENERAL NOTES:

- ALL GRID LINES AT STRUCTURAL PRECAST SYSTEMS ARE ALIGNED TO FACE OF WALL
- ALL GRID LINES AT STRUCTURAL STEEL ARE AT CENTERLINE OF COLUMN



PROJECT:

**145 WOLCOTT**  
 BROOKLYN, NY 11231

DRAWING TITLE:  
**OVERALL FLOOR PLAN PARKING**

PROJ NO: 4309  
 SCALE: 1/16" = 1'-0"  
 SHEET SIZE: 48"x36"  
 DWG NO:  
**A-100.00**

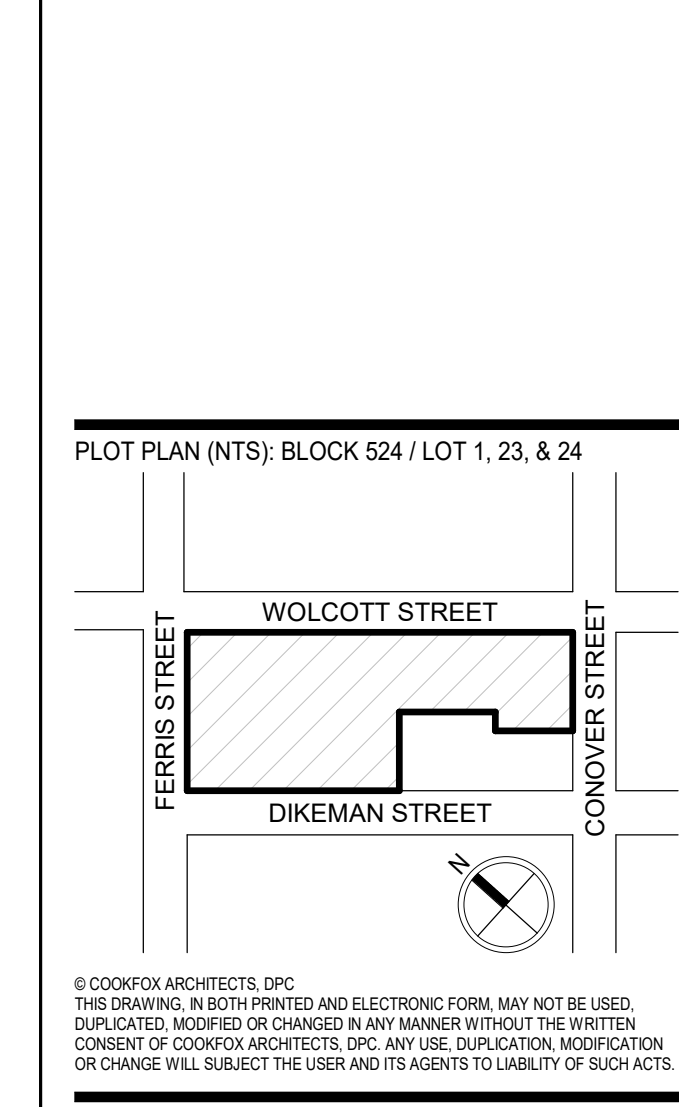
B SCAN STICKER

NOT FOR CONSTRUCTION



BUNGALOW PROJECTS RE 233 BROADWAY, 10TH FLOOR NEW YORK, NY 10007 917.916.6171	CLIENT
COOKFOX ARCHITECTS, BPC 250 WEST 57TH STREET, 17TH FLOOR NEW YORK, NY 10107 T: 212.477.0287 F: 212.477.4521	ARCHITECT
AMA GROUP 825 EIGHTH AVENUE, FL18 NEW YORK, NY 10019 P: 212.864.7722	MEP ENGINEER
THORNTON TOMASETTI 120 BROADWAY NEW YORK, NY 10271-0016 T: 1-917.661.7800	STRUCTURAL ENGINEER
LANGAN ENGINEERING 300 WEST 31ST STREET, 8TH FLOOR NEW YORK, NY 10001-2723 T: 212.479.5400	GEOTECHNICAL CONSULTANT
PHILIP HABB & ASSOCIATES 432 PARK AVENUE SOUTH, NEW YORK, NY 10016 T: 212.929.5656	CIVIL & PARKING CONSULTANT
THORNTON TOMASETTI 120 BROADWAY NEW YORK, NY 10271-0016 T: 1-917.661.7800	SUSTAINABILITY CONSULTANT
RIZZO-BROOKBRIDGE 300 BROADWAY, 11TH FLOOR NEW YORK, NY 10018 T: 212.455-9590	CODE CONSULTANT
ARUP 77 WATER STREET NEW YORK, NY 10005 P: 212.896.3000	ACOUSTICS
THORNTON TOMASETTI 120 BROADWAY NEW YORK, NY 10271-0016 T: 1-917.661.7800	EXTERIOR WALL CONSULTANT
CBA ELEVATOR CONSULTANTS 190 MANHATTAN STREET, SUITE 402 HACKENSACK, NJ 07601 T: 1.201.884.0911	ELEVATOR CONSULTANT
THORNTON TOMASETTI 120 BROADWAY NEW YORK, NY 10271-0016 T: 1-917.661.7800	FLOOD CONSULTANT

NO.	DATE	DESCRIPTION
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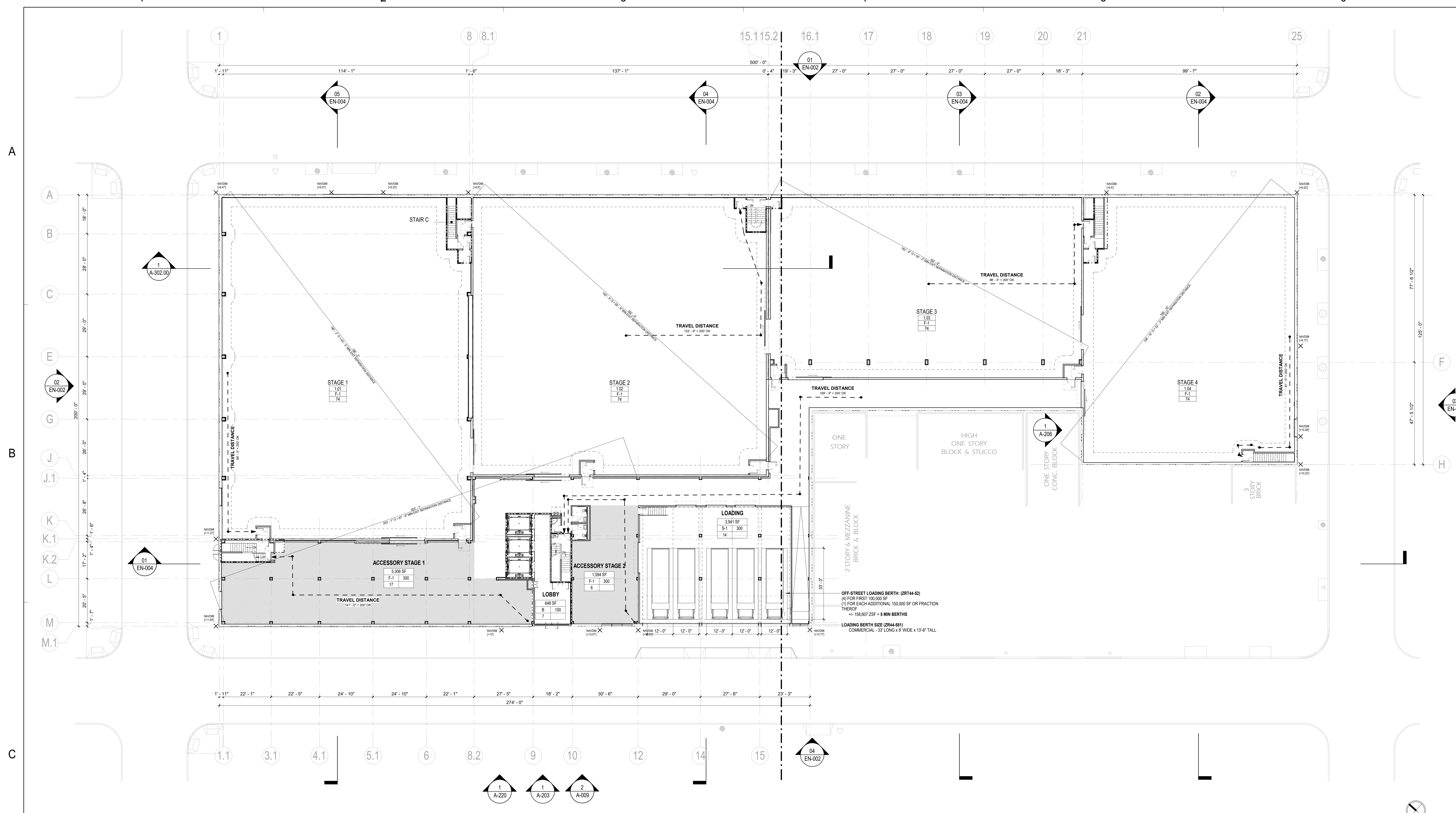
PROJECT:

**145 WOLCOTT**  
BROOKLYN, NY 11231

DRAWING TITLE:  
**OVERALL FLOOR PLAN GROUND**

PROJ NO: 4309  
SCALE: 1/16" = 1'-0"  
SHEET SIZE: 48"x36"  
DWG NO:  
**A-101.00**

B SCAN STICKER



**01 OVERALL FLOOR PLAN GROUND**  
1/16" = 1'-0"

GROUND FLOOR AREAS AND OCCUPANCY CALC						
NAME	GROSS AREA	OCCUPANCY TYPE	OCCUPANCY FACTOR	CALCULATED OCCUPANCY	PROPOSED OCCUPANCY	COMMENTS
LOBBY	648 SF	F-1	100	7	7	
STAGE 1	18,973 SF	F-1	100	184	174	STATED OCCUPANCY
STAGE 2	11,973 SF	F-1	100	114	74	STATED OCCUPANCY
STAGE 3	11,973 SF	F-1	100	114	74	STATED OCCUPANCY
STAGE 4	11,973 SF	F-1	100	114	74	STATED OCCUPANCY
ACCESSORY STAGE 1	5,300 SF	F-1	300	17	17	
ACCESSORY STAGE 2	1,584 SF	F-1	300	5	5	
LOADING	3,941 SF	S-1	300	14	14	
ST-1	2,941 SF	S-1	300	14	14	
Grand Total	70,720 SF			340	340	

**GROUND FLOOR PLUMBING FIXTURE CALCULATIONS**  
NYCPC SECTION 403.1

**REQUIRED WATER CLOSETS**

OCCUPANCY TYPE	OCCUPANCY	RANGE/CALC	FIXTURES
F-1	170	1 PER 100	2
<b>FIXTURES REQUIRED PER GENDER</b>			<b>2</b>
<b>TOTAL FIXTURES REQUIRED</b>			<b>2 (2)</b>

**REQUIRED LAVATORIES**

OCCUPANCY TYPE	OCCUPANCY	RANGE	FIXTURES
F-1	170	1 PER 100	2
<b>FIXTURES REQUIRED PER GENDER</b>			<b>2</b>
<b>TOTAL FIXTURES REQUIRED</b>			<b>2 (2)</b>

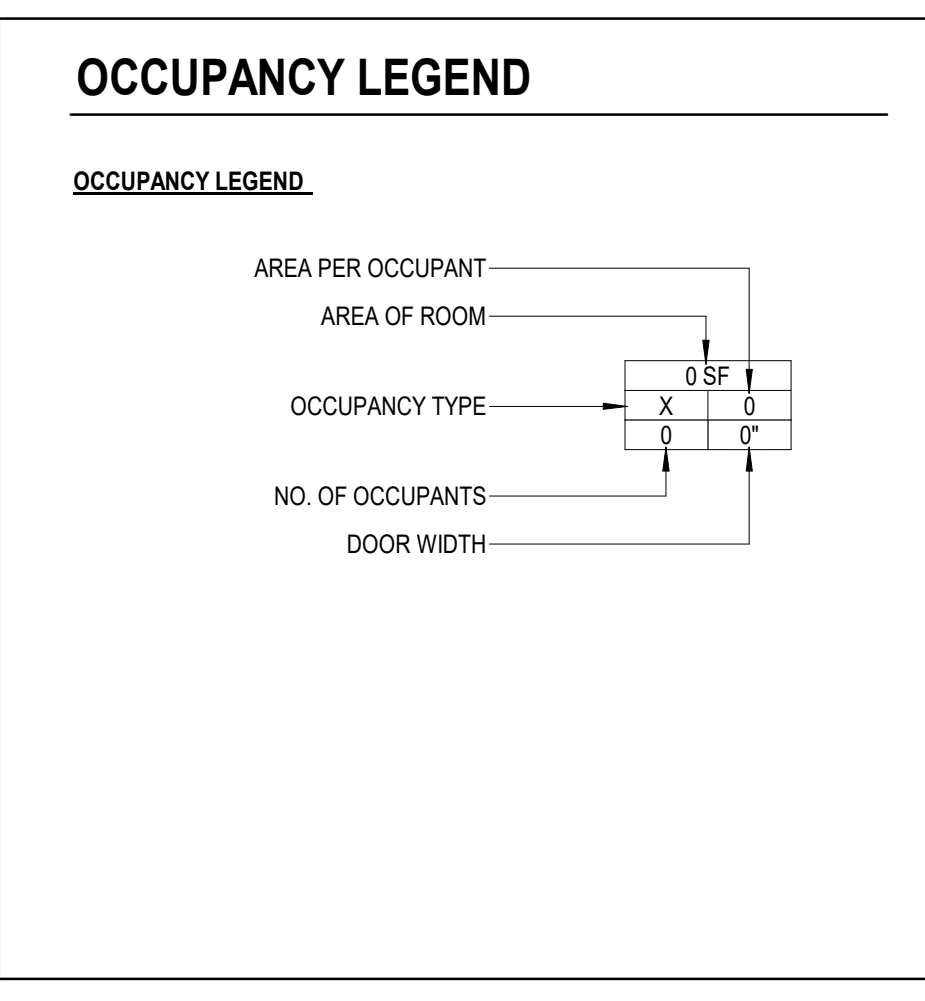
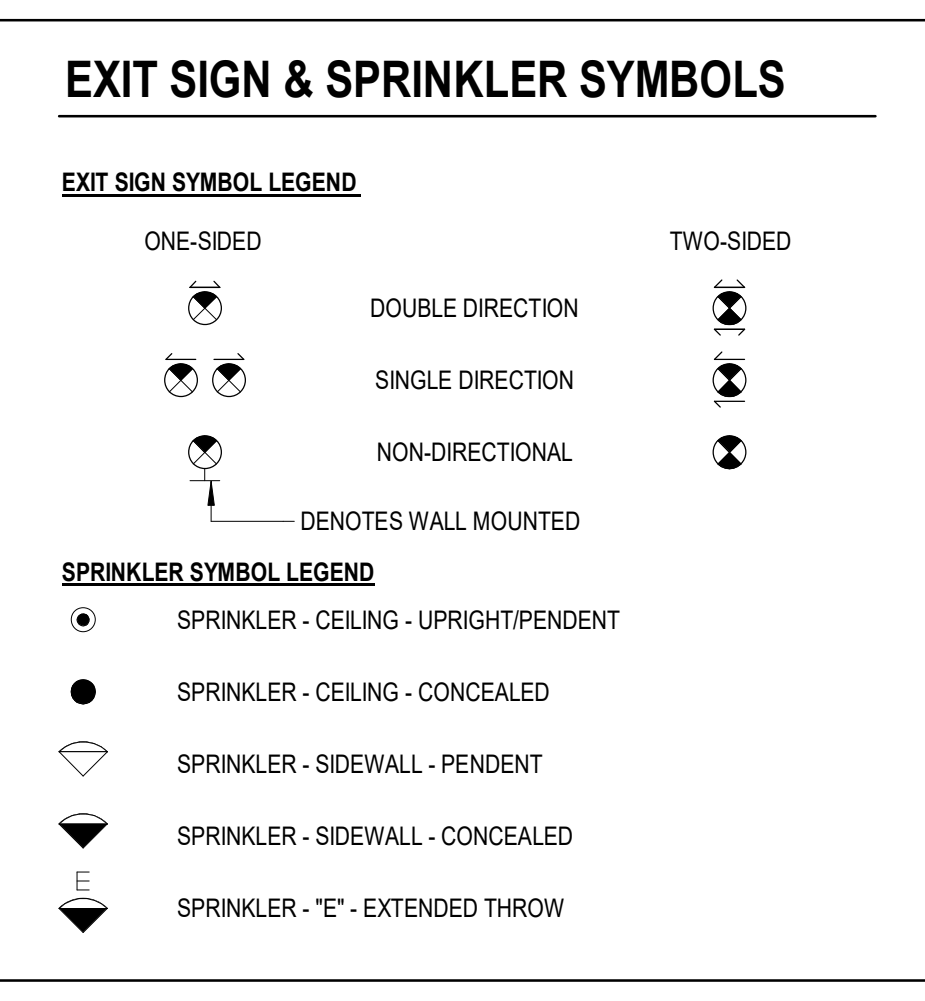
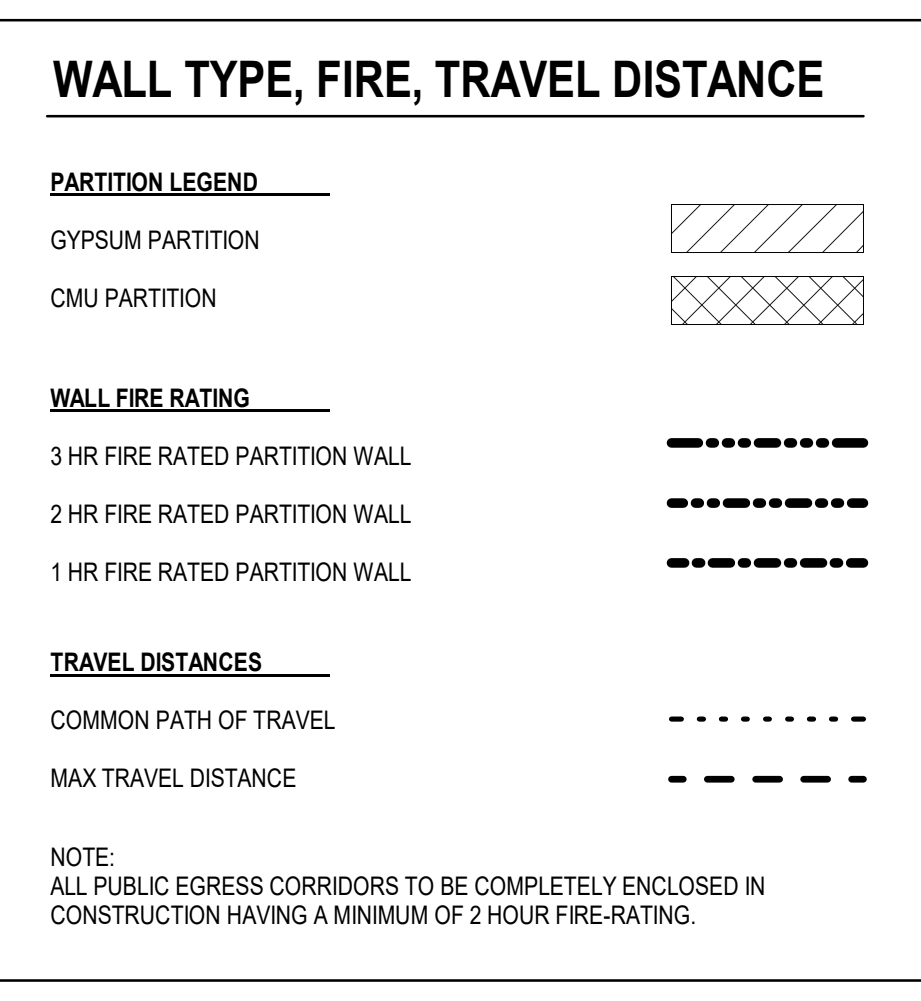
**REQUIRED DRINKING FOUNTAINS**

OCCUPANCY TYPE	TOTAL OCCUPANCY	CALCULATION	FIXTURES
F-1	340	1 PER 400	1
<b>TOTAL DRINKING FOUNTAINS REQUIRED</b>			<b>1</b>
<b>ACCESSIBLE DRINKING FOUNTAINS</b>			<b>50%</b>

**REQUIRED SERVICE SINKS**  
1 REQUIRED

**FIXTURE SUMMARY**

	WATER CLOSETS		LAVATORIES		DRINKING FOUNTAINS	SERVICE SINK
	MALE	FEMALE	MALE	FEMALE		
REQUIRED	2	2	2	2	1	1
PROVIDED	1	1	1	1	1	1



**GENERAL NOTES:**

- ALL GRID LINES AT STRUCTURAL PRECAST SYSTEMS ARE ALIGNED TO FACE OF WALL
- ALL GRID LINES AT STRUCTURAL STEEL ARE AT CENTERLINE OF COLUMN

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 250 WEST 57TH STREET, 17TH FLOOR  
 NEW YORK, NY 10019  
 T: 212.477.0287 F: 212.477.4521  
 www.cookfox.com

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BUNGALOW PROJECTS RE 233 BROADWAY, 10TH FLOOR NY, NY 10007 917.916.6171	CLIENT
COOKFOX ARCHITECTS, BPC 250 WEST 57TH STREET, 17TH FLOOR NEW YORK, NY 10107 T: 212.477.0287 F: 212.477.4521	ARCHITECT
AMA GROUP 825 EIGHTH AVENUE, FL 18 NEW YORK, NY 10019 P: 212.864.7722	MEP ENGINEER
THORNTON TOMASETTI 120 BROADWAY NEW YORK, NY 10271-0016 T: 1.917.661.7800	STRUCTURAL ENGINEER
LANGAN ENGINEERING 300 WEST 31ST STREET, 8TH FLOOR NEW YORK, NY 10001-2723 T: 212.479.5400	GEOTECHNICAL CONSULTANT
PHILIP HABB & ASSOCIATES 432 PARK AVENUE SOUTH, NEW YORK, NY 10016 T: 212.329.5656	CIVIL & PARKING CONSULTANT
THORNTON TOMASETTI 120 BROADWAY NEW YORK, NY 10271-0016 T: 1.917.661.7800	SUSTAINABILITY CONSULTANT
RIZZO-BROOKBRIDGE 300 BROADWAY, 5TH FLOOR NEW YORK, NY 10018 T: 212.465-9990	CODE CONSULTANT
ARUP 77 WATER STREET NEW YORK, NY 10005 P: 212.896.3000	ACOUSTICS
THORNTON TOMASETTI 120 BROADWAY NEW YORK, NY 10271-0016 T: 1.917.661.7800	EXTERIOR WALL CONSULTANT
CBA ELEVATOR CONSULTANTS 190 MANHATTAN STREET, SUITE 402 HACKENSBACH, NJ 07061 T: 1.201.884.0911	ELEVATOR CONSULTANT
THORNTON TOMASETTI 120 BROADWAY NEW YORK, NY 10271-0016 T: 1.917.661.7800	FLOOD CONSULTANT

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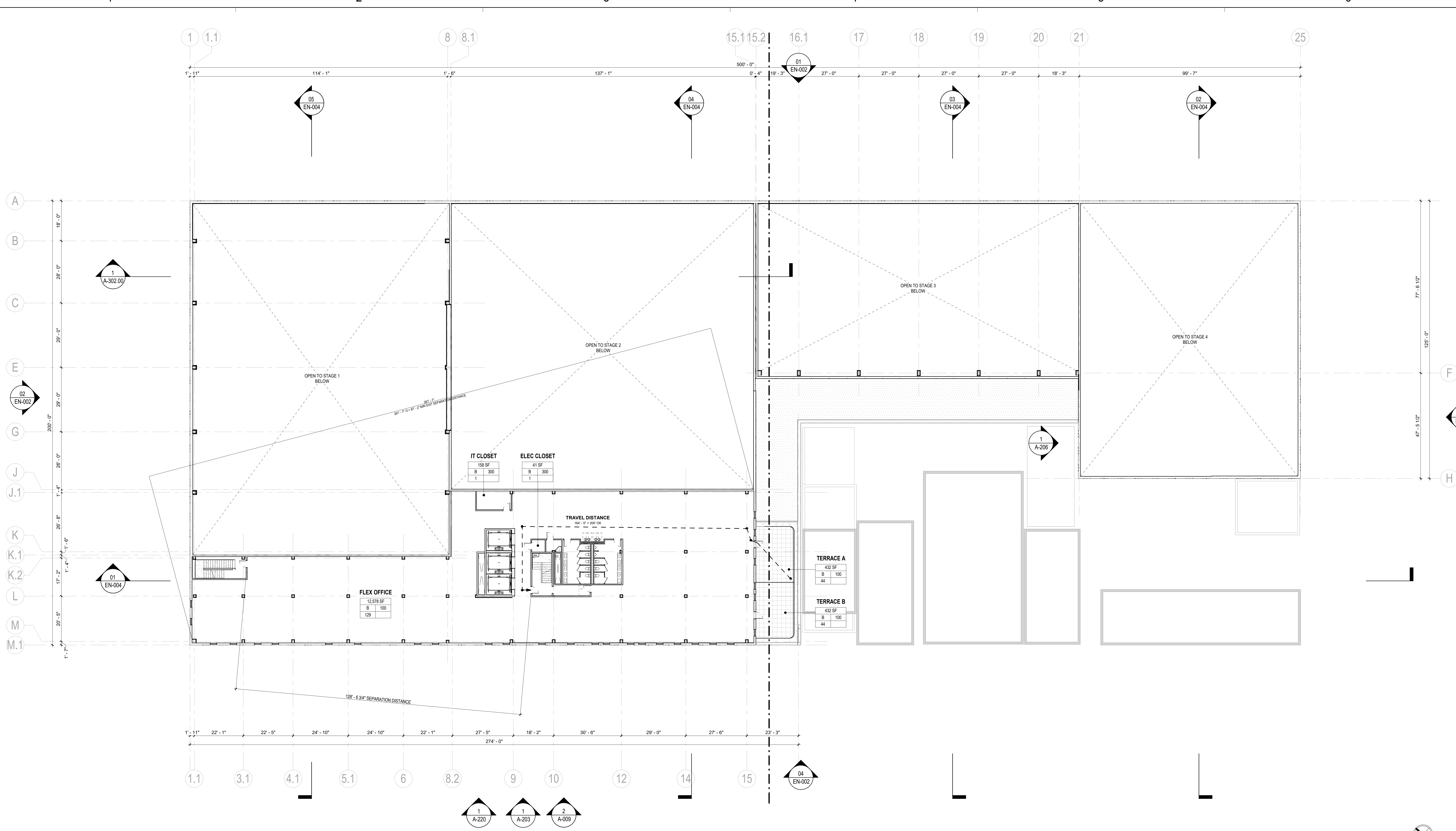
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01 FLOOR 2  
1/16" = 1'-0"

FLOOR 02 AREAS AND OCCUPANCY CALC - C&S

Name	Area	Occupancy Type	Occupancy Load Factor	Occupant Load	Comments
FLEX OFFICE	12,578 SF	B	100	129	
IT CLOSET	158 SF	B	300	1	
ELEC CLOSET	41 SF	B	300	1	
Grand total:	3			131	

FLOOR 02 AREAS AND OCCUPANCY CALC - TERRACES

Name	Area	Occupancy Type	Occupancy Load Factor	Calculated Occupant Load	Comments
TERRACE A	432 SF	B	100	44	EXEMPT FROM ZONING PARKING CALCULATIONS
TERRACE B	432 SF	B	100	44	EXEMPT FROM ZONING PARKING CALCULATIONS
Grand total:	2			88	

OCCUPANT GRAND TOTAL

219
-----

FLOOR 02 PLUMBING FIXTURE CALCULATIONS  
NYPC SECTION 403.1

TOTAL FLOOR OCCUPANCY	219 PERSONS
110 PER GENDER	

REQUIRED WATER CLOSETS

OCCUPANCY TYPE	OCCUPANCY	RANGE	FIXTURES
B	110	(101-140)	5
TOTAL FIXTURES REQUIRED PER GENDER			5 (2)
TOTAL FIXTURES REQUIRED			10

REQUIRED LAVATORIES

OCCUPANCY TYPE	OCCUPANCY	RANGE	FIXTURES
B	110	(76-115)	4
TOTAL FIXTURES REQUIRED PER GENDER			4
TOTAL FIXTURES REQUIRED			4 (2)

REQUIRED DRINKING FOUNTAINS

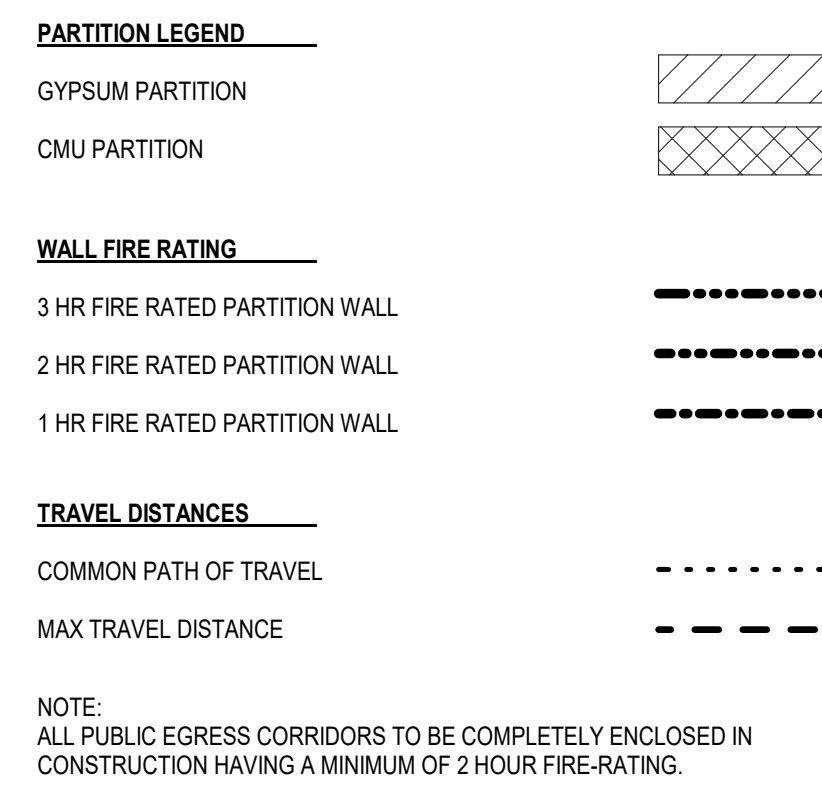
OCCUPANCY TYPE	TOTAL OCCUPANCY	CALCULATION	FIXTURES
B	219	219 / 100 = 2.1	3
TOTAL DRINKING FOUNTAINS REQUIRED			3
ACCESSIBLE DRINKING FOUNTAINS	50%		2

REQUIRED SERVICE SINKS  
1 REQUIRED

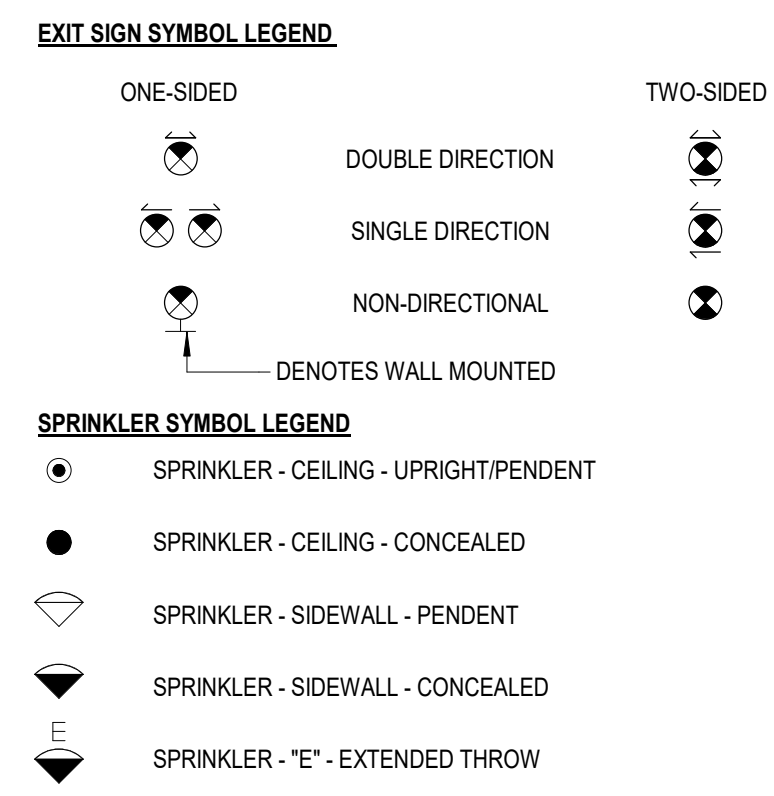
FIXTURE SUMMARY

	WATER CLOSETS		LAVATORIES		DRINKING FOUNTAINS		SERVICE SINK
	MALE	FEMALE	MALE	FEMALE	MALE	FEMALE	
REQUIRED	5	5	4	4	3	3	1
PROVIDED	6	6	6	6	1	1	1

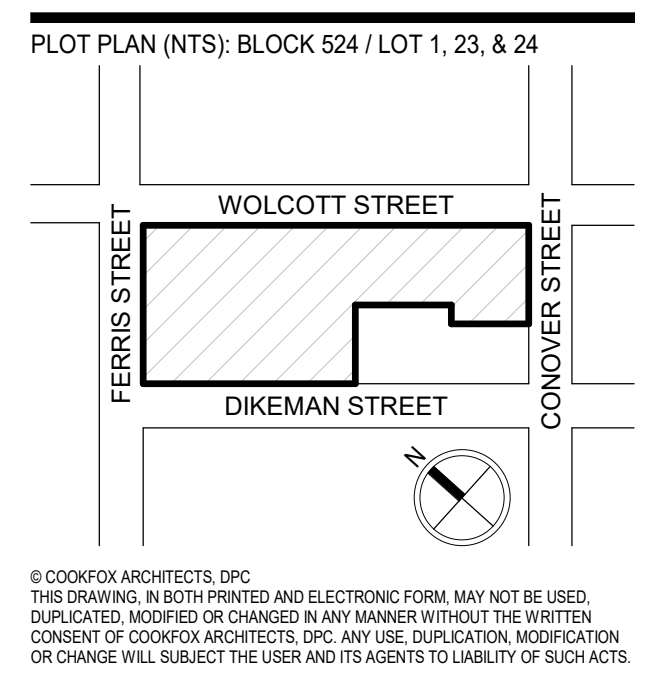
WALL TYPE, FIRE, TRAVEL DISTANCE



EXIT SIGN & SPRINKLER SYMBOLS



GENERAL NOTES:  
\*ALL GRID LINES AT STRUCTURAL PRECAST SYSTEMS ARE ALIGNED TO FACE OF WALL  
\*ALL GRID LINES AT STRUCTURAL STEEL ARE AT CENTERLINE OF COLUMN



PROJECT:  
145 WOLCOTT  
BROOKLYN, NY 11231  
DRAWING TITLE:  
OVERALL FLOOR PLAN 02

SEAL	PROJ NO: 4309
	SCALE: 1/16" = 1'-0"
	SHEET SIZE: 48"x36"
	DWG NO: A-102.0000
B SCAN STICKER	

NOT FOR CONSTRUCTION

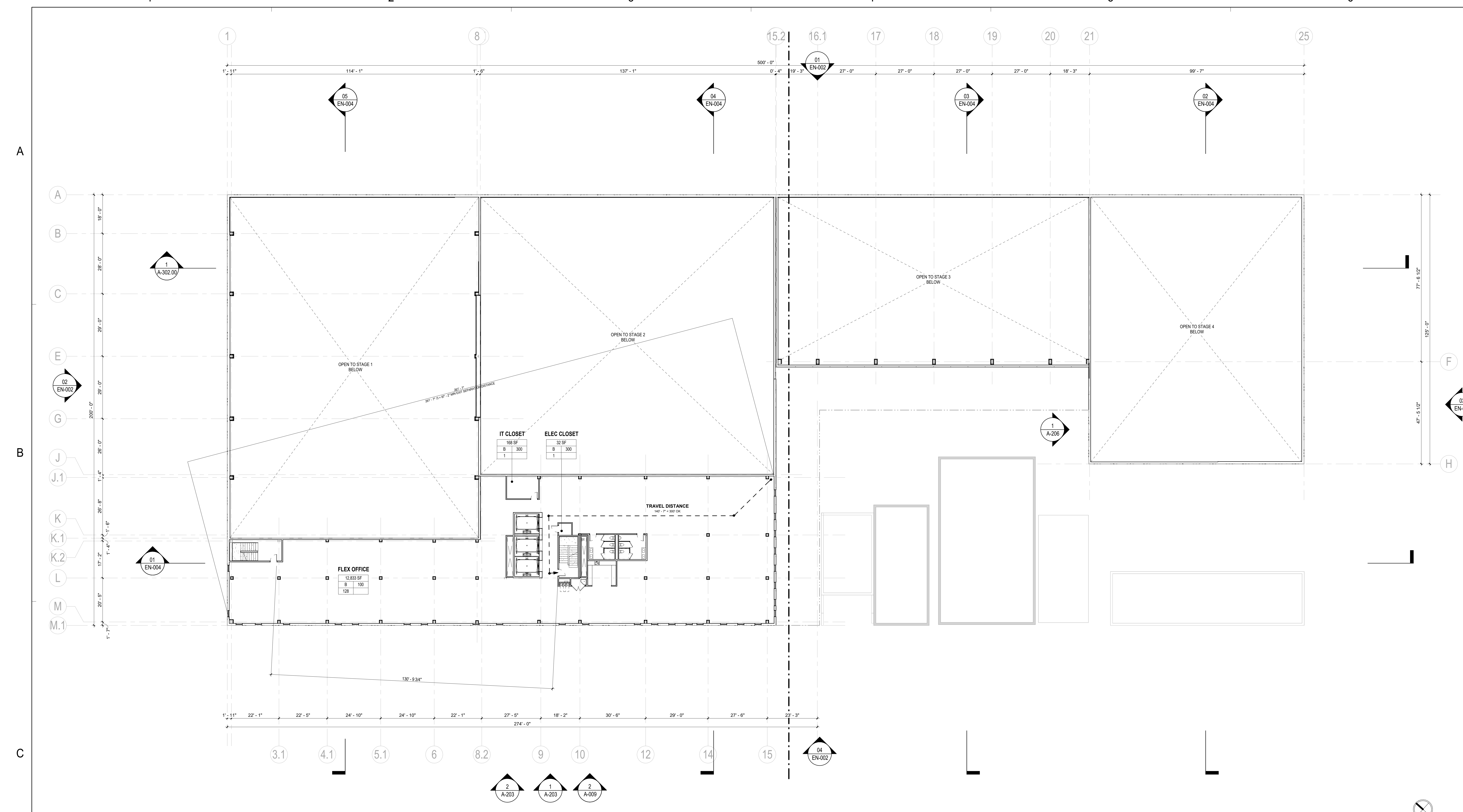
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<b>BUNGALOW PROJECTS RE</b> 233 BROADWAY, 10TH FLOOR NY, NY 10007 917.616.6171	CLIENT
<b>COOKFOX ARCHITECTS, BPC</b> 250 WEST 57TH STREET, 17TH FLOOR NEW YORK, NY 10107 T: 212.477.0267 F: 212.477.4521	ARCHITECT
<b>AMA GROUP</b> 825 EIGHTH AVENUE, FL18 NEW YORK, NY 10019 P: 212.864.7722	MEP ENGINEER
<b>THORNTON TOMASETTI</b> 120 BROADWAY NEW YORK, NY 10271-0016 T: 1.917.661.7800	STRUCTURAL ENGINEER
<b>LANGAN ENGINEERING</b> 300 WEST 31ST STREET, 8TH FLOOR NEW YORK, NY 10001-2223 T: 212.479.5400	GEOTECHNICAL CONSULTANT
<b>PHILIP HABB &amp; ASSOCIATES</b> 432 PARK AVENUE SOUTH, NEW YORK, NY 10016 T: 212.329.5656	CIVIL & PARKING CONSULTANT
<b>THORNTON TOMASETTI</b> 120 BROADWAY NEW YORK, NY 10271-0016 T: 1.917.661.7800	SUSTAINABILITY CONSULTANT
<b>RIZZO-BROOKBRIDGE</b> 300 BROADWAY, 5TH FLOOR NEW YORK, NY 10018 T: 212.465-9990	CODE CONSULTANT
<b>ARUP</b> 77 WATER STREET NEW YORK, NY 10005 P: 212.896.3000	ACOUSTICS
<b>THORNTON TOMASETTI</b> 120 BROADWAY NEW YORK, NY 10271-0016 T: 1.917.661.7800	EXTERIOR WALL CONSULTANT
<b>CBA ELEVATOR CONSULTANTS</b> 190 MANHATTAN STREET, SUITE 402 HACKENSACK, NJ 07601 T: 1.201.884.0911	ELEVATOR CONSULTANT
<b>THORNTON TOMASETTI</b> 120 BROADWAY NEW YORK, NY 10271-0016 T: 1.917.661.7800	FLOOD CONSULTANT

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**01 FLOOR 3**  
1/16" = 1'-0"

FLOOR 03 AREAS AND OCCUPANCY CALC - C&S

Name	Area	Occupancy Type	Occupancy Load Factor	Occupant Load	Comments
FLEX OFFICE	12,833 SF	B	100	128	
IT CLOSET	168 SF	B	300	1	
ELEC CLOSET	32 SF	B	300	1	
Grand total:	13,032 SF			130	

FLOOR 03 PLUMBING FIXTURE CALCULATIONS  
NYPC SECTION 403.1

TOTAL FLOOR OCCUPANCY: 130 PERSONS  
65 PER GENDER

REQUIRED WATER CLOSETS

OCCUPANCY TYPE	OCCUPANCY	RANGE	FIXTURES
B	65	(45-70)	3
FIXTURES REQUIRED PER GENDER			3
TOTAL FIXTURES REQUIRED			3 (2)

REQUIRED LAVATORIES

OCCUPANCY TYPE	OCCUPANCY	RANGE	FIXTURES
B	65	(51-75)	3
FIXTURES REQUIRED PER GENDER			3
TOTAL FIXTURES REQUIRED			3 (2)

REQUIRED DRINKING FOUNTAINS

OCCUPANCY TYPE	TOTAL OCCUPANCY	CALCULATION	FIXTURES
B	130	130 / 100 + 1.3	2
TOTAL DRINKING FOUNTAINS REQUIRED			2
ACCESSIBLE DRINKING FOUNTAINS			50% 1

REQUIRED SERVICE SINKS  
1 REQUIRED

**WALL TYPE, FIRE, TRAVEL DISTANCE**

**PARTITION LEGEND**

- GYP-SUM PARTITION
- CMU PARTITION

**WALL FIRE RATING**

- 3 HR FIRE RATED PARTITION WALL
- 2 HR FIRE RATED PARTITION WALL
- 1 HR FIRE RATED PARTITION WALL

**TRAVEL DISTANCES**

- COMMON PATH OF TRAVEL
- MAX TRAVEL DISTANCE

NOTE:  
ALL PUBLIC EGRESS CORRIDORS TO BE COMPLETELY ENCLOSED IN CONSTRUCTION HAVING A MINIMUM OF 2-HOUR FIRE-RATING.

**EXIT SIGN & SPRINKLER SYMBOLS**

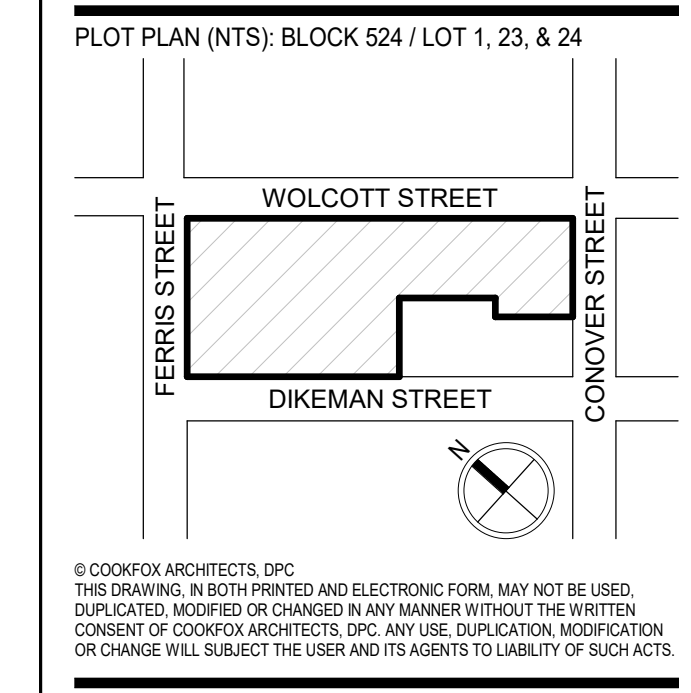
**EXIT SIGN SYMBOL LEGEND**

- ONE-SIDED
- DOUBLE DIRECTION
- TWO-SIDED
- SINGLE DIRECTION
- NON-DIRECTIONAL
- DENOTES WALL MOUNTED

**SPRINKLER SYMBOL LEGEND**

- SPRINKLER - CEILING - UPRIGHT/PENDENT
- SPRINKLER - CEILING - CONCEALED
- SPRINKLER - SIDEWALL - PENDENT
- SPRINKLER - SIDEWALL - CONCEALED
- SPRINKLER - "E" - EXTENDED THROW

GENERAL NOTES:  
- ALL GRID LINES AT STRUCTURAL PRECAST SYSTEMS ARE ALIGNED TO FACE OF WALL  
- ALL GRID LINES AT STRUCTURAL STEEL ARE AT CENTERLINE OF COLUMN



PROJECT:  
**145 WOLCOTT**  
BROOKLYN, NY 11231

DRAWING TITLE:  
**OVERALL FLOOR PLAN 03**

SEAL	PROJ NO: 4309
	SCALE: 1/16" = 1'-0"
	SHEET SIZE: 48"x36"
	DWG NO: A-103.00

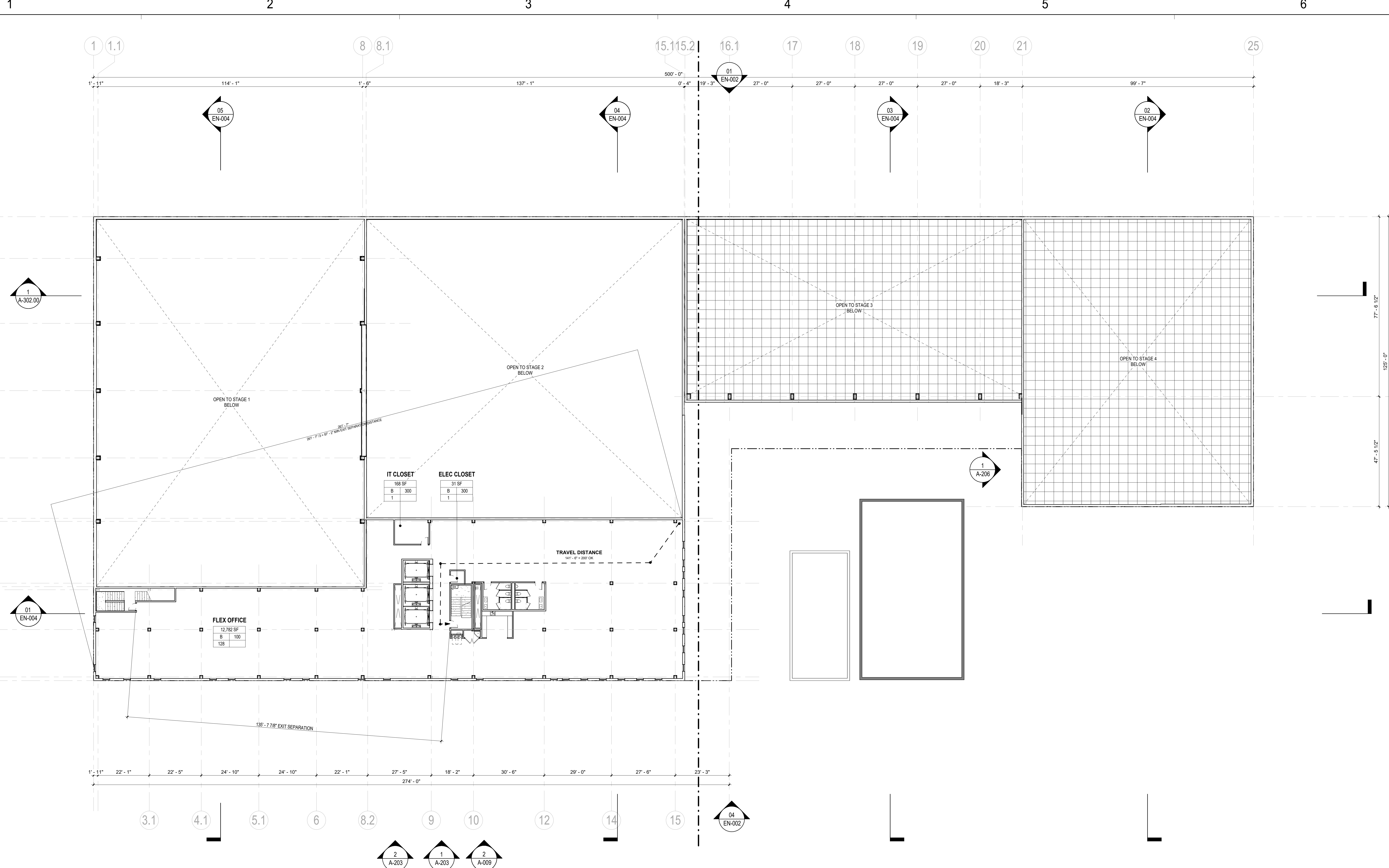
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<b>BUNGALOW PROJECTS RE</b> 233 BROADWAY, 10TH FLOOR NY, NY 10007 917.616.6171	CLIENT
<b>COOKFOX ARCHITECTS, BPC</b> 250 WEST 57TH STREET, 17TH FLOOR NEW YORK, NY 10107 T: 212.477.0267 F: 212.477.4521	ARCHITECT
<b>AMA GROUP</b> 825 EIGHTH AVENUE, FL18 NEW YORK, NY 10019 P: 212.364.7722	MEP ENGINEER
<b>THORNTON TOMASETTI</b> 120 BROADWAY NEW YORK, NY 10271-0016 T: 1.917.661.7800	STRUCTURAL ENGINEER
<b>LANGAN ENGINEERING</b> 300 WEST 31ST STREET, 8TH FLOOR NEW YORK, NY 10001-2223 T: 212.479.5400	GEOTECHNICAL CONSULTANT
<b>PHILIP HABB &amp; ASSOCIATES</b> 432 PARK AVENUE SOUTH, NEW YORK, NY 10016 T: 212.329.5656	CIVIL & PARKING CONSULTANT
<b>THORNTON TOMASETTI</b> 120 BROADWAY NEW YORK, NY 10271-0016 T: 1.917.661.7800	SUSTAINABILITY CONSULTANT
<b>RIZZO-BROOKBRIDGE</b> 300 BROADWAY, 5TH FLOOR NEW YORK, NY 10018 T: 212.455-9990	CODE CONSULTANT
<b>ARUP</b> 77 WATER STREET NEW YORK, NY 10005 P: 212.266.3000	ACOUSTICS
<b>THORNTON TOMASETTI</b> 120 BROADWAY NEW YORK, NY 10271-0016 T: 1.917.661.7800	EXTERIOR WALL CONSULTANT
<b>CBA ELEVATOR CONSULTANTS</b> 190 MANHATTAN STREET, SUITE 402 HACKENSAACK, NJ 07061 T: 1.201.884.0911	ELEVATOR CONSULTANT
<b>THORNTON TOMASETTI</b> 120 BROADWAY NEW YORK, NY 10271-0016 T: 1.917.661.7800	FLOOD CONSULTANT

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**01 FLOOR 4**  
1/16" = 1'-0"

Name	Area	Occupancy Type	Occupancy Load Factor	Occupant Load	Comments
FLEX OFFICE	12,782 SF	B	100	128	
IT CLOSET	168 SF	B	300	1	
ELEC CLOSET	31 SF	B	300	1	
Grand total:	12,982 SF			130	

**FLOOR 04 PLUMBING FIXTURE CALCULATIONS**  
NYPC SECTION 403.1

TOTAL FLOOR OCCUPANCY	130 PERSONS
PER GENDER	65

OCCUPANCY TYPE	OCCUPANCY	RANGE	FIXTURES
B	65	(45-70)	3
FIXTURES REQUIRED PER GENDER			3
TOTAL FIXTURES REQUIRED			3 (2)

OCCUPANCY TYPE	OCCUPANCY	RANGE	FIXTURES
B	65	(51-75)	3
FIXTURES REQUIRED PER GENDER			3
TOTAL FIXTURES REQUIRED			3 (2)

OCCUPANCY TYPE	TOTAL OCCUPANCY	CALCULATION	FIXTURES
B	130	130 / 100 + 1.3	2
TOTAL DRINKING FOUNTAINS REQUIRED			2
ACCESSIBLE DRINKING FOUNTAINS	50%		1

**REQUIRED SERVICE SINKS**

1 REQUIRED
------------

	WATER CLOSETS	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINK
	MALE	FEMALE	MALE	FEMALE
REQUIRED	3	3	3	2
PROVIDED	3	3	2	1

**WALL TYPE, FIRE, TRAVEL DISTANCE**

**PARTITION LEGEND**

- Gypsum Partition
- CMU Partition

**WALL FIRE RATING**

- 3 HR FIRE RATED PARTITION WALL
- 2 HR FIRE RATED PARTITION WALL
- 1 HR FIRE RATED PARTITION WALL

**TRAVEL DISTANCES**

- COMMON PATH OF TRAVEL
- MAX TRAVEL DISTANCE

NOTE: ALL PUBLIC EGRESS CORRIDORS TO BE COMPLETELY ENCLOSED IN CONSTRUCTION HAVING A MINIMUM OF 2 HOUR FIRE RATING.

**EXIT SIGN & SPRINKLER SYMBOLS**

**EXIT SIGN SYMBOL LEGEND**

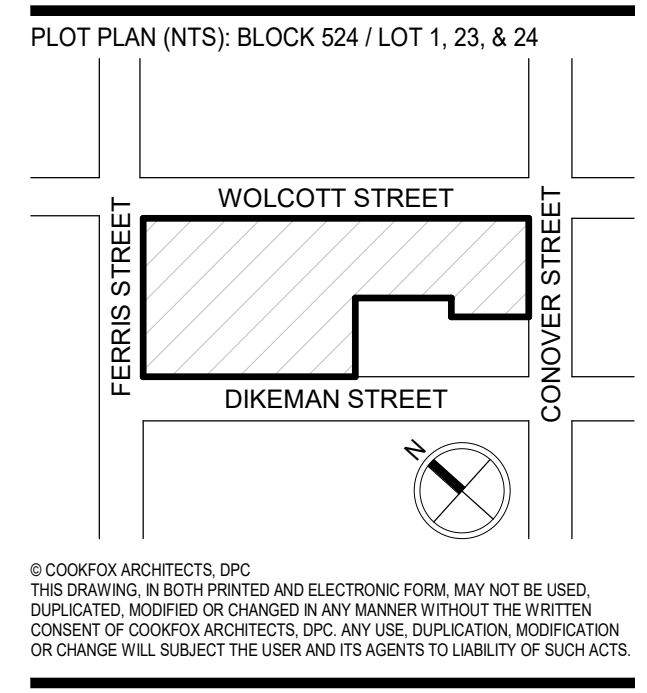
- ONE-SIDED
- DOUBLE DIRECTION
- TWO-SIDED
- SINGLE DIRECTION
- NON-DIRECTIONAL
- DENOTES WALL MOUNTED

**SPRINKLER SYMBOL LEGEND**

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- SPRINKLER - CEILING - CONCEALED
- SPRINKLER - SIDEWALL - PENDENT
- SPRINKLER - SIDEWALL - CONCEALED
- SPRINKLER - "E" - EXTENDED THROW

**GENERAL NOTES:**

- \*ALL GRID LINES AT STRUCTURAL PRECAST SYSTEMS ARE ALIGNED TO FACE OF WALL
- \*ALL GRID LINES AT STRUCTURAL STEEL ARE AT CENTERLINE OF COLUMN



PROJECT:  
**145 WOLCOTT**  
BROOKLYN, NY 11231

DRAWING TITLE:  
**OVERALL FLOOR PLAN 04**

SEAL	PROJ NO: 4309
	SCALE: 1/16" = 1'-0"
	SHEET SIZE: 48"x36"
	DWG NO: A-104.00

NOT FOR CONSTRUCTION

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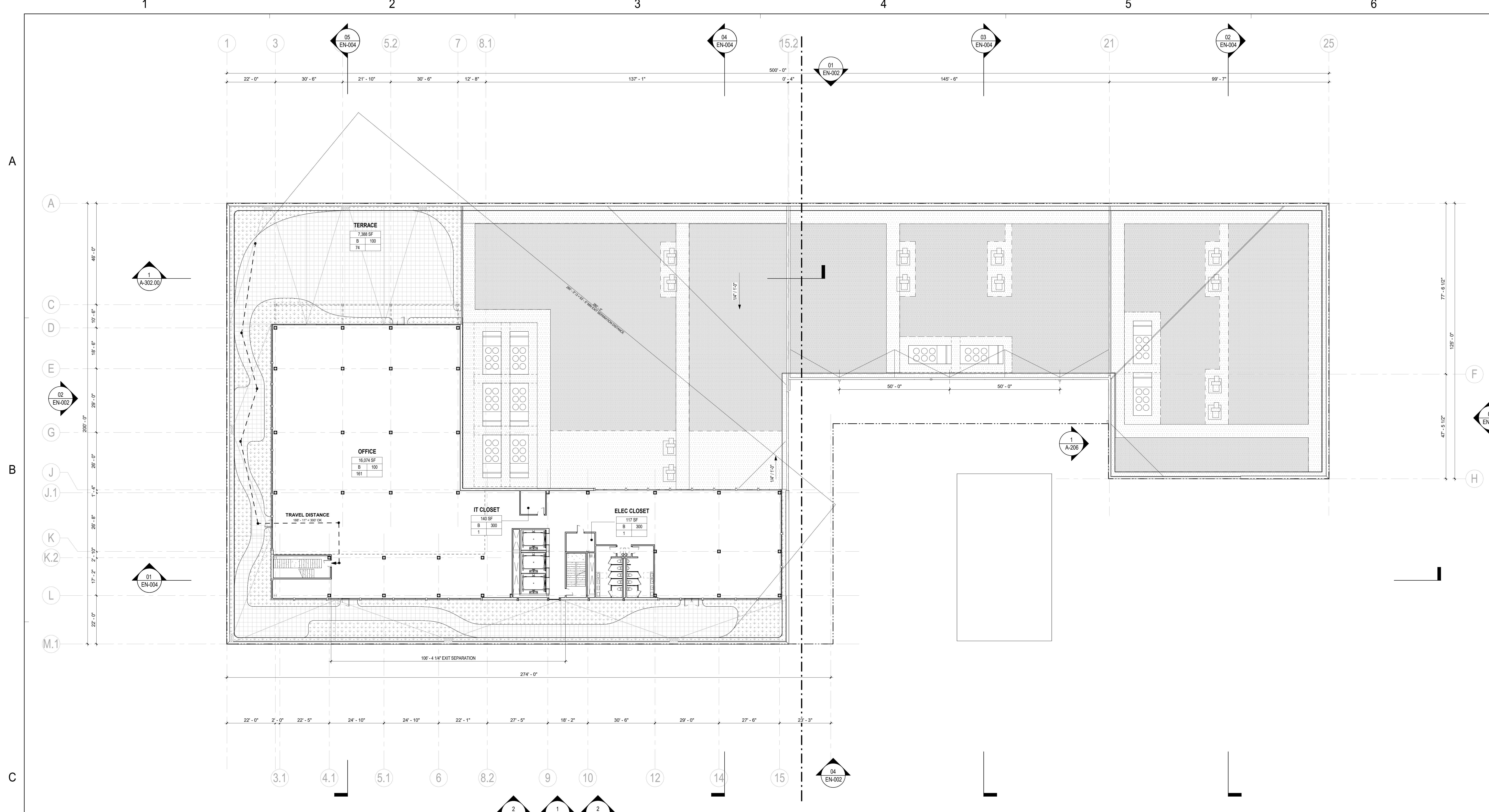
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NEW YORK, NY 10019  
T: 212.477.0267 F: 212.477.4521



<b>BUNGALOW PROJECTS RE</b> 233 BROADWAY, 10TH FLOOR NEW YORK, NY 10007 917.916.6171	CLIENT
<b>COOKFOX ARCHITECTS, BPC</b> 250 WEST 57TH STREET, 17TH FLOOR NEW YORK, NY 10107 T: 212.477.0287 F: 212.477.4521	ARCHITECT
<b>AMA GROUP</b> 825 EIGHTH AVENUE, FL18 NEW YORK, NY 10019 P: 212.364.7722	MEP ENGINEER
<b>THORNTON TOMASETTI</b> 120 BROADWAY NEW YORK, NY 10271-0016 T: 1-917.661.7800	STRUCTURAL ENGINEER
<b>LANGAN ENGINEERING</b> 300 WEST 31ST STREET, 8TH FLOOR NEW YORK, NY 10001-2727 T: 212.479.5400	GEOTECHNICAL CONSULTANT
<b>PHILIP HABB &amp; ASSOCIATES</b> 432 PARK AVENUE SOUTH, NEW YORK, NY 10016 T: 212.329.5656	CIVIL & PARKING CONSULTANT
<b>THORNTON TOMASETTI</b> 120 BROADWAY NEW YORK, NY 10271-0016 T: 1-917.661.7800	SUSTAINABILITY CONSULTANT
<b>RIZZO-BROOKBRIDGE</b> 300 BROADWAY, 5TH FLOOR NEW YORK, NY 10018 T: 212.455-9590	CODE CONSULTANT
<b>ARUP</b> 77 WATER STREET NEW YORK, NY 10005 P: 212.896.3000	ACOUSTICS
<b>THORNTON TOMASETTI</b> 120 BROADWAY NEW YORK, NY 10271-0016 T: 1-917.661.7800	EXTERIOR WALL CONSULTANT
<b>CBA ELEVATOR CONSULTANTS</b> 190 MANHATTAN STREET, SUITE 402 HACKENSACK, NJ 07601 T: 1-201.884.0911	ELEVATOR CONSULTANT
<b>THORNTON TOMASETTI</b> 120 BROADWAY NEW YORK, NY 10271-0016 T: 1-917.661.7800	FLOOD CONSULTANT

ISSUES:

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**1 FLOOR 5**  
1/16" = 1'-0"

**FLOOR 05 AREAS AND OCCUPANCY CALC - C&S**

Name	Area	Occupancy Type	Occupancy Load Factor	Occupant Load	Comments
OFFICE	16,074 SF	B	100	161	
IT CLOSET	140 SF	B	300	1	
ELEC CLOSET	117 SF	B	300	1	
Grand total: 3	16,332 SF			163	

**FLOOR 05 AREAS AND OCCUPANCY CALC - TERRACES**

Name	Area	Occupancy Type	Occupancy Load Factor	Calculated Occupant Load	Comments
TERRACE	7,388 SF	B	100	74	EXEMPT FROM ZONING PARKING CALCULATIONS
Grand total: 1	7,388 SF			74	

**FLOOR 05 - OCCUPANT GRAND TOTAL**

237
-----

**FLOOR 05 PLUMBING FIXTURE CALCULATIONS**  
NYPC SECTION 403.1

<b>TOTAL FLOOR OCCUPANCY</b>	237 PERSONS
<b>OCCUPANCY</b>	119 PER GENDER

**REQUIRED WATER CLOSETS**

OCCUPANCY TYPE	OCCUPANCY	RANGE	FIXTURES
B	119	(101-140)	5
<b>FIXTURES REQUIRED PER GENDER</b>			5
<b>TOTAL FIXTURES REQUIRED</b>	5 (2)		10

**REQUIRED LAVATORIES**

OCCUPANCY TYPE	OCCUPANCY	RANGE	FIXTURES
B	119	(76-115)	4
<b>FIXTURES REQUIRED PER GENDER</b>			4
<b>TOTAL FIXTURES REQUIRED</b>	4 (2)		8

**REQUIRED DRINKING FOUNTAINS**

OCCUPANCY TYPE	TOTAL OCCUPANCY	CALCULATION	FIXTURES
B	237	237 / 100 = 2.3	3
<b>TOTAL DRINKING FOUNTAINS REQUIRED</b>			3
<b>ACCESSIBLE DRINKING FOUNTAINS</b>	50%		2

**REQUIRED SERVICE SINKS**  
1 REQUIRED

**FIXTURE SUMMARY**

	WATER CLOSETS	LAVATORIES	DRINKING FOUNTAINS	SERVICE SINK
	MALE	FEMALE	MALE	FEMALE
REQUIRED	5	5	4	4
PROVIDED	5	5	4	4

**WALL TYPE, FIRE, TRAVEL DISTANCE**

**PARTITION LEGEND**

- GYPSUM PARTITION
- CMU PARTITION

**WALL FIRE RATING**

- 3 HR FIRE RATED PARTITION WALL
- 2 HR FIRE RATED PARTITION WALL
- 1 HR FIRE RATED PARTITION WALL

**TRAVEL DISTANCES**

- COMMON PATH OF TRAVEL
- MAX TRAVEL DISTANCE

NOTE:  
ALL PUBLIC EGRESS CORRIDORS TO BE COMPLETELY ENCLOSED IN CONSTRUCTION HAVING A MINIMUM OF 2-HOUR FIRE-RATING.

**EXIT SIGN & SPRINKLER SYMBOLS**

**EXIT SIGN SYMBOL LEGEND**

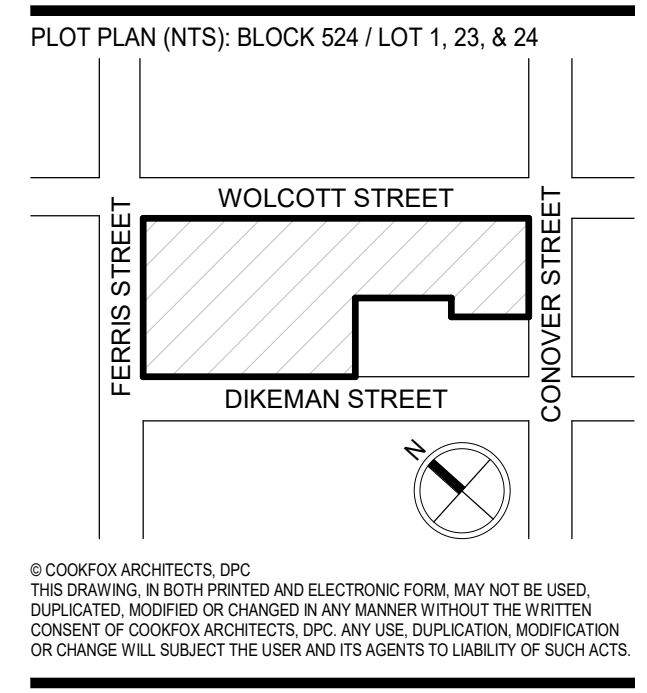
- ONE-SIDED
- DOUBLE DIRECTION
- TWO-SIDED
- SINGLE DIRECTION
- NON-DIRECTIONAL
- DENOTES WALL MOUNTED

**SPRINKLER SYMBOL LEGEND**

- SPRINKLER - CEILING - UPRIGHT/PENDENT
- SPRINKLER - CEILING - CONCEALED
- SPRINKLER - SIDEWALL - PENDENT
- SPRINKLER - SIDEWALL - CONCEALED
- SPRINKLER - "E" - EXTENDED THROW

**GENERAL NOTES:**

- ALL GRID LINES AT STRUCTURAL PRECAST SYSTEMS ARE ALIGNED TO FACE OF WALL
- ALL GRID LINES AT STRUCTURAL STEEL ARE AT CENTERLINE OF COLUMN



**PROJECT:**  
145 WOLCOTT  
BROOKLYN, NY 11231

**DRAWING TITLE:**  
OVERALL FLOOR PLAN 05

SEAL	PROJ NO: 4309
	SCALE: 1/16" = 1'-0"
	SHEET SIZE: 48"X36"
	DWG NO: A-105.00

NOT FOR CONSTRUCTION



<b>BUNGALOW PROJECTS RE</b> 233 BROADWAY, 10TH FLOOR NEW YORK, NY 10007 917.616.6171	CLIENT
<b>COOKFOX ARCHITECTS, BPC</b> 250 WEST 57TH STREET, 17TH FLOOR NEW YORK, NY 10107 T: 212.477.0267 F: 212.477.4521	ARCHITECT
<b>AMA GROUP</b> 825 EIGHTH AVENUE, FL18 NEW YORK, NY 10019 P: 212.864.7722	MEP ENGINEER
<b>THORNTON TOMASETTI</b> 120 BROADWAY NEW YORK, NY 10271-0016 T: 1-917.661.7800	STRUCTURAL ENGINEER
<b>LANGAN ENGINEERING</b> 300 WEST 31ST STREET, 8TH FLOOR NEW YORK, NY 10001-2727 T: 212.479.5400	GEOTECHNICAL CONSULTANT
<b>PHILIP HABB &amp; ASSOCIATES</b> 432 PARK AVENUE SOUTH, NEW YORK, NY 10016 T: 212.329.5656	CIVIL & PARKING CONSULTANT
<b>THORNTON TOMASETTI</b> 120 BROADWAY NEW YORK, NY 10271-0016 T: 1-917.661.7800	SUSTAINABILITY CONSULTANT
<b>RIZZO-BROOKBRIDGE</b> 300 BROADWAY, 5TH FLOOR NEW YORK, NY 10018 T: 212.495.9990	CODE CONSULTANT
<b>ARUP</b> 77 WATER STREET NEW YORK, NY 10005 P: 212.896.3000	ACOUSTICS
<b>THORNTON TOMASETTI</b> 120 BROADWAY NEW YORK, NY 10271-0016 T: 1-917.661.7800	EXTERIOR WALL CONSULTANT
<b>CBA ELEVATOR CONSULTANTS</b> 190 MANHATTAN STREET, SUITE 402 HACKENSACK, NJ 07601 T: 1-201.884.0911	ELEVATOR CONSULTANT
<b>THORNTON TOMASETTI</b> 120 BROADWAY NEW YORK, NY 10271-0016 T: 1-917.661.7800	FLOOD CONSULTANT

ISSUES:

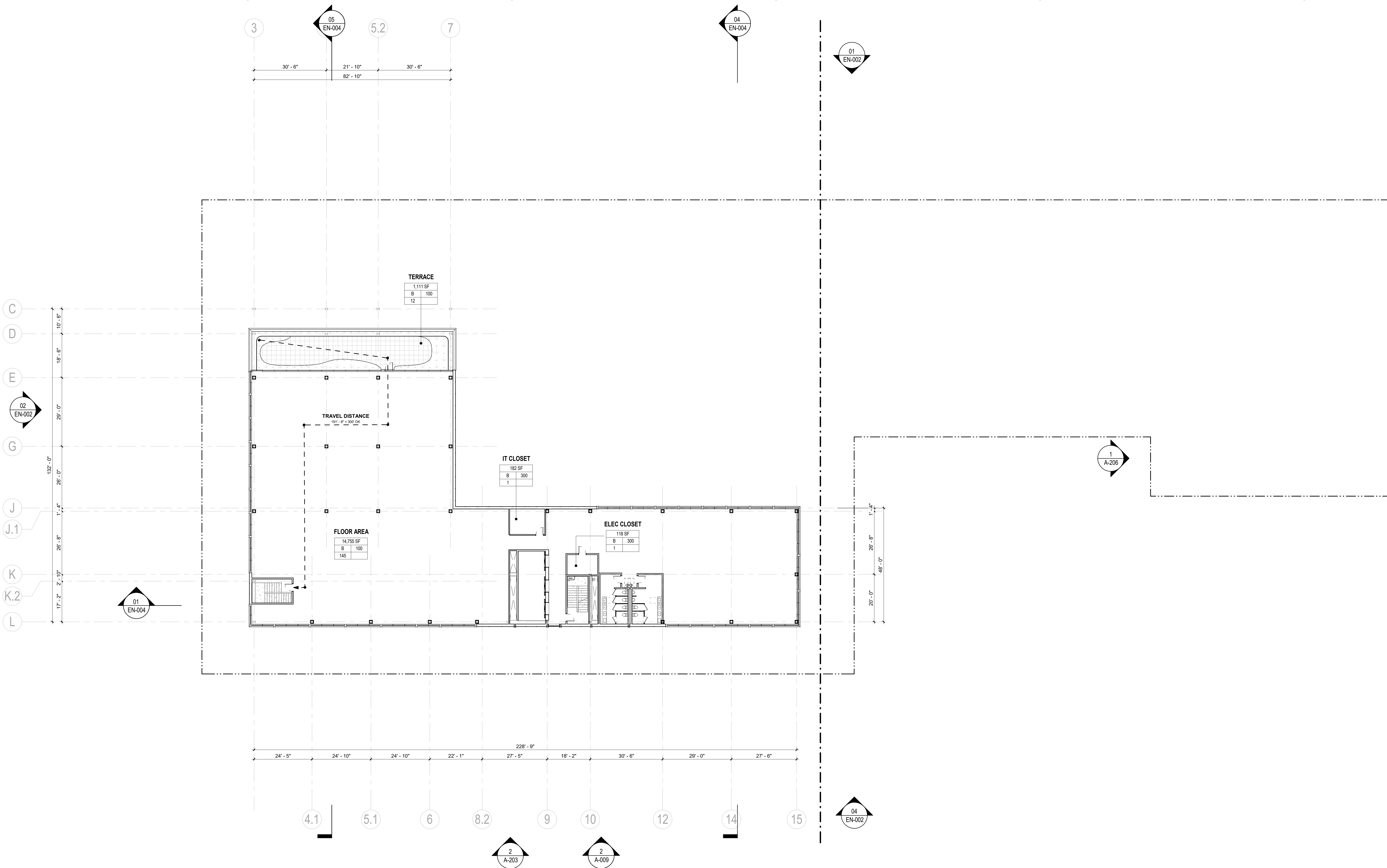
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C

D



**01 OVERALL FLOOR PLAN 06**  
1/16" = 1'-0"

FLOOR 06 AREAS AND OCCUPANCY CALC - C&S

Name	Area	Occupancy Type	Occupancy Load Factor	Occupant Load	Comments
FLOOR AREA	14,755 SF	B	100	145	
IT CLOSET	182 SF	B	300	1	
ELEC CLOSET	118 SF	B	300	1	
Grand total:	3			15,054 SF	147

FLOOR 06 AREAS AND OCCUPANCY CALC - TERRACES

Name	Area	Occupancy Type	Occupancy Load Factor	Calculated Occupant Load	Comments
TERRACE	1,111 SF	B	100	12	EXEMPT FROM ZONING PARKING CALCULATIONS
Grand total:	1			12	

FLOOR 06 - OCCUPANT GRAND TOTAL

159
-----

FLOOR 06 PLUMBING FIXTURE CALCULATIONS  
NYPC SECTION 403.1

TOTAL FLOOR OCCUPANCY	159 PERSONS
PER GENDER	80

REQUIRED WATER CLOSETS

OCCUPANCY TYPE	OCCUPANCY	RANGE	FIXTURES
B	80	(71-100)	4
FIXTURES REQUIRED PER GENDER			4
TOTAL FIXTURES REQUIRED			4 (2)

REQUIRED LAVATORIES

OCCUPANCY TYPE	OCCUPANCY	RANGE	FIXTURES
B	80	(76-115)	4
FIXTURES REQUIRED PER GENDER			4
TOTAL FIXTURES REQUIRED			4 (2)

REQUIRED DRINKING FOUNTAINS

OCCUPANCY TYPE	TOTAL OCCUPANCY	CALCULATION	FIXTURES
B	159	159 / 100 + 1.5	2
TOTAL DRINKING FOUNTAINS REQUIRED			2
ACCESSIBLE DRINKING FOUNTAINS			50% 1

REQUIRED SERVICE SINKS  
1 REQUIRED

FIXTURE SUMMARY

	WATER CLOSETS		LAVATORIES		DRINKING FOUNTAINS	SERVICE SINK
	MALE	FEMALE	MALE	FEMALE		
REQUIRED	4	4	4	4	2	1
PROVIDED	4	4	3	3	2	1

WALL TYPE, FIRE, TRAVEL DISTANCE

**PARTITION LEGEND**

- GYPSUM PARTITION
- CMU PARTITION

**WALL FIRE RATING**

- 3 HR FIRE RATED PARTITION WALL
- 2 HR FIRE RATED PARTITION WALL
- 1 HR FIRE RATED PARTITION WALL

**TRAVEL DISTANCES**

- COMMON PATH OF TRAVEL
- MAX TRAVEL DISTANCE

NOTE:  
ALL PUBLIC EGRESS CORRIDORS TO BE COMPLETELY ENCLOSED IN CONSTRUCTION HAVING A MINIMUM OF 2-HOUR FIRE-RATING.

EXIT SIGN & SPRINKLER SYMBOLS

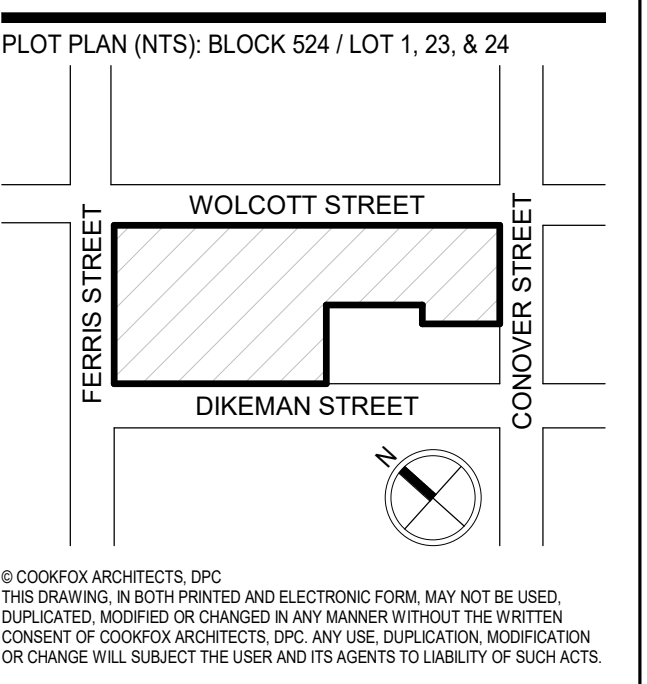
**EXIT SIGN SYMBOL LEGEND**

- ONE-SIDED
- DOUBLE DIRECTION
- TWO-SIDED
- SINGLE DIRECTION
- NON-DIRECTIONAL
- DENOTES WALL MOUNTED

**SPRINKLER SYMBOL LEGEND**

- SPRINKLER - CEILING - UPRIGHT/PENDENT
- SPRINKLER - CEILING - CONCEALED
- SPRINKLER - SIDEWALL - PENDENT
- SPRINKLER - SIDEWALL - CONCEALED
- SPRINKLER - "E" - EXTENDED THROW

GENERAL NOTES:  
\*ALL GRID LINES AT STRUCTURAL PRECAST SYSTEMS ARE ALIGNED TO FACE OF WALL  
\*ALL GRID LINES AT STRUCTURAL STEEL ARE AT CENTERLINE OF COLUMN



PROJECT:  
**145 WOLCOTT**  
BROOKLYN, NY 11231  
DRAWING TITLE:  
**OVERALL FLOOR PLAN 06**

SEAL	PROJ NO: 4309
	SCALE: 1/16" = 1'-0"
	SHEET SIZE: 48"x36"
	DWG NO: A-106.00

B SCAN STICKER

NOT FOR CONSTRUCTION

© COOKFOX ARCHITECTS, BPC  
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**ATTACHMENT 3**  
**SOIL BORING LOGS**

# LANGAN


Log of Boring **WC01A**

Sheet 1 of 1


Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/13/2024	Date Finished 6/13/2024	
Drilling Equipment Geoprobe 7822DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A		Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer	N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman John Slavin	
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer	N/A	Weight (lbs) N/A	Drop (in) N/A		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	
[Cross-hatch pattern]	N/A	Dark gray to dark brown fine SAND, trace silt, trace fine subrounded gravel, coal (moist) [FILL]	0					0.0	Langan Utility Clearance Exempted by Shareholder WC01_COMP_0-4
	N/A	End of Boring at 5.0ft.	1	M-1	Macrocore	45/60		0.0	
			2					0.4	
			3					2.3	
			4					0.1	
			5					1.8	
			6					0.1	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			7					0.1	
			8					0.1	
			9					0.1	
			10					0.1	
			11					0.1	
			12					0.1	
			13					0.1	
			14					0.1	
			15					0.1	
			16					0.1	
			17					0.1	
			18					0.1	
			19					0.1	
			20					0.1	
			21					0.1	
			22					0.1	
			23					0.1	
			24					0.1	

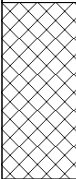
Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/13/2024	Date Finished 6/13/2024	
Drilling Equipment Geoprobe 7822DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman John Slavin		
Sampler Hammer N/A			Field Engineer Lisa Cristiano		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	
	N/A	Dark brown to black fine SAND, trace silt, brick, trace fine gravel, wood (moist) [FILL] Hard, black tar-like material (tar) [FILL]	0	M-1	Macrocore	42/60		0.0	Langan Utility Clearance Exempted by Shareholder WC01_COMP_0-4
		Dark brown to black fine SAND, trace silt, brick, trace fine gravel, wood (moist) [FILL] Hard, black tar-like material (tar) [FILL]	1					14.3	
		Dark brown to black fine SAND, trace silt, brick, trace fine gravel, wood (moist) [FILL] Hard, black tar-like material (tar) [FILL]	2					2.7	
		Dark brown to black fine SAND, trace silt, brick, trace fine gravel, wood (moist) [FILL]	3					13.5	
		Dark brown to black fine SAND, trace silt, brick, trace fine gravel, wood (moist) [FILL]	4					5.2	
		Dark brown to black fine SAND, trace silt, brick, trace fine gravel, wood (moist) [FILL]	5					4.2	
		End of Boring at 5.0ft.	6					0.9	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			7						
			8						
			9						
			10						
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			23						
			24						


Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/13/2024	Date Finished 6/13/2024	
Drilling Equipment Geoprobe 7822DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A		Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman John Slaven		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penetr-resist BL/6in	PID Reading (ppm)	
	N/A	Dark gray to dark brown fine SAND, trace fine subrounded gravel, concrete, brick (moist) [FILL]	0					0.0	Langan Utility Clearance Exempted by Shareholder WC01_COMP_0-4
		Hard, black to yellow tar-like material (tar) [FILL]	1					0.0	
		Dark gray to dark brown fine SAND, trace fine subrounded gravel, concrete, brick (moist) [FILL]	2	M-1	Macrocore	49/60		18.5	
			3					5.1	
				4				0.8	
	N/A	End of Boring at 5.0ft.	5					0.7	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			6				2.0		
			7						
			8						
			9						
			10						
			11						
			12						
			13						
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			23						
			24						

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/13/2024	Date Finished 6/13/2024	
Drilling Equipment Geoprobe 7822DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples Disturbed 1	Undisturbed 0	Core 0
Casing Diameter (in) N/A	Casing Depth (ft) N/A		Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman John Slaven		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Sampler Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	
	N/A	Dark gray to dark brown fine SAND, trace silt, fine subrounded gravel, concrete, wood (moist) [FILL]	0					0.0	Langan Utility Clearance Exempted by Shareholder
	N/A	Hard, black to yellow tar-like material (tar) [FILL]	1	M-1	Macrocore	48/60		0.2	
			2					0.1	WC01_COMP_0-4 WC01D_GRAB_3-4
			3					0.0	
			4					0.0	
			5					0.1	
			6					0.6	
			7					2.4	
		End of Boring at 5.0ft.	8					25.4	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			9						
			10						
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			23						
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Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/13/2024	Date Finished 6/13/2024	
Drilling Equipment Geoprobe 7822DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A		Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer	N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Brandon	
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer	N/A	Weight (lbs) N/A	Drop (in) N/A		


Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (ft)	Penetr-resist BL/6in	PID Reading (ppm)		
	N/A	Dark gray to dark brown fine SAND, trace silt, trace fine subangular gravel, brick, concrete (moist) [FILL]	0					0.0	Langan Utility Clearance Exempted by Shareholder  WC02_COMP-0-4  Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.	
			1					0.0		
				2						0.0
				3	M-1	Macrocore	42/60			0.0
				4						0.0
	N/A	End of Boring at 5.0ft.	5					0.0		
			6							
			7							
			8							
			9							
			10							
			11							
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			24							

# LANGAN

Log of Boring **WC02B**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/13/2024	Date Finished 6/13/2024	
Drilling Equipment Geoprobe 7822DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman Brandon		
Sampler Hammer N/A			Field Engineer Lisa Cristiano		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penet-resist BL/6in	PID Reading (ppm)	
	N/A	Light gray to dark brown fine SAND, trace silt, trace gravel, brick, concrete (moist) [FILL]	0	M-1	Macrocore	38/60		0.0	Langan Utility Clearance Exempted by Shareholder WC02_COMP-0-4
			1						
			2						
			3						
			4						
		End of Boring at 5.0ft.	5					0.0	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
6									
7									
8									
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# LANGAN

Log of Boring **WC02C**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/13/2024	Date Finished 6/13/2024	
Drilling Equipment Geoprobe 7822DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman  Brandon
Sampler 60-inch Macrocore			Field Engineer  Lisa Cristiano		
Sampler Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penet-resist BL/6in	
	N/A	Light gray CONCRETE (dry) [CONCRETE]	0					Langan Utility Clearance Exempted by Shareholder WC02_COMP-0-4
	N/A	Dark gray to light brown fine SAND, trace silt, trace fine gravel, plastic, slag (moist) [FILL]	1-4	M-1A Macrocore M-1B	48/60			
N/A	N/A	End of Boring at 5.0ft.	5					Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			6					
			7					
			8					
			9					
			10					
			11					
			12					
			13					
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			18					
			19					
			20					
			21					
			22					
			23					
			24					



# LANGAN

Log of Boring **WC02D**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/13/2024	Date Finished 6/13/2024	
Drilling Equipment Geoprobe 7822DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples Disturbed 1	Undisturbed 0	Core 0
Casing Diameter (in) N/A	Casing Depth (ft) N/A		Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Brandon		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Sampler Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	
[Cross-hatch pattern]	N/A	Reddish brown to dark gray fine SAND, trace silt, trace fine subangular gravel, brick, coal, coal ash (moist) [FILL]	0	M-1	Macrocore	50/60			0.0
			1						0.0
	N/A	Hard, black tar-like material (tar) [FILL]	2						0.0
	N/A		3						0.0
	N/A		4						4.8
			5						0.6
		End of Boring at 5.0ft.	6						222.3
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						
			21						
			22						
			23						
			24						

# LANGAN

Log of Boring **WC03A**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/14/2024	Date Finished 6/14/2024	
Drilling Equipment Geoprobe 7822DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples Disturbed 1	Undisturbed 0	Core 0
Casing Diameter (in) N/A	Casing Depth (ft) N/A		Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Chris Slaven		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Sampler Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penet-resist BL/6in	
	N/A	Light gray CONCRETE, trace fine gravel (dry) [CONCRETE]	0					Langan Utility Clearance Exempted by Shareholder WC03_COMP_0-4
	N/A	Dark brown fine SAND, trace silt, trace fine gravel, brick (moist) [FILL]	2	M-1A	Macrocore	36/60		
	N/A	End of Boring at 5.0ft.	5	M-1B				Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
	N/A		6					
			7					
			8					
			9					
			10					
			11					
			12					
			13					
			14					
			15					
			16					
			17					
			18					
			19					
			20					
			21					
			22					
			23					
			24					

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/14/2024		Date Finished 6/14/2024
Drilling Equipment Geoprobe 7822DT			Completion Depth 15.0 ft		Rock Depth Not Encountered
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples Disturbed 3		Undisturbed 0 Core 0
Casing Diameter (in) N/A		Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ 10.0		Completion $\nabla$ N/A 24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Chris Slaven		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (ft)	Penetr. resist BL/6in	PID Reading (ppm)		
	N/A	Light brown to dark gray fine SAND, trace silt, trace fine subrounded gravel, coal, coal ash, brick (moist) [FILL]	0					0.0	Langan Utility Clearance Exempted by Shareholder  WC03_COMP_0-4 WC03B-GRAB_2-3 3-ft to 3.5-ft- Black staining  6-ft to 10-ft- Black staining  10-ft to 13-ft- Petroleum-like odor, black staining  Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.	
			1					0.0		
				2				0.5		
				3	M-1	Macrocore	36/60			7.3
				4						25.7
			Light brown medium to fine SAND, trace silt, some fine subangular gravel, concrete (moist) [FILL]	5						0.0
		N/A		6	M-2A					0.4
			Dark brown to gray fine SAND, trace silt (wet) [SP-SM]	7						6.7
				8	M-2B	Macrocore	48/60			16.7
				9						19.3
				10						7.6
			Dark brown fine SAND, trace silt (wet) [SP-SM]	11						15.2
				12						18.6
				13	M-3	Macrocore	48/60			33.3
				14						11.5
		End of Boring at 15.0ft.	15					15.7		
			16					19.0		
			17					22.0		
			18					20.1		
			19					11.2		
			20					19.5		
			21					9.1		
			22					2.2		
			23							
			24							

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/14/2024	Date Finished 6/14/2024	
Drilling Equipment Geoprobe 7822DT			Completion Depth 15.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples Disturbed 3	Undisturbed 0	Core 0
Casing Diameter (in) N/A	Casing Depth (ft) N/A		Water Level (ft.) First $\nabla$ 10.0	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Chris Slaven		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penetr. resist BL/6in	
	N/A	Reddish brown to dark brown fine SAND, trace silt, trace fine subangular gravel, brick, metal (moist) [FILL]	0					Langan Utility Clearance Exempted by Shareholder WC03_COMP_0-4  WC03_COMP_0-4 3.5-ft to 4-ft- Petroleum-like odor, black staining  6-ft to 9-ft - Neon green liquid pooling, positive sheen test, oil blebs  9-ft to 10-ft- petroleum-like odor, black staining  10-ft to 13.5-ft- Petroleum-like odor, black staining, positive sheen test 10-ft to 11-ft- pooled product  Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			1					
			2					
			3	M-1	Macrocore	58/60		
			4					
			5					
			6	M-2A	Macrocore	58/60		
			7					
			8	M-2B	Macrocore	58/60		
			9					
			10	M-2C	Macrocore	58/60		
			11					
			12	M-3	Macrocore	50/60		
			13					
			14					
		15						
		End of Boring at 15.0ft.	16					
			17					
			18					
			19					
			20					

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/14/2024	Date Finished 6/14/2024	
Drilling Equipment Geoprobe 7822DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman Chris Slaven		
Sampler Hammer N/A			Field Engineer Lisa Cristiano		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penet-resist BL/6in	PID Reading (ppm)	
	N/A	Light gray CONCRETE, trace fine gravel (dry) [CONCRETE]	0					0.0	Langan Utility Clearance Exempted by Shareholder
	N/A	Dark brown to gray fine SAND, trace silt, trace fine subrounded gravel, coal (moist) [FILL]	2	M-1A	Macrocore	46/60		0.0	
	N/A		3					0.0	WC03_COMP_0-4  3.5-ft to 4-ft- Petroleum-like odor, black staining
	N/A	End of Boring at 5.0ft.	5	M-1B				3.1	
			6						Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						
			21						
			22						
			23						
			24						

# LANGAN

Log of Boring **WC04A**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/20/2024	Date Finished 6/20/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 15.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples Disturbed 3	Undisturbed 0	Core 0
Casing Diameter (in) N/A	Casing Depth (ft) N/A		Water Level (ft.) First $\nabla$ 10.0	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman John Slavin		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penetr. resist BL/6in	PID Reading (ppm)	
	N/A	CONCRETE	0	PD-1 A	DIS	0/6		0.0	Langan Utility Clearance Exempted by Shareholder
	N/A	Dark brown fine SAND, trace silt, trace fine gravel, brick, wood (moist) [FILL]	1	PD-1 B				0.0	WC04_COMP_0-4
	N/A		2					0.2	
	N/A		3	M-1	Macrocore	45/54		0.5	WC04_COMP_0-4
	N/A		4					0.0	
	N/A	Dark brown fine SAND, trace silt, trace fine subrounded gravel (moist) [SP-SM]	5					0.0	
	N/A		6					0.9	5.5-ft to 8-ft- Petroleum-like odor, black staining, negative sheen test
	N/A		7					24.7	
	N/A		8	M-2	Macrocore	36/60		45.7	
	N/A		9					70.2	
	N/A		10					46.4	
	N/A	Dark brown fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	10					97.0	
	N/A		11					43.3	10-ft to 10.5-ft- Petroleum-like odor
	N/A		12					15.0	
	N/A		13	M-3	Macrocore	45/60		1.5	
	N/A		14					0.8	
	N/A		15					0.5	
	N/A	End of Boring at 15.0ft.	15					0.6	
	N/A		16					0.9	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
	N/A		17					0.4	
	N/A		18						
	N/A		19						
	N/A		20						
	N/A		21						
	N/A		22						
	N/A		23						
	N/A		24						

# LANGAN

Log of Boring

**WC04B**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/20/2024	Date Finished 6/20/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 15.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples Disturbed 3	Undisturbed 0	Core 0
Casing Diameter (in) N/A	Casing Depth (ft) N/A		Water Level (ft.) First $\nabla$ 10.0	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman John Slavin		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (ft)	Penetr. resist BL/6in		PID Reading (ppm)
	N/A	ASPHALT	0	PD-1 A	DIS	0/6		2.0	Langan Utility Clearance Exempted by Shareholder WC04_COMP_0-4 WC04B_GRAB_2-4 7-ft to 8-ft- Creosote-like odor 10-ft to 10.5-ft- Creosote-like odor Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
	N/A	Tan to light brown fine SAND, trace silt, trace angular gravel, coal, coal ash, concrete (moist) [FILL]	1	PD-1 B				7.5	
	N/A		2					2.7	
	N/A		3	M-1	Macrocore	45/54		3.8	
	N/A		4					2.2	
	N/A		5					17.1	
	N/A	Tan to light brown fine SAND, trace silt, trace gravel, coal, coal ash, concrete (moist) [FILL]	6	M-2A				2.0	
	N/A	Light brown to black fine SAND, trace silt (moist) [SP-SM]	7					1.4	
	N/A		8	M-2B	Macrocore	36/60		1.6	
	N/A		9					0.9	
	N/A		10					0.9	
	N/A	Gray to dark brown fine SAND, trace silt (moist) [SP-SM]	11					0.4	
	N/A		12	M-3	Macrocore	30/60		40.7	
	N/A		13					36.1	
	N/A		14					111.5	
	N/A	End of Boring at 15.0ft.	15					7.5	
	N/A		16					13.5	
	N/A		17					1.3	
	N/A		18					0.8	
	N/A		19					0.0	
	N/A		20					0.0	
	N/A		21						
	N/A		22						
	N/A		23						
	N/A		24						

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/20/2024		Date Finished 6/20/2024
Drilling Equipment Geoprobe 6011DT			Completion Depth 15.0 ft		Rock Depth Not Encountered
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples Disturbed 3	Undisturbed 0	Core 0
Casing Diameter (in) N/A		Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ 10.0		Completion $\nabla$ N/A
Casing Hammer N/A		Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman John Slavin	
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Sampler Hammer N/A		Weight (lbs) N/A	Drop (in) N/A		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (ft)	Penet-resist BL/6in		PID Reading (ppm)
	N/A	CONCRETE	0	PD-1 A	DIST	0/6		0.0	Langan Utility Clearance Exempted by Shareholder
	N/A	Dark brown to gray fine SAND, trace silt, trace fine subangular gravel, brick, coal, coal ash, wood (moist) [FILL]	1	PD-1 B				0.4	
	N/A		2					0.0	WC04_COMP_0-4
	N/A		3	M-1	Macrocore	48/54		0.1	3-ft to 4-ft- Creosote-like odor on wood
	N/A		4					0.1	
	N/A	Dark brown to gray fine SAND, trace silt, trace fine gravel, brick, coal, coal ash, wood (moist) [FILL]	5					7.7	
	N/A		6					7.4	
	N/A		7					0.0	
	N/A		8	M-2	Macrocore	38/60		105.3	7-ft to 8.5-ft- Creosote-like odor, black staining
	N/A		9					0.3	
	N/A	Dark brown to gray fine SAND, trace silt, trace fine gravel, brick, coal, coal ash (wet) [FILL]	10					0.1	
	N/A		11	M-3A				12.0	10-ft to 12-ft- Creosote-like odor
	N/A		12					54.4	
	N/A	Dark brown fine SAND, trace silt (wet) [SP-SM]	13			60/60		9.2	
	N/A		14	M-3B				10.3	
	N/A		15					4.6	
	N/A	End of Boring at 15.0ft.	16					2.5	
	N/A		17					1.3	
	N/A		18					0.2	
	N/A		19					0.8	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
	N/A		20						



# LANGAN


Log of Boring **WC04D**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/20/2024		Date Finished 6/20/2024
Drilling Equipment Geoprobe 6011DT			Completion Depth 15.0 ft		Rock Depth Not Encountered
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples Disturbed 3	Undisturbed 0	Core 0
Casing Diameter (in) N/A		Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ 10.0		Completion $\nabla$ N/A
Casing Hammer N/A		Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman John Slavin	
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Sampler Hammer N/A		Weight (lbs) N/A	Drop (in) N/A		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (ft)	Penetr-resist BL/6in		PID Reading (ppm)
	N/A		0						
		Brownish gray fine SAND, trace silt, trace fine angular gravel, brick, coal, wood (moist) [FILL]	1	PD-1 A	DIST	0/12		0.3	Langan Utility Clearance Exempted by Shareholder  WC04_COMP_0-4
			2	PD-1 B				0.3	
			3	M-3	Macrocore	33/48		0.3	
			4					2.6	
			5					15.4	
	N/A	Dark brown fine SAND, trace silt, trace fine angular gravel, brick (moist) [FILL]	5	M-1A				26.2	6-ft to 8-ft- Petroleum-like odor
	N/A	Dark gray fine SAND, trace silt, coarse gravel, (mica) (moist) [SP-SM]	6					9.4	
			7					3.3	
			8	M-1B	Macrocore	36/60		73.7	
			9					91.7	
			10					64.9	
			11					58.9	
			12					12.0	
			13						
			14						
	N/A	Dark gray to brown fine SAND, trace silt (wet) [SP-SM]	15					3.8	10-ft to 14-ft- Petroleum-like odor, black staining
			16					4.5	
			17					30.2	
			18					16.1	
			19					18.0	
			20					33.8	
			21					15.1	
			22					7.5	
			23					4.0	
			24					1.7	
		End of Boring at 15.0ft.	15					1.4	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			16						
			17						
			18						
			19						
			20						
			21						
			22						
			23						
			24						

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/13/2024	Date Finished 6/18/2024	
Drilling Equipment Geoprobe 7822DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman John Slaven		
Sampler Hammer N/A			Field Engineer Lisa Cristiano		


Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)		
	N/A	Dark brown fine SAND, trace silt, trace fine subrounded gravel, concrete, brick, slag (moist) [FILL]	0					0.0	Langan Utility Clearance Exempted by Shareholder WC05_COMP_0-4 WC05A_GRAB_1-2	
			1					0.0		
			2	M-1	Macrocore	36/60				0.0
			3							0.0
			4							0.0
	N/A	End of Boring at 5.0ft.	5						Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.	
			6							
			7							
			8							
			9							
			10							
			11							
			12							
			13							
			14							
			15							
			16							
			17							
			18							
			19							
			20							
			21							
			22							
			23							
			24							

# LANGAN


Log of Boring **WC05B**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/13/2024	Date Finished 6/18/2024	
Drilling Equipment Geoprobe7822DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman John Slaven		
Sampler Hammer N/A			Field Engineer Lisa Cristiano		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penetr. resist BL/6in	PID Reading (ppm)	
	N/A	Dark brown to reddish brown fine SAND, trace silt, trace fine subrounded gravel, concrete, brick (moist) [FILL]	0	M-1	Macrocore	42/60		0.0 0.0 0.0 0.0 0.0 0.0	Langan Utility Clearance Exempted by Shareholder WC05_COMP_0-4
			1						
			2						
			3						
			4						
		End of Boring at 5.0ft.	5					Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.	
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/13/2024	Date Finished 6/18/2024	
Drilling Equipment Geoprobe 7822DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman John Slaven		
Sampler Hammer N/A			Field Engineer Lisa Cristiano		


Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)		
	N/A	Dark gray to reddish brown fine SAND, trace silt, trace fine subrounded gravel, brick, (asphalt) (moist) [FILL]	0					0.0	Langan Utility Clearance Exempted by Shareholder  WC05_COMP_0-4	
			1					0.0		
				2						0.0
				3	M-1	Macrocore	48/60			0.0
				4						0.0
	N/A	End of Boring at 5.0ft.	5					0.0	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.	
			6					0.0		
			7					0.0		
			8					0.0		
			9					0.0		
			10					0.0		
			11					0.0		
			12					0.0		
			13					0.0		
			14					0.0		
			15					0.0		
			16					0.0		
			17					0.0		
			18					0.0		
			19					0.0		
			20					0.0		
			21					0.0		
			22					0.0		
			23					0.0		
			24					0.0		

# LANGAN

Log of Boring **WC05D**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/13/2024	Date Finished 6/13/2024	
Drilling Equipment Geoprobe 7822DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman John Slaven		
Sampler Hammer N/A			Field Engineer Lisa Cristiano		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penetr-resist BL/6in	PID Reading (ppm)	
	N/A	Dark gray to brown fine SAND, trace silt, trace fine subrounded gravel, metal, brick (moist) [FILL]	0	M-1	Macrocore	42/60		0.0 0.0 0.0 0.0 0.0 0.0	Langan Utility Clearance Exempted by Shareholder WC05_COMP_0-4  WC05_COMP_0-4
	1								
	2								
	3								
	4								
N/A	End of Boring at 5.0ft.	5						Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.	
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/18/2024	Date Finished 6/18/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A		Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Chris Slaven		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

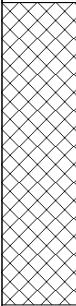
Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	
[Cross-hatch pattern]	N/A	Dark gray fine SAND, trace silt, trace fine gravel, brick, concrete, slag (moist) [FILL]	0					1.4 0.3	Langan Utility Clearance Exempted by Shareholder WC06_COMP_0-4  WC06A_GRAB_3-4
	N/A	Tacky, black tar-like material (tar) [FILL]	3	M-1	Macrocore	44/60		0.0 0.0 0.8 0.0 8.2 14.7	
	N/A	End of Boring at 5.0ft.	5						Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						
			21						
			22						
			23						
			24						

# LANGAN

Log of Boring **WC06B**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/18/2024		Date Finished 6/18/2024
Drilling Equipment Geoprobe 6011DT			Completion Depth 5.0 ft		Rock Depth Not Encountered
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A	Casing Depth (ft) N/A		Water Level (ft.) First ∇ N/A	Completion ∇ N/A	24 HR. ∇ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Chris Slaven		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Sampler Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft) N/A	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penetr-resist BL/6in	PID Reading (ppm)	
	N/A	Dark gray fine SAND, trace silt, trace fine gravel, concrete (moist) [FILL]	0	M-1 Macrocore	32/60			0.0	Langan Utility Clearance Exempted by Shareholder WC06_COMP_0-4
			1					0.0	
			2					0.0	
			3					0.0	
			4					0.0	
		End of Boring at 5.0ft.	5					0.0	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/18/2024		Date Finished 6/18/2024
Drilling Equipment Geoprobe 6011DT			Completion Depth 15.0 ft		Rock Depth Not Encountered
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples Disturbed 3		Undisturbed 0 Core 0
Casing Diameter (in) N/A		Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ 10.0		Completion $\nabla$ N/A 24 HR. $\nabla$ N/A
Casing Hammer N/A		Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Brandon	
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Sampler Hammer N/A		Weight (lbs) N/A	Drop (in) N/A		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penet-resist BL/6in	PID Reading (ppm)	
[Cross-hatched pattern]	N/A	Dark gray fine SAND, trace silt, trace fine gravel, brick, concrete (moist) [FILL]	0					0.0	Langan Utility Clearance Exempted by Shareholder  WC06_COMP_0-4  WC06_COMP_4-9
			1					0.0	
			2					0.6	
			3	M-1	Macrocore	54/60		0.9	
			4					0.1	
			5					0.0	
			6					0.1	
			7					18.8	
			8	M-2	Macrocore	28/60		0.8	
			9					1.1	
[Dotted pattern]	N/A	Dark gray fine SAND, trace silt, trace fine gravel, brick (moist) [FILL]	10					2.3	5.5-ft to 7.5-ft- Citrus-like odor, black to yellow staining, dry/powdery to the touch, solid  10-ft to 12-ft- Petroleum-like odor, black staining, negative sheen test
			11					5.6	
			12					7.1	
			13	M-3	Macrocore	32/60		7.2	
			14					1.3	
[Blank]	N/A	Dark gray fine SAND, trace silt, trace fine gravel (wet) [SP-SM]	15					0.8	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			16						
			17						
			18						
			19						
			20						
		End of Boring at 15.0ft.							



# LANGAN

Log of Boring

**WC06D**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/18/2024		Date Finished 6/18/2024
Drilling Equipment Geoprobe 7822DT			Completion Depth 15.0 ft		Rock Depth Not Encountered
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples Disturbed 3		Undisturbed 0 Core 0
Casing Diameter (in) N/A		Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ 10.0		Completion $\nabla$ N/A 24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Brandon		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft) N/A	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (ft)	Penetr. resist BL/6in	PID Reading (ppm)		
	N/A	Dark gray to reddish brown fine SAND, trace silt, trace fine gravel, concrete, brick (moist) [FILL]	0					0.0	Langan Utility Clearance Exempted by Shareholder	
			1					0.0		
			2					0.0		WC06_COMP_0-4
			3	M-1	Macrocore	42/60		0.0		
			4					0.2		
	N/A	Dark gray fine SAND, brick, trace silt, trace fine gravel, wood (moist) [FILL]	5					0.0	WC06D_5 WC06_COMP_4-9	
			6	M-2A				5.6		
	N/A	Dark gray fine SAND, trace silt (moist) [SP-SM]	6					26.5	6-ft to 8-ft- Tar-like odor, black staining	
			7					25.7		
			8	M-2B	Macrocore	36/60		28.3		
			9					20.9		
			10					16.0		WC06D_GRAB_8-9
			11					4.7		WC18_COMP_9-13
			12					60.9		
			13	M-3	Macrocore	40/60		5.1		
	N/A	End of Boring at 15.0ft.	14					19.5	11-ft to 13-ft- Petroleum-like odor, black staining, positive sheen test WC06D_GRAB_11-12	
			15					47.9		
			16					6.0		
			17					0.5		
			18							
			19							
			20							
			21							
			22							
			23							
			24							

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/18/2024	Date Finished 6/18/2024	
Drilling Equipment Geoprobe 7822DT			Completion Depth 15.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples Disturbed 3	Undisturbed 0	Core 0
Casing Diameter (in) N/A	Casing Depth (ft) N/A		Water Level (ft.) First $\nabla$ 10.0	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Brandon		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft) N/A	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penetr. resist BL/6in	
	N/A	Dark brown to dark gray fine SAND, trace silt, trace fine gravel, brick, wood, concrete (moist) [FILL]	0				0.0	Langan Utility Clearance Exempted by Shareholder  WC06_COMP_0-4  3.5-ft to 4-ft- Citrus-like odor, black to yellow staining, dry/powdery to the touch  WC06_COMP_4-9  WC06_COMP_4-9  12-ft to 14-ft- Petroleum-like odor  Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
		1					0.0	
		2					0.5	
		3	M-1	Macrocore	54/60		4.9	
		4					1.2	
		5		Hard, black tar-like material (tar) [FILL]			0.5	
		6		Dark brown to dark gray fine SAND, trace silt, trace fine gravel, brick, wood, concrete (moist) [FILL]			2.2	
		7	M-2A	Macrocore	48/60		1.4	
		8		Dark brown fine SAND, trace silt (moist) [SP-SM]			1.9	
		9	M-2B	Macrocore	48/60		0.6	
		10		Dark brown fine SAND, trace silt, trace fine gravel (moist) [SP-SM]			0.3	
		11					8.6	
		12	M-3	Macrocore	48/60		10.6	
		13					2.9	
		14					0.4	
15		End of Boring at 15.0ft.			0.4			
16					0.3			
17					0.0			
18					0.0			
19					13.5			
20					61.7			
21					10.0			
22					9.2			
23					56.5			
24					52.3			

# LANGAN

Log of Boring

**WC06F**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/18/2024	Date Finished 6/18/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 15.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples Disturbed 3	Undisturbed 0	Core 0
Casing Diameter (in) N/A	Casing Depth (ft) N/A		Water Level (ft.) First $\nabla$ 10.0	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Brandon		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Sampler Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penetr-resist BL/6in	PID Reading (ppm)	
[Cross-hatch pattern]	N/A	Dark brown fine SAND, trace silt, trace fine gravel, concrete, brick (moist) [FILL]	0					0.0	Langan Utility Clearance Exempted by Shareholder
			1					0.0	
			2					0.0	
			3	M-1	Macrocore	42/60		0.0	
			4					0.0	
			5					0.0	
			6					0.0	
			7					0.0	
			8	M-2	Macrocore	24/60		0.0	
			9					0.0	
		10	M-3A	Macrocore			0.0	WC06_COMP_4-9  WC18_COMP_9-13	
	N/A	Dark brown fine SAND, trace silt, trace fine gravel, concrete, brick (moist) [FILL]	11				0.0		
		Dark brown fine SAND, trace silt, trace fine gravel (wet) [SP-SM]	12				5.6		
			13	M-3B	Macrocore	50/60	0.2		
			14				0.1		
			15				0.0		
			16				0.1		
			17				0.1		
			18				0.0		
			19				0.0		
			20				0.0		
			21				0.0		
			22				0.0		
			23				0.0		
			24				0.0		
	N/A	End of Boring at 15.0ft.	15					Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.	
			16						
			17						
			18						
			19						
			20						
			21						
			22						
			23						
			24						

# LANGAN

Log of Boring **WC07A**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/19/2024	Date Finished 6/19/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0 Core 0
Casing Diameter (in) N/A	Casing Depth (ft) N/A		Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Brandon		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Sampler Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (ft)	Penetr. resist BL/6in		PID Reading (ppm)
	N/A	CONCRETE	0	PD-1 A	DIS	0/6		0.0	Langan Utility Clearance Exempted by Shareholder WC07_COMP_0-4
	N/A	Brown fine SAND, trace silt, trace fine gravel, brick, rubber (moist) [FILL]	1	PD-1 B				0.0	
			2					0.0	
			3	M-1	Macrocore	24/54		0.2	
	N/A	End of Boring at 5.0ft.	5					0.0	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						
			21						
			22						
			23						
			24						

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/19/2024	Date Finished 6/19/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 10.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 2	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman Brandon		
Sampler Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	Field Engineer Lisa Cristiano

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penetr. resist BL/6in	PID Reading (ppm)	
[Cross-hatch pattern]	N/A	Brown SAND, trace silt, trace fine gravel, coal, coal ash (moist) [FILL]	0					0.0	Langan Utility Clearance Exempted by Shareholder
			1					0.0	
[Dotted pattern]	N/A	Brown SAND, trace silt, trace fine gravel, coal, coal ash, brick (moist) [FILL]	2	M-1	Macrocore	32/60		0.0	WC07_COMP_0-4
			3					0.0	
[Dotted pattern]	N/A	Light brown to gray fine SAND, trace silt (moist) [SP-SM]	4					0.0	WC07_COMP_4-9
			5	M-2A				4.4	
[Dotted pattern]	N/A		6					12.4	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			7	M-2B	Macrocore	36/60		21.8	
		End of Boring at 10.0ft.	8					29.1	
			9					27.1	
			10					20.3	
			11					19.6	
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						
			21						
			22						
			23						
			24						

# LANGAN

Log of Boring **WC07C**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/19/2024		Date Finished 6/19/2024
Drilling Equipment Geoprobe 6011DT			Completion Depth 10.0 ft		Rock Depth Not Encountered
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples Disturbed 2		Undisturbed 0 Core 0
Casing Diameter (in) N/A		Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A		Completion $\nabla$ N/A
Casing Hammer N/A		Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Brandon	
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Sampler Hammer N/A		Weight (lbs) N/A	Drop (in) N/A		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	
	N/A	CONCRETE	0	PD-1 A	DIS	0/6		0.0	Langan Utility Clearance Exempted by Shareholder WC07_COMP_0-4
	N/A	Dark gray fine SAND, trace silt, trace fine gravel, brick, coal, coal ash (moist) [FILL]	1	PD-1 B				0.0	
	N/A		2					0.0	
	N/A		3	M-1	Macrocore	20/54		0.0	
	N/A	Dark gray fine SAND, trace silt, trace fine gravel, brick, coal, coal ash (moist) [FILL]	5					1.4	WC07_COMP_4-9
	N/A		6					1.5	
	N/A		7					55.1	
	N/A		8	M-2	Macrocore	30/60		30.7	
	N/A		9					37.1	
	N/A	End of Boring at 10.0ft.	10					10.5	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
	N/A		11						
	N/A		12						
	N/A		13						
	N/A		14						
	N/A		15						
	N/A		16						
	N/A		17						
	N/A		18						
	N/A		19						
	N/A		20						
	N/A		21						
	N/A		22						
	N/A		23						
	N/A		24						

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/19/2024	Date Finished 6/19/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 10.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 2	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First N/A	Completion 24 HR. N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Brandon		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)	
	N/A	Black asphalt, trace gravel [ASPHALT]	0						Langan Utility Clearance Exempted by Shareholder WC07_COMP_0-4
	N/A	Dark gray fine SAND, coal, trace silt, trace fine gravel, wood, brick (moist) [FILL]	1					0.0	
			2					0.0	
			3	M-1	Macrocore	27/48		0.1	
			4					0.0	
			5					0.0	
		Dark brown fine SAND, trace silt, trace fine gravel, wood (moist) [FILL]	6					1.9	
			7					0.9	
			8	M-2	Macrocore	40/60		14.8	
			9					5.1	
	N/A	End of Boring at 10.0ft.	10					1.8	WC07_COMP_4-9
			11						Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						
			21						
			22						
			23						
			24						

# LANGAN

Log of Boring **WC07E**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/19/2024	Date Finished 6/19/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 10.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 2	Undisturbed 0 Core 0
Casing Diameter (in) N/A	Casing Depth (ft) N/A		Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Brandon		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penetr. resist BL/6in	PID Reading (ppm)	
	N/A	ASPHALT	0	PD-1 A	DIS	0/6		0.0	Langan Utility Clearance Exempted by Shareholder
	N/A	Dark brown fine SAND, trace silt, trace fine gravel, concrete, brick (moist) [FILL]	1	PD-1 B				0.0	WC07E_GRAB_0-2
			2					2.4	
			3	M-1	Macrocore	36/54		8.6	
			4					4.5	WC07_COMP_0-4
			5					1.9	
		Dark brown fine SAND, trace silt, trace fine gravel, coal, brick, coal ash (moist) [FILL]	6					1.4	
			7					0.3	
			8	M-2	Macrocore	36/60		0.8	WC07E_GRAB_6-8
			9					1.5	
			10					9.5	WC07_COMP_4-9
	N/A	End of Boring at 10.0ft.	11					37.6	
			12					24.1	
			13					24.0	
			14						
			15						
			16						
			17						
			18						
			19						
			20						
			21						
			22						
			23						
			24						Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.



Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/14/2024	Date Finished 6/14/2024	
Drilling Equipment Geoprobe 7822DT			Completion Depth 10.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 2	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman Chris Slaven		
Sampler Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	Field Engineer Lisa Cristiano

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penet-resist BL/6in	
	N/A	Tannish gray CONCRETE, trace gravel (dry) [CONCRETE]	0					Langan Utility Clearance Exempted by Shareholder WC08_COMP_0-4
	N/A	Dark brown to gray fine SAND, trace silt, trace fine gravel, brick (moist) [FILL]	1	M-1A	Macrocore	54/60		
	N/A	Gray to dark brown fine SAND, trace silt, trace fine subrounded gravel, brick, wood (moist) [FILL]	2					WC20_COMP_4-9
	N/A	Dark gray to dark brown fine SAND, trace silt (moist) [SP-SM]	3	M-1B	Macrocore	48/60		
	N/A	Dark gray to dark brown fine SAND, trace silt (moist) [SP-SM]	4					WC20_COMP_4-9
	N/A	End of Boring at 10.0ft.	5	M-2A	Macrocore	48/60		
	N/A	End of Boring at 10.0ft.	6					WC20_COMP_4-9 8.5-ft to 9-ft- Petroleum-like odor
	N/A	End of Boring at 10.0ft.	7	M-2B	Macrocore	48/60		
	N/A	End of Boring at 10.0ft.	8					Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
	N/A	End of Boring at 10.0ft.	9					
	N/A	End of Boring at 10.0ft.	10					
	N/A	End of Boring at 10.0ft.	11					
	N/A	End of Boring at 10.0ft.	12					
	N/A	End of Boring at 10.0ft.	13					
	N/A	End of Boring at 10.0ft.	14					
	N/A	End of Boring at 10.0ft.	15					
	N/A	End of Boring at 10.0ft.	16					
	N/A	End of Boring at 10.0ft.	17					
	N/A	End of Boring at 10.0ft.	18					
	N/A	End of Boring at 10.0ft.	19					
	N/A	End of Boring at 10.0ft.	20					
	N/A	End of Boring at 10.0ft.	21					
	N/A	End of Boring at 10.0ft.	22					
	N/A	End of Boring at 10.0ft.	23					
	N/A	End of Boring at 10.0ft.	24					
	N/A	End of Boring at 10.0ft.						

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/14/2024	Date Finished 6/14/2024	
Drilling Equipment Geoprobe 7822DT			Completion Depth 15.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples 3	Disturbed 0	Undisturbed 0
Casing Diameter (in) N/A	Casing Depth (ft) N/A		Water Level (ft.) First $\nabla$ 10.0	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Chris Slaven		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (ft)	Penetr-resist BL/6in		PID Reading (ppm)
	N/A	Tannish white CONCRETE, trace gravel (dry) [CONCRETE]	0					Langan Utility Clearance Exempted by Shareholder  WC08_COMP_0-4  5-ft to 6-ft- Dark gray to black staining WC20_COMP_4-9 6-ft to 8-ft- Gasoline-like odor, dark gray staining, reddish-brown staining on liners WC20_COMP_4-9 WC08B_GRAB_6-7  10-ft to 13-ft- Petroleum-like odor, black staining, negative sheen test  Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.	
	N/A	Dark gray fine SAND, trace silt, trace fine gravel, brick, wood (moist) [FILL]	1	M-1A	Macrocore	48/60			0.0
	N/A	Black fine SAND, trace silt, some fine gravel, slag (moist) [FILL]	2						0.0
	N/A	Dark brown to dark gray fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	3						0.0
	N/A	Dark brown to dark gray fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	4	M-1B	Macrocore				0.0
	N/A	Dark brown to dark gray fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	5						1.4
	N/A	Dark brown to dark gray fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	6	M-2A	Macrocore				4.3
	N/A	Dark brown to dark gray fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	7						8.1
	N/A	Dark brown to dark gray fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	8	M-2B	Macrocore	36/60			24.2
	N/A	Dark brown to dark gray fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	9						80.0
	N/A	Dark brown to dark gray fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	10						33.2
	N/A	Dark brown to dark gray fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	11						32.6
	N/A	Dark brown to dark gray fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	12	M-3	Macrocore	50/60			65.1
	N/A	Dark brown to dark gray fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	13						17.0
	N/A	Dark brown to dark gray fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	14						6.7
N/A	End of Boring at 15.0ft.	15					28.9		
N/A		16					19.6		
N/A		17					19.2		
N/A		18					20.0		
N/A		19					8.6		
N/A		20					4.6		
N/A		21					2.2		
N/A		22							
N/A		23							
N/A		24							

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/14/2024		Date Finished 6/14/2024
Drilling Equipment Geoprobe 7822DT			Completion Depth 15.0 ft		Rock Depth Not Encountered
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples Disturbed 3		Undisturbed 0 Core 0
Casing Diameter (in) N/A		Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ 10.0		Completion $\nabla$ N/A 24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Chris Slaven		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (ft)	Penetr. resist BL/6in		PID Reading (ppm)
	N/A	Tannish white CONCRETE, trace gravel (dry) [CONCRETE]	0					0.0	Langan Utility Clearance Exempted by Shareholder  WC08_COMP_0-4 WC08C_GRAB_2-3 2.5-ft to 4-ft- Petroleum-like odor, black staining, positive sheen test 3-ft- product WC08_COMP_0-4  6-ft to 8-ft- Petroleum-like odor, black staining             Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
	N/A	Dark brown to black fine SAND, trace silt, trace fine gravel, wood (moist) [FILL]	1	M-1A	Macrocore	42/60		0.0	
	N/A	Dark brown fine SAND, trace silt, trace fine gravel, wood (moist) [FILL]	2					0.0	
	N/A	Dark brown fine SAND, trace silt, trace fine gravel, wood (moist) [FILL]	3	M-1B	Macrocore			11.9	
	N/A	Dark brown fine SAND, trace silt, trace fine gravel, wood (moist) [FILL]	4					16.0	
	N/A	Dark brown fine SAND, trace silt, trace fine gravel, wood (moist) [FILL]	5					16.4	
	N/A	Dark brown fine SAND, trace silt, trace fine gravel, wood (moist) [FILL]	6					0.0	
	N/A	Dark brown fine SAND, trace silt, trace fine gravel, wood (moist) [FILL]	7	M-2	Macrocore	32/60		0.8	
	N/A	Dark brown fine SAND, trace silt, trace fine gravel, wood (moist) [FILL]	8					7.8	
	N/A	Dark brown fine SAND, trace silt, trace fine gravel, wood (moist) [FILL]	9					26.1	
	N/A	Dark brown fine SAND, trace silt (wet) [SP-SM]	10					28.4	
	N/A	Dark brown fine SAND, trace silt (wet) [SP-SM]	11					36.2	
	N/A	Dark brown fine SAND, trace silt (wet) [SP-SM]	12	M-3	Macrocore	38/60		34.6	
	N/A	Dark brown fine SAND, trace silt (wet) [SP-SM]	13					40.3	
	N/A	Dark brown fine SAND, trace silt (wet) [SP-SM]	14					8.4	
	N/A	Dark brown fine SAND, trace silt (wet) [SP-SM]	15					4.6	
	N/A	Dark brown fine SAND, trace silt (wet) [SP-SM]	16					6.0	
	N/A	Dark brown fine SAND, trace silt (wet) [SP-SM]	17					2.0	
	N/A	Dark brown fine SAND, trace silt (wet) [SP-SM]	18					0.7	
	N/A	Dark brown fine SAND, trace silt (wet) [SP-SM]	19						
	N/A	Dark brown fine SAND, trace silt (wet) [SP-SM]	20						
	N/A	Dark brown fine SAND, trace silt (wet) [SP-SM]	21						
	N/A	Dark brown fine SAND, trace silt (wet) [SP-SM]	22						
	N/A	Dark brown fine SAND, trace silt (wet) [SP-SM]	23						
	N/A	Dark brown fine SAND, trace silt (wet) [SP-SM]	24						
	N/A	End of Boring at 15.0ft.	15						

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/14/2024	Date Finished 6/14/2024	
Drilling Equipment Geoprobe 7822DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman Chris Slaven		
Sampler Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	Field Engineer Lisa Cristiano

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penetr-resist BL/6in	PID Reading (ppm)	
	N/A		0	M-1A				0.0	Langan Utility Clearance Exempted by Shareholder WC08_COMP_0-4
	N/A	Tannish white CONCRETE, trace gravel (dry) [CONCRETE]	1					0.0	
	N/A	Dark brown to dark gray fine SAND, trace silt, trace fine gravel, brick, wood (moist) [FILL]	2					0.0	
	N/A		3	M-1B	Macrocore	42/60		0.0	
	N/A		4					0.2	
	N/A	End of Boring at 5.0ft.	5					0.0	
			6						Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						
			21						
			22						
			23						
			24						

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/20/2024	Date Finished 6/20/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 15.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples Disturbed 3	Undisturbed 0	Core 0
Casing Diameter (in) N/A	Casing Depth (ft) N/A		Water Level (ft.) First $\nabla$ 10.0	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman John Slavin		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (ft)	Penetr-resist BL/6in		PID Reading (ppm)
	N/A	CONCRETE	0	PD-1 A	DIST	0/6		14.1	Langan Utility Clearance Exempted by Shareholder
	N/A	Brown to dark gray fine SAND, trace silt, trace fine angular gravel, coal, coal ash, brick (moist) [FILL]	1	PD-1 B	DIST			8.5	
	N/A		2					1.6	
	N/A		3	M-1	Macrocore	42/54		0.8	
	N/A		4					0.0	3-ft to 3.5-ft- Petroleum-like odor WC09_COMP_0-4
	N/A		5					8.1	
	N/A	Brown to dark gray fine SAND, trace silt, trace fine gravel, coal, coal ash, wood (moist) [FILL]	6					6.7	
	N/A		7	M-2A	Macrocore			0.0	5-ft to 6-ft- Petroleum-like odor, black staining, positive sheen test, pooled product
	N/A	Dark gray to black high viscous, tar-like material (tar) [FILL]	8			48/60		0.0	
	N/A	Brown to dark gray fine SAND, trace silt (moist) [SP-SM]	9	M-2B	Macrocore			7.3	6.5-ft to 6.8-ft Adhesive/chemical-like odor, dark gray staining
	N/A		10					104.5	7-ft to 9-ft- Creosote-like odor WC09A_GRAB_7-9
	N/A		11					230.7	WC17_COMP_4-9
	N/A		12					306.0	
	N/A		13	M-3	Macrocore	52/60		69.5	
	N/A		14					137.0	
	N/A	Brown to dark gray fine SAND, trace silt (wet) [SP-SM]	15					3.6	10-ft to 13.5-ft- Creosote-like odor, black staining, positive sheen test
	N/A		16					46.7	
	N/A		17					56.1	
	N/A		18					52.7	
	N/A		19					15.0	
	N/A		20					21.6	
	N/A	End of Boring at 15.0ft.						26.8	
	N/A							6.0	
	N/A							2.9	
	N/A							3.6	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/20/2024		Date Finished 6/20/2024
Drilling Equipment Geoprobe 6011DT			Completion Depth 15.0 ft		Rock Depth Not Encountered
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples Disturbed 3		Undisturbed 0 Core 0
Casing Diameter (in) N/A		Casing Depth (ft) N/A	Water Level (ft.) First ∇ 10.0		Completion ∇ N/A 24 HR. ∇ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman John Slavin		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (ft)	Penet-resist BL/6in		PID Reading (ppm)
	N/A	CONCRETE	0	PD-1 A	DIST	0.6		0.0	Langan Utility Clearance Exempted by Shareholder
	N/A	Dark brown to black fine SAND, trace silt, trace fine subangular gravel, coal, coal ash (moist) [FILL]	1	PD-1 B				0.8	
	N/A	Dark brown to black fine SAND, trace silt, trace fine gravel, coal, coal ash (moist) [FILL]	2	M-1	Macrocore	40/54		0.0	WC09B_GRAB_2-4 WC09_COMP_0-4 2.5-ft to 3.5-ft- Chemical-like odor, black staining, pooled product
	N/A	Dark brown to black fine SAND, trace silt, trace fine gravel, coal, coal ash (moist) [FILL]	3					0.0	
	N/A	Dark brown to black fine SAND, trace silt, trace fine gravel, coal, coal ash (moist) [FILL]	4					3.2	
	N/A	Dark brown to black fine SAND, trace silt, trace fine gravel, coal, coal ash (moist) [FILL]	5	M-2A				65.7	
	N/A	Dark gray to brown fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	6					20.4	5-ft to 6-ft- Chemical-like odor
	N/A	Dark gray to brown fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	7					15.0	
	N/A	Dark gray to brown fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	8	M-2B	Macrocore	35/60		19.3	6-ft to 8-ft- Petroleum-like odor WC17_COMP_4-9
	N/A	Dark gray to brown fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	9					39.2	
	N/A	Dark gray to brown fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	10					86.0	
	N/A	Dark gray to brown fine SAND, trace silt, trace fine gravel (wet) [SP-SM]	11	M-3	Macrocore	54/60		195.7	10-ft to 11-ft- Creosote-like odor, positive sheen test, oozing yellow liquid 11-ft to 13-ft- Petroleum-like odor, black staining
	N/A	Dark gray to brown fine SAND, trace silt, trace fine gravel (wet) [SP-SM]	12					156.2	
	N/A	Dark gray to brown fine SAND, trace silt, trace fine gravel (wet) [SP-SM]	13					2.4	
	N/A	Dark gray to brown fine SAND, trace silt, trace fine gravel (wet) [SP-SM]	14					9.6	
	N/A	End of Boring at 15.0ft.	15					17.9	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
	N/A	End of Boring at 15.0ft.	16					6.4	
	N/A	End of Boring at 15.0ft.	17					4.9	
	N/A	End of Boring at 15.0ft.	18					1.8	
	N/A	End of Boring at 15.0ft.	19					2.7	
	N/A	End of Boring at 15.0ft.	20					0.8	

# LANGAN

Log of Boring

**WC09C**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/20/2024	Date Finished 6/20/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman John Slavin		
Sampler Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	Field Engineer Lisa Cristiano

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (ft)	Penetr-resist BL/6in		PID Reading (ppm)
	N/A	CONCRETE	0	PD-1 A	DIS	0/6		0.0	Langan Utility Clearance Exempted by Shareholder WC09_COMP_0-4
	N/A	Dark gray to dark brown fine SAND, trace silt, trace fine subangular gravel, brick, coal (moist) [FILL]	1	PD-1 B				0.0	
			2					0.0	
			3	M-1	Macrocore	36/54		0.0	
			4					0.0	
	N/A	End of Boring at 5.0ft.	5					0.0	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						
			21						
			22						
			23						
			24						

# LANGAN

Log of Boring **WC09D**


Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/20/2024	Date Finished 6/20/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman John Slavin		
Sampler Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	Field Engineer Lisa Cristiano

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				PID Reading (ppm)	Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr-resist BL/6in		
	N/A	CONCRETE	0	PD-1 A	DIS	0/6		0.0	Langan Utility Clearance Exempted by Shareholder WC09_COMP_0-4  WC09_COMP_0-4
	N/A	Dark gray to dark brown fine SAND, trace silt, trace fine angular gravel, brick, coal, concrete (moist) [FILL]	1	PD-1 B				0.1	
			2					0.0	
			3	M-1	Macrocore	42/54		3.1	
			4					0.0	
	N/A	End of Boring at 5.0ft.	5					0.0	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			6					0.0	
			7					0.0	
			8					0.0	
			9					0.0	
			10					0.0	
			11					0.0	
			12					0.0	
			13					0.0	
			14					0.0	
			15					0.0	
			16					0.0	
			17					0.0	
			18					0.0	
			19					0.0	
			20					0.0	
			21					0.0	
			22					0.0	
			23					0.0	
			24					0.0	



Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/13/2024	Date Finished 6/13/2024	
Drilling Equipment Geoprobe 7822DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman Brandon		
Sampler Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	Field Engineer Lisa Cristiano

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (ft)	Penetr-resist BL/6in	PID Reading (ppm)		
	N/A	Dark brown to reddish gray fine SAND, trace silt, trace fine subangular gravel, brick (moist) [FILL]	0					0.0	Langan Utility Clearance Exempted by Shareholder WC10_COMP_0-4  Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.	
			1					0.0		
				2	M-1	Macrocore	42/60			0.0
				3						0.0
				4						0.0
	N/A	End of Boring at 5.0ft.	5					0.0		
			6							
			7							
			8							
			9							
			10							
			11							
			12							
			13							
			14							
			15							
			16							
			17							
			18							
			19							
			20							
			21							
			22							
			23							
			24							

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/13/2024	Date Finished 6/13/2024	
Drilling Equipment Geoprobe 7822DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman Brandon		
Sampler Hammer N/A			Field Engineer Lisa Cristiano		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (in)	Penetr-resist BL/6in	PID Reading (ppm)	
[Cross-hatch pattern]	N/A	Dark gray to brown fine SAND, trace silt, trace fine subangular gravel, brick, concrete (moist) [FILL]	0					0.0	Langan Utility Clearance Exempted by Shareholder WC10_COMP_0-4
		Dark gray ASPHALT, trace fine gravel (moist) [FILL]	1	M-1A	Macrocore	48/60			
			2						
			3					0.0	
			4	M-1B				0.2	
			5					0.0	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
		End of Boring at 5.0ft.	6					0.0	
			7					0.0	
			8					0.0	
			9					0.0	
			10					0.0	
			11					0.0	
			12					0.0	
			13					0.0	
			14					0.0	
			15					0.0	
			16					0.0	
			17					0.0	
			18					0.0	
			19					0.0	
			20					0.0	
			21					0.0	
			22					0.0	
			23					0.0	
			24					0.0	

# LANGAN


Log of Boring **WC10C**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/13/2024	Date Finished 6/13/2024	
Drilling Equipment Geoprobe 7822DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A		Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer	N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Brandon	
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer	N/A	Weight (lbs) N/A	Drop (in) N/A		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penet-resist BL/6in		PID Reading (ppm)
	N/A	Dark gray ASPHALT, trace fine subangular gravel, fibrous vegetation (moist) [ASPHALT]	0					0.0	Langan Utility Clearance Exempted by Shareholder
	N/A	Reddish brown to dark gray fine SAND, trace silt, trace fine subangular gravel, brick, coal, coal ash (moist) [FILL]	1	M-1A	Macrocore	42/60		0.0	
	N/A	End of Boring at 5.0ft.	2					0.0	WC10_COMP_0-4
	N/A		3	M-1B				0.0	
	N/A		4					0.0	
	N/A		5					0.0	
	N/A		6					0.0	
	N/A		7					0.0	
	N/A		8					0.0	
	N/A		9					0.0	
	N/A		10					0.0	
	N/A		11					0.0	
	N/A		12					0.0	
	N/A		13					0.0	
	N/A		14					0.0	
	N/A		15					0.0	
	N/A		16					0.0	
	N/A		17					0.0	
	N/A		18					0.0	
	N/A		19					0.0	
	N/A		20					0.0	
	N/A		21					0.0	
	N/A		22					0.0	
	N/A		23					0.0	
	N/A		24					0.0	

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/13/2024	Date Finished 6/13/2024	
Drilling Equipment Geoprobe 7822 DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman Brandon		
Sampler Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	Field Engineer Lisa Cristiano

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist BL/6in	PID Reading (ppm)		
	N/A	Dark brown to light gray fine SAND, trace silt, trace fine subangular gravel, concrete (moist) [FILL]	0					0.0	Langan Utility Clearance Exempted by Shareholder WC10_COMP_0-4 WC10D_GRAB_2-3 WC10_COMP_0-4	
			1					0.0		
				2						0.0
				3	M-1	Macrocore	46/60			0.0
				4						0.0
	N/A	End of Boring at 5.0ft.	5					0.0	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.	
			6					0.0		
			7					0.0		
			8					0.0		
			9					0.0		
			10					0.0		
			11					0.0		
			12					0.0		
			13					0.0		
			14					0.0		
			15					0.0		
			16					0.0		
			17					0.0		
			18					0.0		
			19					0.0		
			20					0.0		
			21					0.0		
			22					0.0		
			23					0.0		
			24					0.0		

# LANGAN

Log of Boring **WC11A**

Sheet 1 of 1

Project	145-165 Wolcott Street			Project No.	170562203		
Location	Brooklyn, New York			Elevation and Datum	N/A		
Drilling Company	Coastal Environmental Solutions, Inc.			Date Started	6/18/2024	Date Finished	6/18/2024
Drilling Equipment	Geoprobe 6011DT			Completion Depth	15.0 ft	Rock Depth	Not Encountered
Size and Type of Bit	2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 3	Undisturbed 0	Core 0
Casing Diameter (in)	N/A	Casing Depth (ft)	N/A	Water Level (ft.)	First $\nabla$ 10.0	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer	N/A	Weight (lbs)	N/A	Drop (in)	N/A		
Sampler	60-inch Macrocore			Drilling Foreman	Brandon		
Sampler Hammer	N/A	Weight (lbs)	N/A	Drop (in)	N/A		
				Field Engineer	Lisa Cristiano		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penetr-resist BL/6in	PID Reading (ppm)	
[Cross-hatched pattern]	N/A	Dark gray to brown fine SAND, trace silt, trace fine gravel, brick, glass (moist) [FILL]	0					0.0	Langan Utility Clearance Exempted by Shareholder WC11_COMP_0-4
	1						0.0		
	2						0.0		
	3						0.0		
	4						0.0		
	5						0.0		
	6						0.0		
	7						0.1		
	8						1.1		
	9						0.3		
		Dark brown fine SAND, trace silt, trace fine gravel, brick, concrete (moist) [FILL]	10					3.0	WC11_COMP_4-9 8-ft to 8.5-ft- tar-like odor, black staining, negative sheen test
							9.7		
			11					0.0	10-ft to 12.5-ft- black staining WC18_COMP_9-13
							0.0		
		Dark gray to black high viscous, tar-like material (tar) [FILL]	11					0.1	
		Dark gray to light brown fine SAND, trace silt, trace fine gravel (wet) [SP-SM]	12					1.9	
			13					4.9	
			14					4.7	
			15					0.7	
			16					0.6	
			17					0.2	
			18					0.1	
		End of Boring at 15.0ft.	15					0.1	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
16									
17									
18									
19									
20									

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/18/2024	Date Finished 6/18/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 15.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples Disturbed 3	Undisturbed 0	Core 0
Casing Diameter (in) N/A	Casing Depth (ft) N/A		Water Level (ft.) First $\nabla$ 10.0	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Brandon		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft) N/A	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penetr-resist BL/6in	PID Reading (ppm)	
	N/A	Dark brown fine SAND, trace silt, trace fine gravel, coal (moist) [FILL]	0	M-1 Macrocore	36/60			0.0	Langan Utility Clearance Exempted by Shareholder
			1					0.0	
			2					0.0	
			3					6.9	
			4					5.9	
			5						
			6					1.2	
			7					0.5	
			8					0.6	
			9					10.0	
	N/A	Dark brown fine SAND, trace silt, trace fine gravel, wood (moist) [FILL]	10	M-2 Macrocore	36/60			2.6	WC11_COMP_4-9 WC11B_GRAB_6-7
			11					11.2	
			12					13.8	
			13						
			14						
	N/A	Dark brown to brown SAND, trace silt (wet) [SP-SM]	15	M-3 Macrocore	42/60			0.0	WC18_COMP_9-13
			16					0.0	
			17					8.2	
			18					4.1	
			19					0.7	
			20					0.0	
			21					0.0	
			22					0.0	
			23					0.0	
			24					0.0	
	N/A	End of Boring at 15.0ft.	15						Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.

# LANGAN

Log of Boring **WC11C**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/18/2024	Date Finished 6/18/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 10.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples Disturbed 2	Undisturbed 0	Core 0
Casing Diameter (in) N/A	Casing Depth (ft) N/A		Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Chris Slaven		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Sampler Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft) N/A	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)		
				Number	Type	Recov. (ft)	Penetr-resist BL/6in	PID Reading (ppm)			
[Cross-hatched pattern]	N/A	Dark gray fine SAND, trace silt, trace fine gravel, brick, wood (moist) [FILL]	0	M-1 Macrocore	37/60			0.0	Langan Utility Clearance Exempted by Shareholder		
			1					0.0			
			2					0.0			
			3					3.0			
			4					8.1			
		Dark gray fine SAND, trace silt, trace fine gravel, wood (moist) [FILL]	N/A	End of Boring at 10.0ft.	5	M-2 Macrocore	36/60			0.0	7-ft to 8-ft- Tar-like odor
					6					0.4	
					7					9.5	
					8					4.7	
					9					5.6	
			10				4.7				
			11				5.2				
			12								
			13								
			14								
			15								
			16								
			17								
			18								
			19								
			20								
			21								
			22								
			23								
			24								

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/18/2024		Date Finished 6/18/2024
Drilling Equipment Geoprobe 6011DT			Completion Depth 15.0 ft		Rock Depth Not Encountered
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples Disturbed 3	Undisturbed 0	Core 0
Casing Diameter (in) N/A		Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ 10.0		Completion $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Chris Slaven		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Sampler Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft) N/A	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)		
				Number	Type	Recov. (ft)	Penetr. resist BL/6in		PID Reading (ppm)	
[Cross-hatch pattern]	N/A	Dark gray to brown fine SAND, trace silt, trace fine gravel, wood, glass (moist) [FILL]	0					0.0	Langan Utility Clearance Exempted by Shareholder WC11_COMP_0-4	
			1	M-1A	Macrocore	48/60		0.0		
			2					0.0		
			3	Black Clayey SAND, trace fine gravel, wood (moist) [FILL]				4.8		WC11_COMP_0-4
			4		M-1B			22.7		WC11D_GRAB_3-4
			5	Black fine SAND, trace fine gravel, wood, trace silt (moist) [FILL]				2.0		
			6					0.5		
			7					0.0		
			8		M-2	Macrocore	45/60			2.7
			9					2.3		WC11_COMP_4-9
	10					0.9				
	11					2.3				
	12					5.4	8-ft to 9-ft- Petroleum-like odor			
	13					4.1	WC11_COMP_4-9			
	14									
	15									
	16									
	17									
	18									
	19									
	20									
	21									
	22									
	23									
	24									
		Dark brown to gray fine SAND, trace silt, trace fine gravel (wet) [SP-SM]	10					0.0	WC18_COMP_9-13	
			11					0.3		
			12					3.5		
			13	M-3	Macrocore	46/60		4.4	12-ft to 14-ft- Petroleum-like odor, black staining	
			14					9.6		
			15					3.8		
			16					4.9		
			17					5.9		
		End of Boring at 15.0ft.	15						Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.	



Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/19/2024		Date Finished 6/19/2024
Drilling Equipment Geoprobe 6011DT			Completion Depth 15.0 ft		Rock Depth Not Encountered
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples Disturbed 3	Undisturbed 0	Core 0
Casing Diameter (in) N/A		Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ 10.0		Completion $\nabla$ N/A
Casing Hammer N/A		Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Brandon	
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Sampler Hammer N/A		Weight (lbs) N/A	Drop (in) N/A		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penetr. resist BL/6in	PID Reading (ppm)	
	N/A	Dark gray ASPHALT, gravel (dry) [ASPHALT]	0	M-1A				0.0	Langan Utility Clearance Exempted by Shareholder WC12_COMP_0-4
	N/A	Dark brown fine SAND, trace silt, trace fine gravel, wood, brick, coal, coal ash (moist) [FILL]	1					0.0	
	N/A		2					0.0	
	N/A		3	M-1B	Macrocore	42/60		0.7	
	N/A		4					0.2	
	N/A		5					0.3	
	N/A	Dark brown fine SAND, trace silt, trace fine gravel, wood, brick, coal, coal ash (moist) [FILL]	6					0.1	
	N/A		7	M-2A	Macrocore			1.8	
	N/A		8					2.8	
	N/A	Dark brown to dark gray fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	9					14.8	
	N/A		10	M-2B	Macrocore	38/60		38.4	
	N/A	Dark brown to dark gray fine SAND, trace silt, trace fine gravel (wet) [SP-SM]	11					30.0	
	N/A		12					46.1	
	N/A		13	M-3	Macrocore	40/60		28.4	
	N/A		14					7.1	
	N/A	End of Boring at 15.0ft.	15					26.3	
	N/A		16					30.4	
	N/A		17					11.0	
	N/A		18					42.6	
	N/A		19					15.6	
	N/A		20					37.5	
	N/A		21					43.9	
	N/A		22						
	N/A		23						
	N/A		24						

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/19/2024	Date Finished 6/19/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 15.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples 3	Disturbed 0	Undisturbed 0
Casing Diameter (in) N/A	Casing Depth (ft) N/A		Water Level (ft.) First $\nabla$ 10.0	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Brandon		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (ft)	Penetr. resist BL/6in		PID Reading (ppm)
	N/A	ASPHALT	0	PD-1 A	DIS	0/6		0.0	Langan Utility Clearance Exempted by Shareholder WC12_COMP_0-4
	N/A	Dark brown fine SAND, trace silt, trace fine gravel, brick, coal, coal ash (moist) [FILL]	1	PD-1 B				0.0	
			2					0.7	
			3	M-1	Macrocore	30/54		0.5	
			4					0.5	
		Dark brown fine SAND, trace silt, trace fine gravel, coal, coal ash (moist) [FILL]	5					1.4	5-ft to 7.5-ft- Petroleum-like odor, black staining, positive sheen test
			6					16.6	
			7					49.6	
			8	M-2	Macrocore	30/60		62.3	WC12_COMP_4-9
			9					51.5	
			10					13.8	
		Dark brown to dark gray fine SAND, trace silt, trace fine gravel, coal, coal ash (wet) [FILL]	10					1.2	10-ft to 12-ft- Petroleum-like odor, black staining, positive sheen test
			11					24.7	
			12					44.8	
			13	M-3	Macrocore	48/60		31.2	12-ft to 12.5-ft- schist-like lense
			14					63.6	
			15					20.6	
		End of Boring at 15.0ft.	15					13.8	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			16					31.0	
			17					17.7	
			18						
			19						
			20						
			21						
			22						
			23						
			24						

# LANGAN

Log of Boring **WC12C**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/19/2024	Date Finished 6/19/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 10.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 2	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman Brandon		
Sampler Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	Field Engineer Lisa Cristiano

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penetr. resist BL/6in	
	N/A	ASPHALT	0	PD-1 A	DIS	0/6		
	N/A	Dark brown fine SAND, trace silt, trace fine gravel, wood, brick, coal (moist) [FILL]	1	PD-1 B				0.5 0.8
			2					0.6
			3	M-1	Macrocore	32/54		0.5 0.7
			4					0.5
		Dark brown fine SAND, trace silt, trace fine gravel, wood, coal (moist) [FILL]	5					0.5
			6					0.9
			7					3.7
			8	M-2	Macrocore	40/60		25.2 67.0 86.5
			9					42.7
	N/A	End of Boring at 10.0ft.	10					
			11					
			12					
			13					
			14					
			15					
			16					
			17					
			18					
			19					
			20					
			21					
			22					
			23					
			24					

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/19/2024	Date Finished 6/19/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 10.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 2	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman Brandon		
Sampler Hammer N/A			Field Engineer Lisa Cristiano		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penetr. resist BL/6in	PID Reading (ppm)	
	N/A	ASPHALT	0	PD-1 A	DIS	0/6		0.2	Langan Utility Clearance Exempted by Shareholder
	N/A	Dark brown to reddish brown fine SAND, trace silt, trace fine gravel, brick, coal (moist) [FILL]	1	PD-1 B				0.0	
			2					0.2	WC12_COMP_0-4
			3	M-1	Macrocore	26/54		0.2	
			4						
		Dark gray to light brown fine SAND, trace silt, trace fine gravel, coal, coal ash (moist) [FILL]	5					3.7	5-ft to 7-ft- Creosote-like odor
			6	M-2A				18.0	WC12_COMP_4-9
			7					42.0	
	N/A	Light brown fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	8		Macrocore	36/60		27.7	
			9	M-2B				13.4	
			10					44.2	
	N/A	End of Boring at 10.0ft.	11					7.4	
			12						Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						
			21						
			22						
			23						
			24						

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/19/2024	Date Finished 6/19/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 10.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 2	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First N/A	Completion 24 HR. N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Brandon		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (ft)	Penet-resist BL/6in		PID Reading (ppm)
	N/A	ASPHALT	0	PD-1 A	DIS	0/6		0.9	Langan Utility Clearance Exempted by Shareholder WC12E_GRAB_0-2 WC12_COMP_0-4
	N/A	Dark gray to brown fine SAND, trace silt, trace fine gravel, coal, wood, brick (moist) [FILL]	1	PD-1 B				1.3	
	N/A		2					0.7	
	N/A		3	M-1	Macrocore	24/54		0.7	
	N/A	Dark gray to brown fine SAND, trace silt, trace fine gravel, coal, brick (moist) [FILL]	4					0.8	
	N/A		5					0.3	
	N/A		6	M-2A	Macrocore			0.5	
	N/A		7					2.4	
	N/A	Light brown fine SAND, trace silt (moist) [SP-SM]	8			45/60		2.4	
	N/A		9	M-2B	Macrocore			0.8	WC12_COMP_4-9
	N/A		10					0.9	
	N/A	End of Boring at 10.0ft.	11					0.6	
	N/A		12					0.4	
	N/A		13						Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
	N/A		14						
	N/A		15						
	N/A		16						
	N/A		17						
	N/A		18						
	N/A		19						
	N/A		20						
	N/A		21						
	N/A		22						
	N/A		23						
	N/A		24						

# LANGAN

Log of Boring **WC13A**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/17/2024	Date Finished 6/17/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman Brandon		
Sampler Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	Field Engineer Lisa Cristiano

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr-resist BL/6in		PID Reading (ppm)
	N/A	CONCRETE	0	PD-1 A	DIS	0/6		0.0	Langan Utility Clearance Exempted by Shareholder
	N/A	Dark brown fine SAND, trace fine subrounded gravel, wood, brick, slag (moist) [FILL]	1	PD-1 B				0.0	
	N/A		2					0.0	
	N/A		3	M-1	Macrocore	30/54		0.0	
	N/A		4					0.0	
	N/A	End of Boring at 5.0ft.	5						Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						
			21						
			22						
			23						
			24						

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/17/2024	Date Finished 6/17/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman Brandon		
Sampler Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	Field Engineer Lisa Cristiano

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist BL/6in		PID Reading (ppm)
	N/A	CONCRETE	0	PD-1 A	DIS	0/6		0.0	Langan Utility Clearance Exempted by Shareholder WC13_COMP_0-4
	N/A	Dark brown fine SAND, trace silt, trace coal, some fine to coarse subangular gravel (moist) [FILL]	1	PD-1 B				0.0	
			2					0.0	
			3	M-1	Macrocore	32/54		0.0	
			4					0.0	
	N/A	End of Boring at 5.0ft.	5					0.0	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						
			21						
			22						
			23						
			24						

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/17/2024	Date Finished 6/17/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman Brandon		
Sampler Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	Field Engineer Lisa Cristiano

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr-resist BL/6in		PID Reading (ppm)
	N/A	CONCRETE	0	PD-1 A	DIS	0/6		0.0	Langan Utility Clearance Exempted by Shareholder WC13_COMP_0-4
	N/A	Dark brown to dark gray fine SAND, trace silt, trace fine subangular gravel, coal, wood (moist) [FILL]	1	PD-1 B				0.0	
	N/A		2					0.0	
	N/A		3	M-1	Macrocore	24/54		0.0	
	N/A		4					0.0	
	N/A	End of Boring at 5.0ft.	5						Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						
			21						
			22						
			23						
			24						



Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/17/2024	Date Finished 6/17/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman Brandon		
Sampler Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	Field Engineer Lisa Cristiano


Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist BL/6in		PID Reading (ppm)
	N/A		0	PD-1 A	DIS	0/6		0.0	Langan Utility Clearance Exempted by Shareholder WC13_COMP_0-4 WC13D_GRAB_0-2
	N/A	CONCRETE	0	PD-1 B				0.0	
	N/A	Dark brown fine SAND, trace silt, trace fine subangular gravel, wood, brick (moist) [FILL]	1					0.0	
	N/A		2					0.0	
	N/A		3	M-1	Macrocore	27/54		0.0	
	N/A	End of Boring at 5.0ft.	5						Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						
			21						
			22						
			23						
			24						

# LANGAN

Log of Boring **WC13E**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/17/2024	Date Finished 6/17/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman Chris Slaven		
Sampler Hammer N/A			Field Engineer Lisa Cristiano		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penetr-resist BL/6in	PID Reading (ppm)	
	N/A	Dark brown to light brown fine SAND, trace silt, trace fine subangular gravel, glass (moist) [FILL]	0	M-1 Macrocore	32/60			0.0	Langan Utility Clearance Exempted by Shareholder WC13_COMP_0-4
			1			0.0			
			2			0.0			
			3			0.0			
			4			0.0			
	N/A	End of Boring at 5.0ft.	5					0.0	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						
			21						
			22						
			23						
			24						

# LANGAN

Log of Boring **WC13F**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/17/2024	Date Finished 6/17/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 5.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 1	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman Chris Slaven		
Sampler Hammer N/A			Field Engineer Lisa Cristiano		

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data					Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penetr-resist BL/6in	PID Reading (ppm)	
	N/A	Light brown fine SAND, trace silt, trace fine subrounded gravel (dry) [SP-SM]	0	M-1 Macrocore	32/60			0.0	Langan Utility Clearance Exempted by Shareholder WC13_COMP_0-4
			1					0.0	
			2					0.0	
			3					0.0	
			4					0.0	
	N/A	End of Boring at 5.0ft.	5					0.0	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						
			17						
			18						
			19						
			20						
			21						
			22						
			23						
			24						

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/17/2024	Date Finished 6/17/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 10.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 2	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	24 HR. $\nabla$ N/A
Sampler 60-inch Macrocore			Drilling Foreman Chris Slaven		
Sampler Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	Field Engineer Lisa Cristiano

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (ft)	Penetr. resist BL/6in		PID Reading (ppm)
	N/A	ASPHALT	0	PD-1 A	DIS	0/6		0.0	Langan Utility Clearance Exempted by Shareholder WC14_COMP_0-4
	N/A	Dark brown to dark gray fine SAND, trace silt, trace fine gravel, brick, glass (moist) [FILL]	1	PD-1 B				0.0	
	N/A		2					0.0	1.5-ft to 2.5-ft- Petroleum-like odor, black staining, positive sheen test WC14A_GRAB_2-3
	N/A		3	M-1	Macrocore	32/54		6.5	
	N/A		4					9.6	WC14A_COMP_4-9
	N/A		5					35.1	
	N/A	Black fine SAND, trace silt (moist) [SP-SM]	6					0.5	WC14A_GRAB_5-6
	N/A		7	M-2	Macrocore	48/60		2.5	
	N/A		8					29.9	6-ft to 9-ft- Black staining
	N/A		9					22.8	
	N/A		10					38.4	7-ft to 8-ft- Tar-like odor, black staining, melted tar within sediment
	N/A		11					25.6	
	N/A	End of Boring at 10.0ft.	12					9.7	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
	N/A		13					36.2	
	N/A		14					22.4	
	N/A		15						
	N/A		16						
	N/A		17						
	N/A		18						
	N/A		19						
	N/A		20						
	N/A		21						
	N/A		22						
	N/A		23						
	N/A		24						

# LANGAN

Log of Boring

**WC14B**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/17/2024	Date Finished 6/17/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 10.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 2	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First N/A	Completion 24 HR. N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Chris Slaven		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (ft)	Penetr. resist BL/6in		PID Reading (ppm)
	N/A	ASPHALT	0	PD-1 A	DIS	0/6		0.0	Langan Utility Clearance Exempted by Shareholder
	N/A	Tannish white CONCRETE, trace fine gravel (dry) [CONCRETE]	1	PD-1 B	M-1A			0.0	
	N/A	Dark gray fine SAND, trace silt, trace fine gravel, coal, brick (moist) [FILL]	2					0.0	WC14_COMP_0-4
	N/A		3	M-1B	Macrocore	34/54		0.0	
	N/A	Dark gray to light brown fine SAND, trace silt, trace fine subangular gravel (moist) [SP-SM]	5					0.0	
	N/A		6	M-2	Macrocore	36/60		0.0	
	N/A	End of Boring at 10.0ft.	10					10.8	6.5-ft to 8-ft- Petroleum-like odor, black staining, negative sheen test WC12_COMP_4-9 WC14B_GRAB_7-8
	N/A		11					8.6	
	N/A		12					12.8	
	N/A		13					1.8	
	N/A		14						
	N/A		15						
	N/A		16						
	N/A		17						
	N/A		18						
	N/A		19						
	N/A		20						
	N/A		21						
	N/A		22						
	N/A		23						
	N/A		24						

# LANGAN

Log of Boring **WC14C**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/17/2024	Date Finished 6/17/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 10.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 2	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First N/A	Completion 24 HR. N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Chris Slaven		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penetr. resist BL/6in	
	N/A	CONCRETE	0					
	N/A	Dark brown fine SAND, trace silt, trace fine subangular gravel, concrete, brick (moist) [FILL]	1	PD-1 A	DIST	0/12		0.0
	N/A		2	PD-1 B				0.0
	N/A		3	M-1	Macrocore	30/48		0.0
	N/A	Light brown fine SAND, trace fine gravel, trace silt (moist) [SP-SM]	5					0.0
	N/A		6					0.0
	N/A		7					0.0
	N/A		8	M-2	Macrocore	54/60		0.0
	N/A		9					0.0
	N/A	End of Boring at 10.0ft.	10					0.0
	N/A		11					
	N/A		12					
	N/A		13					
	N/A		14					
	N/A		15					
	N/A		16					
	N/A		17					
	N/A		18					
	N/A		19					
	N/A		20					
	N/A		21					
	N/A		22					
	N/A		23					
	N/A		24					

# LANGAN

Log of Boring **WC14D**

Sheet 1 of 1

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/17/2024	Date Finished 6/17/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 10.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 2	Undisturbed 0 Core 0
Casing Diameter (in) N/A	Casing Depth (ft) N/A		Water Level (ft.) First $\nabla$ N/A	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Chris Slaven		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)
				Number	Type	Recov. (ft)	Penetr. resist BL/6in	
	N/A	ASPHALT	0	PD-1 A	DIS	0/6		
	N/A	Tannish white CONCRETE, trace fine gravel (dry) [CONCRETE]	1	PD-1 B				Langan Utility Clearance Exempted by Shareholder WC14_COMP_0-4
	N/A	Light brown fine SAND, trace silt, trace fine gravel, brick, coal, glass (moist) [FILL]	2	M-1A				WC14_COMP_0-4
	N/A	Light brown fine SAND, trace silt, trace fine gravel, brick (moist) [FILL]	5	M-2A			0.0	WC14_COMP_4-9
	N/A	Light brown fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	7	M-2B			0.0	WC14_COMP_4-9
	N/A	End of Boring at 10.0ft.	10				0.0	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/21/2024		Date Finished 6/21/2024
Drilling Equipment Geoprobe 6011DT			Completion Depth 20.0 ft		Rock Depth Not Encountered
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples Disturbed 4		Undisturbed 0 Core 0
Casing Diameter (in) N/A		Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ 10.0		Completion $\nabla$ N/A 24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Nick Turro		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (ft)	Penetr-resist BL/6in		PID Reading (ppm)
	N/A	ASPHALT	0	PD-1 A	DIS	0/6		5.5	Langan Utility Clearance Exempted by Shareholder WC21_COMP_0-6
	N/A	Dark gray fine SAND, trace silt, gravel, concrete (moist) [FILL]	1	PD-1 B				10.5 5.3	
	N/A		2					1.7	2-ft- Citrus/adhesive-like odor, yellow staining, tacky tar-like material within sediment
	N/A		3	M-1	Macrocore	30/54		26.6 19.4	
	N/A	Dark gray fine SAND, trace silt, gravel, concrete (moist) [FILL] Hard, black to yellow tar-like material (tar) [FILL]	5					8.4	11-ft to 14-ft- Petroleum-like odor, black staining, positive sheen test 5.75-ft to 6.25-ft- Tar-like odor, black staining WC21_COMP_6-12 6.25-ft to 7.5-ft- Citrus/adhesive-like odor, black to yellow staining
	N/A		6					20.1	
	N/A	Dark gray fine SAND, trace silt, gravel, concrete (moist) [FILL]	7					14.9	
	N/A		8	M-2	Macrocore	25/60		22.8 22.5	
	N/A		10					27.6	10-ft to 11-ft- 2-ft- citrus/adhesive-like odor, yellow staining, tar-like material within sediment
	N/A	Dark gray fine SAND, trace silt, gravel (wet) [SP-SM]	11	M-3A				30.4	
	N/A		12					9.1	WC21_COMP_12-16
	N/A		13	M-3B	Macrocore	50/60		33.8	
	N/A		14					17.5	
	N/A	Dark gray fine SAND, trace silt, trace fine gravel (wet) [SP-SM]	15					18.3	
	N/A		16					22.7	15-ft to 18-ft- Petroleum-like odor observed, black staining
	N/A		17	M-4	Macrocore	48/60		35.6	
	N/A		18					48.8	
	N/A		19					14.1	
	N/A	End of Boring at 20.0ft.	20					10.9	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
	N/A		21					47.1	
	N/A		22					29.3	
	N/A		23					27.7	
	N/A		24					51.4	



Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/21/2024	Date Finished 6/21/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 20.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples	Disturbed 4	Undisturbed 0
Casing Diameter (in) N/A			Casing Depth (ft) N/A	Water Level (ft.) First $\nabla$ 10.0	Completion $\nabla$ N/A
Casing Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman  Nick Turro
Sampler 60-inch Macrocore			Field Engineer  Lisa Cristiano		
Sampler Hammer N/A			Weight (lbs) N/A	Drop (in) N/A	

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (ft)	Penetr. resist BL/6in		PID Reading (ppm)
	N/A	ASPHALT	0	PD-1 A	DIS	0/6		0.0	Langan Utility Clearance Exempted by Shareholder WC15_COMP_0-6
	N/A	Dark brown fine SAND, trace silt, trace fine angular gravel, wood, brick, coal (moist) [FILL]	1	PD-1 B				0.0	
	N/A		2					0.0	
	N/A		3	M-1	Macrocore	30/54		1.3	
	N/A		4					0.0	
	N/A	Dark brown to dark gray fine SAND, trace silt, trace fine gravel, wood (moist) [FILL]	5					0.0	
	N/A		6	M-2A				0.4	6-ft to 7-ft- Creosote-like odor, black staining WC15_COMP_6-12
	N/A		7					0.0	
	N/A	Dark brown to gray fine SAND, trace silt (moist) [SP-SM]	8	M-2B	Macrocore	34/60		6.2	
	N/A		9					19.1	WC15_COMP_6-12
	N/A		10					32.3	
	N/A	Dark brown to gray fine SAND, trace silt, trace fine subrounded gravel (wet) [SP-SM]	11					22.2	
	N/A		12					0.6	10-ft to 11-ft- Creosote-like odor, black staining, positive sheen test 11-ft to 13-ft- Petroleum-like odor
	N/A		13	M-3	Macrocore	34/60		23.3	
	N/A		14					21.5	
	N/A		15					22.8	WC15_COMP_12-16
	N/A		16					37.8	
	N/A	Dark brown to gray fine SAND, trace silt, trace fine gravel (wet) [SP-SM]	17	M-4	Macrocore	50/60		15.6	
	N/A		18					5.7	15-ft to 18-ft- Petroleum-like odor
	N/A		19					2.7	
	N/A		20					38.4	
	N/A	End of Boring at 20.0ft.	21					37.5	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
	N/A		22					32.7	
	N/A		23					35.5	
	N/A		24					57.4	

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/21/2024	Date Finished 6/21/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 20.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples 4	Disturbed 0	Undisturbed 0
Casing Diameter (in) N/A	Casing Depth (ft) N/A		Water Level (ft.) First $\nabla$ 10.0	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Nick Turro		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (ft)	Penetr. resist BL/6in		PID Reading (ppm)
	N/A	ASPHALT	0	PD-1 A	DIS	0/6		0.0	Langan Utility Clearance Exempted by Shareholder
	N/A	Dark gray to dark brown fine SAND, trace silt, trace fine subangular gravel, wood, brick (moist) [FILL]	1	PD-1 B				0.0	WC15_COMP_0-6
	N/A		2					9.9	WC15C_GRAB_2-4
	N/A		3	M-1	Macrocore	40/54		0.0	2.5-ft to 3.5-ft- Citrus/adhesive-like odor, black to yellow staining, tacky tar-like material within sediment
	N/A		4					20.6	
	N/A		5					2.4	
	N/A	Dark gray to dark brown fine SAND, trace silt, trace fine gravel, wood, brick (moist) [FILL]	6	M-2A				1.8	5-ft to 6-ft- Chemical-like odor
	N/A		7					0.5	
	N/A	Dark gray to dark brown fine SAND, trace silt, trace fine gravel (moist) [SP-SM]	8	M-2B	Macrocore	40/60		12.6	6-ft to 7-ft- Citrus/adhesive-like odor, black to yellow staining, tacky tar-like material within sediment
	N/A		9					9.3	7-ft to 7.5-ft- Petroleum-like odor
	N/A		10					9.1	WC15_COMP_6-12
	N/A	Dark gray to dark brown fine SAND, trace silt, trace fine gravel (wet) [SP-SM]	11					22.2	
	N/A		12					1.9	
	N/A		13	M-3	Macrocore	46/60		4.9	10-ft to 10.5-ft- Citrus-like odor
	N/A		14					2.7	10.5-ft to 11-ft- Petroleum-like odor
	N/A		15					0.2	
	N/A		16					0.0	
	N/A		17					0.0	
	N/A		18	M-4	Macrocore	60/60		0.0	WC15_COMP_12-16
	N/A		19					0.0	WC15_COMP_12-16
	N/A		20					0.0	
	N/A	End of Boring at 20.0ft.	21					0.0	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
	N/A		22					0.0	
	N/A		23					0.0	
	N/A		24					0.0	

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/21/2024	Date Finished 6/21/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 20.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples 4	Disturbed 0	Undisturbed 0
Casing Diameter (in) N/A	Casing Depth (ft) N/A		Water Level (ft.) First $\nabla$ 10.0	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Brandon		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr-resist BL/6in		PID Reading (ppm)
	N/A	ASPHALT	0	PD-1 A	DIS	0/6		12.9	Langan Utility Clearance Exempted by Shareholder
	N/A	Dark brown fine SAND, trace silt, trace fine subangular gravel, brick (moist) [FILL]	1	PD-1 B				8.0	
	N/A		2					0.1	WC15_COMP_0-6
	N/A		3	M-1	Macrocore	30/54		0.0	
	N/A		4					0.0	5-ft to 6.5-ft- Citrus/adhesive-like odor, black to yellow staining, tacky tar-like material within sediment
	N/A	Dark brown fine SAND, trace silt, trace fine gravel, brick (moist) [FILL]	5					0.8	
	N/A		6	M-2A				3.1	WC15_COMP_6-12
	N/A	Light brown fine SAND, trace silt (moist) [SP-SM]	7					1.3	
	N/A		8	M-2B	Macrocore	42/60		4.1	WC15_COMP_12-16
	N/A		9					1.6	
	N/A		10					0.1	WC15_COMP_6-12
	N/A	Light brown fine SAND, trace silt (wet) [SP-SM]	11					0.0	
	N/A		12					0.0	WC15_COMP_12-16
	N/A		13	M-3	Macrocore	36/60		0.0	
	N/A		14					0.0	WC15_COMP_12-16
	N/A	Light brown fine SAND, trace silt (wet) [SP-SM]	15					0.0	
	N/A		16					0.0	WC15_COMP_12-16
	N/A		17					0.0	
	N/A		18	M-4	Macrocore	42/60		0.0	WC15_COMP_12-16
	N/A		19					0.0	
	N/A	End of Boring at 20.0ft.	20					0.0	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
	N/A		21					0.0	
	N/A		22					0.0	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
	N/A		23					0.0	
	N/A		24					0.0	Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
	N/A		25					0.0	

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/21/2024		Date Finished 6/21/2024
Drilling Equipment Geoprobe 6011DT			Completion Depth 20.0 ft		Rock Depth Not Encountered
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples 4	Disturbed 0	Undisturbed 0
Casing Diameter (in) N/A	Casing Depth (ft) N/A		Water Level (ft.) First $\nabla$ 10.0	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Nick Turro		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Sampler Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (in)	Penetr. resist BL/6in		PID Reading (ppm)
	N/A	ASPHALT	0	PD-1 A	DIS	0/6		0.0	Langan Utility Clearance Exempted by Shareholder WC21_COMP_0-6  WC15E_GRAB_4-6  5-ft to 6-ft- Petroleum-like odor, black staining, positive sheen, test pooled product 6-ft to 7.5-ft- Chemical-like odor WC15E_GRAB_6-8 WC21_COMP_6-12  10-ft to 11.5-ft- Chemical-like odor, black staining, positive sheen test, saturated with pooled product 11.5-ft to 12.5-ft- Citrus-like odor WC21_COMP_12-16 12.5-ft to 15-ft- Petroleum-like odor, black staining WC15E_GRAB_13-15  15-ft to 18-ft- Chemical-like odor  18-ft to 20-ft- Petroleum-like odor  Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
	N/A	Dark brown fine SAND, trace silt, trace gravel, brick (moist) [FILL]	1	PD-1 B				0.2	
	N/A	Light brown CLAY, trace fine sand, trace gravel, (<1/32 inch ribbon) (moist) [FILL]	2	M-1A	Macrocore			0.0	
	N/A	Dark brown fine SAND, trace silt, trace gravel, brick (moist) [FILL]	3	M-1B	Macrocore	40/54		0.0	
	N/A	Dark brown fine SAND, trace silt, trace gravel, wood (moist) [FILL]	4	M-1C	Macrocore			0.0	
	N/A		5					5.5	
	N/A		6	M-2A	Macrocore			3.7	
	N/A		7					33.2	
	N/A	Light brown fine SAND, trace silt, trace fine subrounded gravel (wet) [SP-SM]	8		Macrocore	39/60		51.7	
	N/A		9	M-2B	Macrocore			13.8	
	N/A	Light brown fine SAND, trace silt, trace fine gravel (wet) [SP-SM]	10					7.3	
	N/A		11					34.1	
	N/A		12	M-3	Macrocore	58/60		15.1	
	N/A		13					41.4	
	N/A		14					25.6	
	N/A		15					9.5	
	N/A		16					19.3	
	N/A		17	M-4	Macrocore	59/60		1.9	
	N/A		18					43.0	
	N/A		19					60.8	
	N/A		20					68.4	
	N/A	End of Boring at 20.0ft.	21					31.2	
	N/A		22					36.0	
	N/A		23					4.7	
	N/A		24					0.4	

Project 145-165 Wolcott Street			Project No. 170562203		
Location Brooklyn, New York			Elevation and Datum N/A		
Drilling Company Coastal Environmental Solutions, Inc.			Date Started 6/21/2024	Date Finished 6/21/2024	
Drilling Equipment Geoprobe 6011DT			Completion Depth 20.0 ft	Rock Depth Not Encountered	
Size and Type of Bit 2.25 in OD-2.0 in ID Direct Push			Number of Samples 4	Disturbed 0	Undisturbed 0
Casing Diameter (in) N/A	Casing Depth (ft) N/A		Water Level (ft.) First $\nabla$ 10.0	Completion $\nabla$ N/A	24 HR. $\nabla$ N/A
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A	Drilling Foreman Nick Turro		
Sampler 60-inch Macrocore			Field Engineer Lisa Cristiano		
Casing Hammer N/A	Weight (lbs) N/A	Drop (in) N/A			

Material Symbol	Elev. (ft)	Sample Description	Depth Scale	Sample Data				Remarks (Drilling Fluid, Casing Depth, Fluid Loss, Drilling Resistance, etc.)	
				Number	Type	Recov. (ft)	Penetr. resist BL/6in		PID Reading (ppm)
	N/A	ASPHALT	0	PD-1 A	DIS	0/6		0.0	Langan Utility Clearance Exempted by Shareholder
	N/A	Dark gray to dark brown fine SAND, trace silt, trace fine subangular gravel, coal, coal ash (moist) [FILL]	1	PD-1 B				0.9	
			2					0.0	
			3	M-1	Macrocore	42/54		0.0	WC15_COMP_0-6
			4					10.2	3.5-ft to 4-ft- Creosote-like odor, black staining
		Dark gray to dark brown fine SAND, trace silt, trace fine gravel, coal, coal ash (moist) [FILL]	5					0.9	5-ft to 6-ft- Creosote-like odor, black staining, positive sheen test, pooled product
			6					2.2	WC15_COMP_0-6
			7					16.8	6-ft to 8-ft- Citrus-like odor
			8	M-2	Macrocore	42/60		34.5	yellow sticky tarlike (6.5-70)
			9					7.5	6.5-ft to 7-ft- Citrus/adhesive-like odor, yellow staining, tacky tar-like material within sediment
			10					1.9	WC15F_GRAB_9-11
	N/A	Light brown to black fine SAND, trace silt (wet) [SP-SM]	10					21.8	10-ft to 12.5-ft- Petroleum-like odor, black staining
			11					55.5	WC15_COMP_6-12
			12					8.4	
			13	M-3	Macrocore	36/60		26.1	
			14					48.0	WC15F_GRAB_14-16
			15					43.4	
		Dark gray to dark brown fine SAND, trace silt (wet) [SP-SM]	15					23.7	15-ft to 18-ft- Petroleum-like odor, black staining
			16					33.0	WC15_COMP_12-16
			17					56.2	
			18	M-4	Macrocore	39/60		30.7	
			19					62.6	
			20					44.6	
		End of Boring at 20.0ft.	20					40.4	
			21						Boring backfilled to surface grade with clean soil cuttings and No. 2 sand. Capped at grade with asphalt.
			22						
			23						
			24						

**ATTACHMENT 4**

**LABORATORY ANALYTICAL REPORTS**



## ANALYTICAL REPORT

Lab Number:	L2433440
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Nicholas Palumbo
Phone:	(212) 479-5435
Project Name:	145-165 WOLCOTT STREET
Project Number:	170562203
Report Date:	06/27/24

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).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2433440

Report Date: 06/27/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2433440-01	WC01A_0-1	SOIL	145-165 WOLCOTT STREET	06/13/24 10:35	06/13/24
L2433440-02	WC01B_1-2	SOIL	145-165 WOLCOTT STREET	06/13/24 10:40	06/13/24
L2433440-03	WC01C_1-2	SOIL	145-165 WOLCOTT STREET	06/13/24 10:45	06/13/24
L2433440-04	WC01D_3-4	SOIL	145-165 WOLCOTT STREET	06/13/24 10:50	06/13/24
L2433440-05	WC01B_2-3	SOIL	145-165 WOLCOTT STREET	06/13/24 10:55	06/13/24
L2433440-06	WC05A_0-1	SOIL	145-165 WOLCOTT STREET	06/13/24 11:35	06/13/24
L2433440-07	WC05B_1-2	SOIL	145-165 WOLCOTT STREET	06/13/24 11:40	06/13/24
L2433440-08	WC05C_3-4	SOIL	145-165 WOLCOTT STREET	06/13/24 11:45	06/13/24
L2433440-09	WC05D_0-1	SOIL	145-165 WOLCOTT STREET	06/13/24 11:50	06/13/24
L2433440-10	WC05D_2-3	SOIL	145-165 WOLCOTT STREET	06/13/24 11:55	06/13/24
L2433440-11	WC10A_0-1	SOIL	145-165 WOLCOTT STREET	06/13/24 13:25	06/13/24
L2433440-12	WC10B_1-2	SOIL	145-165 WOLCOTT STREET	06/13/24 13:30	06/13/24
L2433440-13	WC10C_2-3	SOIL	145-165 WOLCOTT STREET	06/13/24 13:35	06/13/24
L2433440-14	WC10D_3-4	SOIL	145-165 WOLCOTT STREET	06/13/24 13:40	06/13/24
L2433440-15	WC10D_0-1	SOIL	145-165 WOLCOTT STREET	06/13/24 13:45	06/13/24
L2433440-16	WC02A_3-4	SOIL	145-165 WOLCOTT STREET	06/13/24 14:55	06/13/24
L2433440-17	WC02B_0-1	SOIL	145-165 WOLCOTT STREET	06/13/24 15:00	06/13/24
L2433440-18	WC02C_1-2	SOIL	145-165 WOLCOTT STREET	06/13/24 15:05	06/13/24
L2433440-19	WC02D_2-3	SOIL	145-165 WOLCOTT STREET	06/13/24 15:10	06/13/24
L2433440-20	WC02D_3-4	SOIL	145-165 WOLCOTT STREET	06/13/24 15:20	06/13/24
L2433440-21	WC01D_GRAB_3-4	SOIL	145-165 WOLCOTT STREET	06/13/24 09:53	06/13/24
L2433440-22	WC01_COMP_0-4	SOIL	145-165 WOLCOTT STREET	06/13/24 11:00	06/13/24
L2433440-23	DUP01_COMP_061324	SOIL	145-165 WOLCOTT STREET	06/13/24 00:00	06/13/24
L2433440-24	DUP01_GRAB_061324	SOIL	145-165 WOLCOTT STREET	06/13/24 00:00	06/13/24



<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2433440-25	WC05A_GRAB_1-2	SOIL	145-165 WOLCOTT STREET	06/13/24 12:00	06/13/24
L2433440-26	WC05_COMP_0-4	SOIL	145-165 WOLCOTT STREET	06/13/24 12:05	06/13/24
L2433440-27	WC10_COMP_0-4	SOIL	145-165 WOLCOTT STREET	06/13/24 13:20	06/13/24
L2433440-28	WC10D_GRAB_2-3	SOIL	145-165 WOLCOTT STREET	06/13/24 13:15	06/13/24
L2433440-29	WC02_COMP_0-4	SOIL	145-165 WOLCOTT STREET	06/13/24 15:25	06/13/24
L2433440-30	WC02D_GRAB_3-4	SOIL	145-165 WOLCOTT STREET	06/13/24 14:50	06/13/24

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

### 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.

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**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

### Case Narrative (continued)

#### Report Submission

June 27, 2024: This final report includes the results of all requested analyses.

June 24, 2024: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Volatile Organics

L2433440-24: The sample was analyzed as a High Level Methanol based upon screen results. The sample was then analyzed as a Low Level in order to achieve lower reporting limits. The results of both analyses are reported. Differences were noted between the results of the analyses which have been attributed to vial discrepancies.

L2433440-28: The surrogate recovery is below the acceptance criteria for dibromofluoromethane (25%), possibly due to the matrix effect caused by the high pH of the sample (>10).

#### Semivolatile Organics

L2433440-22D and -26D: The sample has elevated detection limits due to the dilution required by the sample matrix.

L2433440-27: The surrogate recoveries were outside the acceptance criteria for 2-fluorophenol (1%) and 2,4,6-tribromophenol (1%); however, re-extraction achieved similar results: 2-fluorophenol (5%) and 2,4,6-tribromophenol (3%). The results of both extractions are reported; however, all associated compounds are considered to have a potential bias.

#### NJ EPH (Total)

L2433440-21D: The surrogate recoveries are outside the acceptance criteria for chloro-octadecane (584%) and o-terphenyl (1030%); however, the sample was not re-extracted due to coelution with obvious interferences.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

### Case Narrative (continued)

L2433440-24D: The surrogate recovery is outside the acceptance criteria for chloro-octadecane (152%); however, the sample was not re-extracted due to coelution with obvious interferences.

L2433440-30D: The surrogate recoveries are below the acceptance criteria for chloro-octadecane (0%) and o-terphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

WG1935056: An MS was not analyzed because the dilution required by the elevated concentrations of non-target compounds present in the native sample would have caused the spike compounds to be diluted below the range of calibration.

#### Pesticides

L2433440-22: The internal standard (IS) response for 1-bromo-2-nitrobenzene (271%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. Since the IS response was above method criteria, all associated compounds reported from this column are considered to have a potentially low bias. The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (26%) and decachlorobiphenyl (16%) due to interference with the Internal Standard.


L2433440-27: The internal standard (IS) response for 1-bromo-2-nitrobenzene (249%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. Since the IS response was above method criteria, all associated compounds reported from this column are considered to have a potentially low bias. The surrogate recovery is outside the method acceptance criteria for decachlorobiphenyl (20%) due to interference with the Internal Standard.

#### Total Metals

L2433440-22, -23, -26, -27 and -29: 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:

 Melissa Sturgis

Title: Technical Director/Representative

Date: 06/27/24

# ORGANICS

# VOLATILES

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

**Lab ID:** L2433440-21  
**Client ID:** WC01D\_GRAB\_3-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/13/24 09:53  
**Date Received:** 06/13/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260D  
**Analytical Date:** 06/19/24 14:16  
**Analyst:** JIC  
**Percent Solids:** 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	6.2	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.33	1
Tetrachloroethene	ND		ug/kg	0.62	0.24	1
Chlorobenzene	ND		ug/kg	0.62	0.16	1
Trichlorofluoromethane	ND		ug/kg	4.9	0.86	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.62	0.21	1
Bromodichloromethane	ND		ug/kg	0.62	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.62	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.62	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.62	0.20	1
Bromoform	ND		ug/kg	4.9	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.62	0.20	1
Benzene	ND		ug/kg	0.62	0.20	1
Toluene	ND		ug/kg	1.2	0.67	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.9	1.2	1
Bromomethane	ND		ug/kg	2.5	0.72	1
Vinyl chloride	ND		ug/kg	1.2	0.41	1
Chloroethane	ND		ug/kg	2.5	0.56	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.17	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433440**Project Number:** 170562203**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433440-21  
 Client ID: WC01D\_GRAB\_3-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 09:53  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.62	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.69	1
o-Xylene	ND		ug/kg	1.2	0.36	1
Xylenes, Total	ND		ug/kg	1.2	0.36	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
Dibromomethane	ND		ug/kg	2.5	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	220		ug/kg	12	5.9	1
Carbon disulfide	ND		ug/kg	12	5.6	1
2-Butanone	25		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.5	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.62	0.16	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.21	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.14	1
o-Chlorotoluene	ND		ug/kg	2.5	0.24	1
p-Chlorotoluene	ND		ug/kg	2.5	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.7	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.9	0.21	1
Isopropylbenzene	0.73	J	ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	ND		ug/kg	4.9	0.80	1
Acrylonitrile	ND		ug/kg	4.9	1.4	1
Tert-Butyl Alcohol	ND		ug/kg	25	6.3	1



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-21  
 Client ID: WC01D\_GRAB\_3-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 09:53  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.41	1
Methyl Acetate	ND		ug/kg	4.9	1.2	1
Acrolein	ND		ug/kg	31	6.9	1
Cyclohexane	1.3	J	ug/kg	12	0.67	1
1,4-Dioxane	ND		ug/kg	99	43.	1
Freon-113	ND		ug/kg	4.9	0.86	1
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1
p-Ethyltoluene	ND		ug/kg	2.5	0.47	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.5	0.24	1
Ethyl ether	ND		ug/kg	2.5	0.42	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.2	1.8	1
Methyl cyclohexane	2.1	J	ug/kg	4.9	0.74	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	98		70-130
Dibromofluoromethane	103		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-24  
 Client ID: DUP01\_GRAB\_061324  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 00:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/19/24 17:19  
 Analyst: JIC  
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	400	180	1
1,1-Dichloroethane	ND		ug/kg	80	12.	1
Chloroform	ND		ug/kg	120	11.	1
Carbon tetrachloride	ND		ug/kg	80	18.	1
1,2-Dichloropropane	ND		ug/kg	80	10.	1
Dibromochloromethane	ND		ug/kg	80	11.	1
1,1,2-Trichloroethane	ND		ug/kg	80	21.	1
Tetrachloroethene	ND		ug/kg	40	16.	1
Chlorobenzene	ND		ug/kg	40	10.	1
Trichlorofluoromethane	ND		ug/kg	320	56.	1
1,2-Dichloroethane	ND		ug/kg	80	21.	1
1,1,1-Trichloroethane	ND		ug/kg	40	13.	1
Bromodichloromethane	ND		ug/kg	40	8.7	1
trans-1,3-Dichloropropene	ND		ug/kg	80	22.	1
cis-1,3-Dichloropropene	ND		ug/kg	40	13.	1
1,3-Dichloropropene, Total	ND		ug/kg	40	13.	1
1,1-Dichloropropene	ND		ug/kg	40	13.	1
Bromoform	ND		ug/kg	320	20.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	40	13.	1
Benzene	42		ug/kg	40	13.	1
Toluene	100		ug/kg	80	44.	1
Ethylbenzene	130		ug/kg	80	11.	1
Chloromethane	ND		ug/kg	320	75.	1
Bromomethane	ND		ug/kg	160	47.	1
Vinyl chloride	ND		ug/kg	80	27.	1
Chloroethane	ND		ug/kg	160	36.	1
1,1-Dichloroethene	ND		ug/kg	80	19.	1
trans-1,2-Dichloroethene	ND		ug/kg	120	11.	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433440**Project Number:** 170562203**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433440-24  
 Client ID: DUP01\_GRAB\_061324  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 00:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	40	11.	1
1,2-Dichlorobenzene	ND		ug/kg	160	12.	1
1,3-Dichlorobenzene	ND		ug/kg	160	12.	1
1,4-Dichlorobenzene	ND		ug/kg	160	14.	1
Methyl tert butyl ether	ND		ug/kg	160	16.	1
p/m-Xylene	180		ug/kg	160	45.	1
o-Xylene	77	J	ug/kg	80	23.	1
Xylenes, Total	260	J	ug/kg	80	23.	1
cis-1,2-Dichloroethene	ND		ug/kg	80	14.	1
Dibromomethane	ND		ug/kg	160	19.	1
Styrene	ND		ug/kg	80	16.	1
Dichlorodifluoromethane	ND		ug/kg	800	73.	1
Acetone	1000		ug/kg	800	390	1
Carbon disulfide	ND		ug/kg	800	360	1
2-Butanone	ND		ug/kg	800	180	1
Vinyl acetate	ND		ug/kg	800	170	1
4-Methyl-2-pentanone	ND		ug/kg	800	100	1
1,2,3-Trichloropropane	ND		ug/kg	160	10.	1
2-Hexanone	ND		ug/kg	800	95.	1
Bromochloromethane	ND		ug/kg	160	16.	1
2,2-Dichloropropane	ND		ug/kg	160	16.	1
1,2-Dibromoethane	ND		ug/kg	80	22.	1
1,3-Dichloropropane	ND		ug/kg	160	13.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	40	10.	1
Bromobenzene	ND		ug/kg	160	12.	1
n-Butylbenzene	100		ug/kg	80	13.	1
sec-Butylbenzene	34	J	ug/kg	80	12.	1
tert-Butylbenzene	ND		ug/kg	160	9.5	1
o-Chlorotoluene	ND		ug/kg	160	15.	1
p-Chlorotoluene	ND		ug/kg	160	8.7	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	240	80.	1
Hexachlorobutadiene	ND		ug/kg	320	14.	1
Isopropylbenzene	58	J	ug/kg	80	8.7	1
p-Isopropyltoluene	250		ug/kg	80	8.7	1
Naphthalene	120	J	ug/kg	320	52.	1
Acrylonitrile	ND		ug/kg	320	92.	1
Tert-Butyl Alcohol	ND		ug/kg	1600	410	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-24  
 Client ID: DUP01\_GRAB\_061324  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 00:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
n-Propylbenzene	130		ug/kg	80	14.	1
1,2,3-Trichlorobenzene	ND		ug/kg	160	26.	1
1,2,4-Trichlorobenzene	ND		ug/kg	160	22.	1
1,3,5-Trimethylbenzene	19	J	ug/kg	160	15.	1
1,2,4-Trimethylbenzene	92	J	ug/kg	160	27.	1
Methyl Acetate	ND		ug/kg	320	76.	1
Acrolein	ND		ug/kg	2000	450	1
Cyclohexane	1600		ug/kg	800	44.	1
1,4-Dioxane	ND		ug/kg	6400	2800	1
Freon-113	ND		ug/kg	320	56.	1
p-Diethylbenzene	18	J	ug/kg	160	14.	1
p-Ethyltoluene	220		ug/kg	160	31.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	160	15.	1
Ethyl ether	ND		ug/kg	160	27.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	400	110	1
Methyl cyclohexane	170	J	ug/kg	320	48.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	97		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-24  
 Client ID: DUP01\_GRAB\_061324  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 00:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/20/24 12:20  
 Analyst: LAC  
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	13	5.9	1
1,1-Dichloroethane	ND		ug/kg	2.6	0.37	1
Chloroform	ND		ug/kg	3.9	0.36	1
Carbon tetrachloride	ND		ug/kg	2.6	0.59	1
1,2-Dichloropropane	ND		ug/kg	2.6	0.32	1
Dibromochloromethane	ND		ug/kg	2.6	0.36	1
1,1,2-Trichloroethane	ND		ug/kg	2.6	0.69	1
Tetrachloroethene	ND		ug/kg	1.3	0.50	1
Chlorobenzene	ND		ug/kg	1.3	0.33	1
Trichlorofluoromethane	ND		ug/kg	10	1.8	1
1,2-Dichloroethane	ND		ug/kg	2.6	0.66	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.43	1
Bromodichloromethane	ND		ug/kg	1.3	0.28	1
trans-1,3-Dichloropropene	ND		ug/kg	2.6	0.70	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.41	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	0.41	1
1,1-Dichloropropene	ND		ug/kg	1.3	0.41	1
Bromoform	ND		ug/kg	10	0.63	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.43	1
Benzene	4.1		ug/kg	1.3	0.43	1
Toluene	5.6		ug/kg	2.6	1.4	1
Ethylbenzene	4.7		ug/kg	2.6	0.36	1
Chloromethane	ND		ug/kg	10	2.4	1
Bromomethane	ND		ug/kg	5.2	1.5	1
Vinyl chloride	ND		ug/kg	2.6	0.86	1
Chloroethane	ND		ug/kg	5.2	1.2	1
1,1-Dichloroethene	ND		ug/kg	2.6	0.61	1
trans-1,2-Dichloroethene	ND		ug/kg	3.9	0.35	1

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433440-24  
 Client ID: DUP01\_GRAB\_061324  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 00:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	1.3	0.35	1
1,2-Dichlorobenzene	ND		ug/kg	5.2	0.37	1
1,3-Dichlorobenzene	ND		ug/kg	5.2	0.38	1
1,4-Dichlorobenzene	ND		ug/kg	5.2	0.44	1
Methyl tert butyl ether	ND		ug/kg	5.2	0.52	1
p/m-Xylene	13		ug/kg	5.2	1.4	1
o-Xylene	5.9		ug/kg	2.6	0.75	1
Xylenes, Total	19		ug/kg	2.6	0.75	1
cis-1,2-Dichloroethene	ND		ug/kg	2.6	0.45	1
Dibromomethane	ND		ug/kg	5.2	0.61	1
Styrene	ND		ug/kg	2.6	0.50	1
Dichlorodifluoromethane	ND		ug/kg	26	2.4	1
Acetone	360		ug/kg	26	12.	1
Carbon disulfide	ND		ug/kg	26	12.	1
2-Butanone	94		ug/kg	26	5.7	1
Vinyl acetate	ND		ug/kg	26	5.5	1
4-Methyl-2-pentanone	ND		ug/kg	26	3.3	1
1,2,3-Trichloropropane	ND		ug/kg	5.2	0.33	1
2-Hexanone	12	J	ug/kg	26	3.0	1
Bromochloromethane	ND		ug/kg	5.2	0.53	1
2,2-Dichloropropane	ND		ug/kg	5.2	0.52	1
1,2-Dibromoethane	ND		ug/kg	2.6	0.72	1
1,3-Dichloropropane	ND		ug/kg	5.2	0.43	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.34	1
Bromobenzene	ND		ug/kg	5.2	0.37	1
n-Butylbenzene	2.8		ug/kg	2.6	0.43	1
sec-Butylbenzene	1.4	J	ug/kg	2.6	0.38	1
tert-Butylbenzene	ND		ug/kg	5.2	0.30	1
o-Chlorotoluene	ND		ug/kg	5.2	0.49	1
p-Chlorotoluene	ND		ug/kg	5.2	0.28	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.7	2.6	1
Hexachlorobutadiene	ND		ug/kg	10	0.44	1
Isopropylbenzene	5.4		ug/kg	2.6	0.28	1
p-Isopropyltoluene	6.2		ug/kg	2.6	0.28	1
Naphthalene	7.1	J	ug/kg	10	1.7	1
Acrylonitrile	ND		ug/kg	10	3.0	1
Tert-Butyl Alcohol	ND		ug/kg	52	13.	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-24  
 Client ID: DUP01\_GRAB\_061324  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 00:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	5.4		ug/kg	2.6	0.44	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.2	0.83	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.2	0.70	1
1,3,5-Trimethylbenzene	2.5	J	ug/kg	5.2	0.50	1
1,2,4-Trimethylbenzene	7.8		ug/kg	5.2	0.86	1
Methyl Acetate	ND		ug/kg	10	2.4	1
Acrolein	ND		ug/kg	64	14.	1
Cyclohexane	2.0	J	ug/kg	26	1.4	1
1,4-Dioxane	ND		ug/kg	210	90.	1
Freon-113	ND		ug/kg	10	1.8	1
p-Diethylbenzene	11		ug/kg	5.2	0.46	1
p-Ethyltoluene	12		ug/kg	5.2	0.99	1
1,2,4,5-Tetramethylbenzene	0.75	J	ug/kg	5.2	0.49	1
Ethyl ether	ND		ug/kg	5.2	0.88	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	13	3.7	1
Methyl cyclohexane	8.3	J	ug/kg	10	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	126		70-130
Dibromofluoromethane	96		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-25  
 Client ID: WC05A\_GRAB\_1-2  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 12:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/19/24 14:42  
 Analyst: JIC  
 Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	6.3	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.2	0.29	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.16	1
Dibromochloromethane	ND		ug/kg	1.2	0.18	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.34	1
Tetrachloroethene	2.9		ug/kg	0.63	0.25	1
Chlorobenzene	ND		ug/kg	0.63	0.16	1
Trichlorofluoromethane	ND		ug/kg	5.0	0.87	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.32	1
1,1,1-Trichloroethane	ND		ug/kg	0.63	0.21	1
Bromodichloromethane	ND		ug/kg	0.63	0.14	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.34	1
cis-1,3-Dichloropropene	ND		ug/kg	0.63	0.20	1
1,3-Dichloropropene, Total	ND		ug/kg	0.63	0.20	1
1,1-Dichloropropene	ND		ug/kg	0.63	0.20	1
Bromoform	ND		ug/kg	5.0	0.31	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.63	0.21	1
Benzene	ND		ug/kg	0.63	0.21	1
Toluene	ND		ug/kg	1.2	0.68	1
Ethylbenzene	ND		ug/kg	1.2	0.18	1
Chloromethane	ND		ug/kg	5.0	1.2	1
Bromomethane	ND		ug/kg	2.5	0.73	1
Vinyl chloride	ND		ug/kg	1.2	0.42	1
Chloroethane	ND		ug/kg	2.5	0.57	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433440**Project Number:** 170562203**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433440-25  
 Client ID: WC05A\_GRAB\_1-2  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 12:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.63	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.5	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.5	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.5	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.5	0.25	1
p/m-Xylene	ND		ug/kg	2.5	0.70	1
o-Xylene	ND		ug/kg	1.2	0.37	1
Xylenes, Total	ND		ug/kg	1.2	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.22	1
Dibromomethane	ND		ug/kg	2.5	0.30	1
Styrene	ND		ug/kg	1.2	0.25	1
Dichlorodifluoromethane	ND		ug/kg	12	1.2	1
Acetone	6.3	J	ug/kg	12	6.0	1
Carbon disulfide	ND		ug/kg	12	5.7	1
2-Butanone	ND		ug/kg	12	2.8	1
Vinyl acetate	ND		ug/kg	12	2.7	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.5	0.16	1
2-Hexanone	ND		ug/kg	12	1.5	1
Bromochloromethane	ND		ug/kg	2.5	0.26	1
2,2-Dichloropropane	ND		ug/kg	2.5	0.25	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.35	1
1,3-Dichloropropane	ND		ug/kg	2.5	0.21	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.63	0.17	1
Bromobenzene	ND		ug/kg	2.5	0.18	1
n-Butylbenzene	ND		ug/kg	1.2	0.21	1
sec-Butylbenzene	ND		ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.5	0.15	1
o-Chlorotoluene	ND		ug/kg	2.5	0.24	1
p-Chlorotoluene	ND		ug/kg	2.5	0.14	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.8	1.2	1
Hexachlorobutadiene	ND		ug/kg	5.0	0.21	1
Isopropylbenzene	ND		ug/kg	1.2	0.14	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.14	1
Naphthalene	ND		ug/kg	5.0	0.82	1
Acrylonitrile	ND		ug/kg	5.0	1.4	1
Tert-Butyl Alcohol	ND		ug/kg	25	6.5	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-25  
 Client ID: WC05A\_GRAB\_1-2  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 12:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.22	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.5	0.40	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.5	0.34	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.5	0.24	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.5	0.42	1
Methyl Acetate	ND		ug/kg	5.0	1.2	1
Acrolein	ND		ug/kg	31	7.1	1
Cyclohexane	ND		ug/kg	12	0.68	1
1,4-Dioxane	ND		ug/kg	100	44.	1
Freon-113	ND		ug/kg	5.0	0.87	1
p-Diethylbenzene	ND		ug/kg	2.5	0.22	1
p-Ethyltoluene	ND		ug/kg	2.5	0.48	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.5	0.24	1
Ethyl ether	ND		ug/kg	2.5	0.43	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.3	1.8	1
Methyl cyclohexane	ND		ug/kg	5.0	0.76	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	104		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-28  
 Client ID: WC10D\_GRAB\_2-3  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 13:15  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/19/24 15:08  
 Analyst: JIC  
 Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	11	5.1	1
1,1-Dichloroethane	ND		ug/kg	2.2	0.32	1
Chloroform	ND		ug/kg	3.3	0.31	1
Carbon tetrachloride	ND		ug/kg	2.2	0.51	1
1,2-Dichloropropane	ND		ug/kg	2.2	0.28	1
Dibromochloromethane	ND		ug/kg	2.2	0.31	1
1,1,2-Trichloroethane	ND		ug/kg	2.2	0.60	1
Tetrachloroethene	1.7		ug/kg	1.1	0.44	1
Chlorobenzene	ND		ug/kg	1.1	0.28	1
Trichlorofluoromethane	ND		ug/kg	8.9	1.5	1
1,2-Dichloroethane	ND		ug/kg	2.2	0.57	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.37	1
Bromodichloromethane	ND		ug/kg	1.1	0.24	1
trans-1,3-Dichloropropene	ND		ug/kg	2.2	0.61	1
cis-1,3-Dichloropropene	ND		ug/kg	1.1	0.35	1
1,3-Dichloropropene, Total	ND		ug/kg	1.1	0.35	1
1,1-Dichloropropene	ND		ug/kg	1.1	0.35	1
Bromoform	ND		ug/kg	8.9	0.55	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.1	0.37	1
Benzene	ND		ug/kg	1.1	0.37	1
Toluene	ND		ug/kg	2.2	1.2	1
Ethylbenzene	ND		ug/kg	2.2	0.31	1
Chloromethane	ND		ug/kg	8.9	2.1	1
Bromomethane	ND		ug/kg	4.4	1.3	1
Vinyl chloride	ND		ug/kg	2.2	0.75	1
Chloroethane	ND		ug/kg	4.4	1.0	1
1,1-Dichloroethene	ND		ug/kg	2.2	0.53	1
trans-1,2-Dichloroethene	ND		ug/kg	3.3	0.30	1

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433440-28  
 Client ID: WC10D\_GRAB\_2-3  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 13:15  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	1.1	0.30	1
1,2-Dichlorobenzene	ND		ug/kg	4.4	0.32	1
1,3-Dichlorobenzene	ND		ug/kg	4.4	0.33	1
1,4-Dichlorobenzene	ND		ug/kg	4.4	0.38	1
Methyl tert butyl ether	ND		ug/kg	4.4	0.45	1
p/m-Xylene	ND		ug/kg	4.4	1.2	1
o-Xylene	ND		ug/kg	2.2	0.65	1
Xylenes, Total	ND		ug/kg	2.2	0.65	1
cis-1,2-Dichloroethene	ND		ug/kg	2.2	0.39	1
Dibromomethane	ND		ug/kg	4.4	0.53	1
Styrene	ND		ug/kg	2.2	0.44	1
Dichlorodifluoromethane	ND		ug/kg	22	2.0	1
Acetone	180		ug/kg	22	11.	1
Carbon disulfide	ND		ug/kg	22	10.	1
2-Butanone	20	J	ug/kg	22	5.0	1
Vinyl acetate	ND		ug/kg	22	4.8	1
4-Methyl-2-pentanone	ND		ug/kg	22	2.8	1
1,2,3-Trichloropropane	ND		ug/kg	4.4	0.28	1
2-Hexanone	ND		ug/kg	22	2.6	1
Bromochloromethane	ND		ug/kg	4.4	0.46	1
2,2-Dichloropropane	ND		ug/kg	4.4	0.45	1
1,2-Dibromoethane	ND		ug/kg	2.2	0.62	1
1,3-Dichloropropane	ND		ug/kg	4.4	0.37	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.1	0.29	1
Bromobenzene	ND		ug/kg	4.4	0.32	1
n-Butylbenzene	ND		ug/kg	2.2	0.37	1
sec-Butylbenzene	ND		ug/kg	2.2	0.32	1
tert-Butylbenzene	ND		ug/kg	4.4	0.26	1
o-Chlorotoluene	ND		ug/kg	4.4	0.42	1
p-Chlorotoluene	ND		ug/kg	4.4	0.24	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.7	2.2	1
Hexachlorobutadiene	ND		ug/kg	8.9	0.38	1
Isopropylbenzene	ND		ug/kg	2.2	0.24	1
p-Isopropyltoluene	21		ug/kg	2.2	0.24	1
Naphthalene	ND		ug/kg	8.9	1.4	1
Acrylonitrile	ND		ug/kg	8.9	2.6	1
Tert-Butyl Alcohol	ND		ug/kg	44	11.	1

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-28  
 Client ID: WC10D\_GRAB\_2-3  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 13:15  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	2.2	0.38	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.4	0.72	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.4	0.61	1
1,3,5-Trimethylbenzene	ND		ug/kg	4.4	0.43	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.4	0.74	1
Methyl Acetate	ND		ug/kg	8.9	2.1	1
Acrolein	ND		ug/kg	56	12.	1
Cyclohexane	ND		ug/kg	22	1.2	1
1,4-Dioxane	ND		ug/kg	180	78.	1
Freon-113	ND		ug/kg	8.9	1.5	1
p-Diethylbenzene	ND		ug/kg	4.4	0.39	1
p-Ethyltoluene	ND		ug/kg	4.4	0.86	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.4	0.42	1
Ethyl ether	ND		ug/kg	4.4	0.76	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	11	3.2	1
Methyl cyclohexane	ND		ug/kg	8.9	1.3	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	93		70-130
Dibromofluoromethane	25	Q	70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-30  
 Client ID: WC02D\_GRAB\_3-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 14:50  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/19/24 15:34  
 Analyst: JIC  
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	9.5	4.4	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.28	1
Chloroform	ND		ug/kg	2.8	0.27	1
Carbon tetrachloride	ND		ug/kg	1.9	0.44	1
1,2-Dichloropropane	ND		ug/kg	1.9	0.24	1
Dibromochloromethane	ND		ug/kg	1.9	0.27	1
1,1,2-Trichloroethane	ND		ug/kg	1.9	0.51	1
Tetrachloroethene	ND		ug/kg	0.95	0.37	1
Chlorobenzene	ND		ug/kg	0.95	0.24	1
Trichlorofluoromethane	ND		ug/kg	7.6	1.3	1
1,2-Dichloroethane	ND		ug/kg	1.9	0.49	1
1,1,1-Trichloroethane	ND		ug/kg	0.95	0.32	1
Bromodichloromethane	ND		ug/kg	0.95	0.21	1
trans-1,3-Dichloropropene	ND		ug/kg	1.9	0.52	1
cis-1,3-Dichloropropene	ND		ug/kg	0.95	0.30	1
1,3-Dichloropropene, Total	ND		ug/kg	0.95	0.30	1
1,1-Dichloropropene	ND		ug/kg	0.95	0.30	1
Bromoform	ND		ug/kg	7.6	0.47	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.95	0.32	1
Benzene	ND		ug/kg	0.95	0.32	1
Toluene	ND		ug/kg	1.9	1.0	1
Ethylbenzene	0.37	J	ug/kg	1.9	0.27	1
Chloromethane	ND		ug/kg	7.6	1.8	1
Bromomethane	ND		ug/kg	3.8	1.1	1
Vinyl chloride	ND		ug/kg	1.9	0.64	1
Chloroethane	ND		ug/kg	3.8	0.86	1
1,1-Dichloroethene	ND		ug/kg	1.9	0.45	1
trans-1,2-Dichloroethene	ND		ug/kg	2.8	0.26	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433440**Project Number:** 170562203**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433440-30  
 Client ID: WC02D\_GRAB\_3-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 14:50  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.95	0.26	1
1,2-Dichlorobenzene	ND		ug/kg	3.8	0.27	1
1,3-Dichlorobenzene	ND		ug/kg	3.8	0.28	1
1,4-Dichlorobenzene	ND		ug/kg	3.8	0.32	1
Methyl tert butyl ether	ND		ug/kg	3.8	0.38	1
p/m-Xylene	1.3	J	ug/kg	3.8	1.1	1
o-Xylene	ND		ug/kg	1.9	0.55	1
Xylenes, Total	1.3	J	ug/kg	1.9	0.55	1
cis-1,2-Dichloroethene	ND		ug/kg	1.9	0.33	1
Dibromomethane	ND		ug/kg	3.8	0.45	1
Styrene	ND		ug/kg	1.9	0.37	1
Dichlorodifluoromethane	ND		ug/kg	19	1.7	1
Acetone	300		ug/kg	19	9.2	1
Carbon disulfide	ND		ug/kg	19	8.7	1
2-Butanone	44		ug/kg	19	4.2	1
Vinyl acetate	ND		ug/kg	19	4.1	1
4-Methyl-2-pentanone	ND		ug/kg	19	2.4	1
1,2,3-Trichloropropane	ND		ug/kg	3.8	0.24	1
2-Hexanone	ND		ug/kg	19	2.2	1
Bromochloromethane	ND		ug/kg	3.8	0.39	1
2,2-Dichloropropane	ND		ug/kg	3.8	0.38	1
1,2-Dibromoethane	ND		ug/kg	1.9	0.53	1
1,3-Dichloropropane	ND		ug/kg	3.8	0.32	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.95	0.25	1
Bromobenzene	ND		ug/kg	3.8	0.28	1
n-Butylbenzene	ND		ug/kg	1.9	0.32	1
sec-Butylbenzene	ND		ug/kg	1.9	0.28	1
tert-Butylbenzene	ND		ug/kg	3.8	0.22	1
o-Chlorotoluene	ND		ug/kg	3.8	0.36	1
p-Chlorotoluene	ND		ug/kg	3.8	0.20	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.7	1.9	1
Hexachlorobutadiene	ND		ug/kg	7.6	0.32	1
Isopropylbenzene	1.2	J	ug/kg	1.9	0.21	1
p-Isopropyltoluene	1.2	J	ug/kg	1.9	0.21	1
Naphthalene	ND		ug/kg	7.6	1.2	1
Acrylonitrile	ND		ug/kg	7.6	2.2	1
Tert-Butyl Alcohol	ND		ug/kg	38	9.8	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-30  
 Client ID: WC02D\_GRAB\_3-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 14:50  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	0.51	J	ug/kg	1.9	0.32	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.8	0.61	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.8	0.52	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.8	0.37	1
1,2,4-Trimethylbenzene	0.71	J	ug/kg	3.8	0.64	1
Methyl Acetate	ND		ug/kg	7.6	1.8	1
Acrolein	ND		ug/kg	48	11.	1
Cyclohexane	1.3	J	ug/kg	19	1.0	1
1,4-Dioxane	ND		ug/kg	150	67.	1
Freon-113	ND		ug/kg	7.6	1.3	1
p-Diethylbenzene	ND		ug/kg	3.8	0.34	1
p-Ethyltoluene	0.88	J	ug/kg	3.8	0.73	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.8	0.36	1
Ethyl ether	ND		ug/kg	3.8	0.65	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	9.5	2.7	1
Methyl cyclohexane	5.6	J	ug/kg	7.6	1.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	102		70-130



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/19/24 08:09  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 24 Batch: WG1936494-5					
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
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
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	ND		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

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis  
 Batch Quality Control**

Analytical Method: 1,8260D  
 Analytical Date: 06/19/24 08:09  
 Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 24 Batch: WG1936494-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
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.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Dibromomethane	ND		ug/kg	100	12.
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
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6
p-Chlorotoluene	ND		ug/kg	100	5.4

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/19/24 08:09  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 24 Batch: WG1936494-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
Tert-Butyl Alcohol	ND		ug/kg	1000	260
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
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.
Acrolein	ND		ug/kg	1200	280
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.
Methyl cyclohexane	ND		ug/kg	200	30.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/19/24 08:09  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 24 Batch: WG1936494-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	101		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/19/24 08:09  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 21,25,28,30 Batch: WG1936589-5					
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
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-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

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/19/24 08:09  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 21,25,28,30 Batch: WG1936589-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
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
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Dibromomethane	ND		ug/kg	2.0	0.24
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
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
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
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/19/24 08:09  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 21,25,28,30 Batch: WG1936589-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
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
Acrylonitrile	ND		ug/kg	4.0	1.2
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
Acrolein	ND		ug/kg	25	5.6
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Methyl cyclohexane	ND		ug/kg	4.0	0.60

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/19/24 08:09  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 21,25,28,30 Batch: WG1936589-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	101		70-130



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/20/24 08:05  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 24 Batch: WG1937146-5					
Methylene chloride	4.2	J	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
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-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

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/20/24 08:05  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 24 Batch: WG1937146-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
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
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Dibromomethane	ND		ug/kg	2.0	0.24
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
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
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
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/20/24 08:05  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 24 Batch: WG1937146-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
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
Acrylonitrile	ND		ug/kg	4.0	1.2
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
Acrolein	ND		ug/kg	25	5.6
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Methyl cyclohexane	ND		ug/kg	4.0	0.60

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/20/24 08:05  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 24 Batch: WG1937146-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	105		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 24 Batch: WG1936494-3 WG1936494-4								
Methylene chloride	103		95		70-130	8		30
1,1-Dichloroethane	100		92		70-130	8		30
Chloroform	98		90		70-130	9		30
Carbon tetrachloride	102		94		70-130	8		30
1,2-Dichloropropane	97		90		70-130	7		30
Dibromochloromethane	95		91		70-130	4		30
1,1,2-Trichloroethane	94		88		70-130	7		30
Tetrachloroethene	106		96		70-130	10		30
Chlorobenzene	96		89		70-130	8		30
Trichlorofluoromethane	114		103		70-139	10		30
1,2-Dichloroethane	95		90		70-130	5		30
1,1,1-Trichloroethane	104		96		70-130	8		30
Bromodichloromethane	95		90		70-130	5		30
trans-1,3-Dichloropropene	94		87		70-130	8		30
cis-1,3-Dichloropropene	98		92		70-130	6		30
1,1-Dichloropropene	108		98		70-130	10		30
Bromoform	92		89		70-130	3		30
1,1,2,2-Tetrachloroethane	96		89		70-130	8		30
Benzene	100		92		70-130	8		30
Toluene	100		92		70-130	8		30
Ethylbenzene	95		86		70-130	10		30
Chloromethane	108		97		52-130	11		30
Bromomethane	121		110		57-147	10		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 24 Batch: WG1936494-3 WG1936494-4								
Vinyl chloride	110		98		67-130	12		30
Chloroethane	106		94		50-151	12		30
1,1-Dichloroethene	106		97		65-135	9		30
trans-1,2-Dichloroethene	102		94		70-130	8		30
Trichloroethene	100		93		70-130	7		30
1,2-Dichlorobenzene	95		89		70-130	7		30
1,3-Dichlorobenzene	98		90		70-130	9		30
1,4-Dichlorobenzene	96		89		70-130	8		30
Methyl tert butyl ether	94		90		66-130	4		30
p/m-Xylene	97		89		70-130	9		30
o-Xylene	96		89		70-130	8		30
cis-1,2-Dichloroethene	98		91		70-130	7		30
Dibromomethane	95		91		70-130	4		30
Styrene	100		94		70-130	6		30
Dichlorodifluoromethane	119		107		30-146	11		30
Acetone	99		92		54-140	7		30
Carbon disulfide	103		94		59-130	9		30
2-Butanone	93		89		70-130	4		30
Vinyl acetate	124		112		70-130	10		30
4-Methyl-2-pentanone	95		89		70-130	7		30
1,2,3-Trichloropropane	93		87		68-130	7		30
2-Hexanone	95		90		70-130	5		30
Bromochloromethane	98		93		70-130	5		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 24 Batch: WG1936494-3 WG1936494-4								
2,2-Dichloropropane	99		90		70-130	10		30
1,2-Dibromoethane	97		92		70-130	5		30
1,3-Dichloropropane	94		88		69-130	7		30
1,1,1,2-Tetrachloroethane	95		89		70-130	7		30
Bromobenzene	93		87		70-130	7		30
n-Butylbenzene	102		92		70-130	10		30
sec-Butylbenzene	99		89		70-130	11		30
tert-Butylbenzene	97		88		70-130	10		30
o-Chlorotoluene	94		88		70-130	7		30
p-Chlorotoluene	96		88		70-130	9		30
1,2-Dibromo-3-chloropropane	96		91		68-130	5		30
Hexachlorobutadiene	98		89		67-130	10		30
Isopropylbenzene	97		87		70-130	11		30
p-Isopropyltoluene	99		90		70-130	10		30
Naphthalene	88		83		70-130	6		30
Acrylonitrile	104		99		70-130	5		30
Tert-Butyl Alcohol	90		86		70-130	5		30
n-Propylbenzene	98		89		70-130	10		30
1,2,3-Trichlorobenzene	96		90		70-130	6		30
1,2,4-Trichlorobenzene	101		93		70-130	8		30
1,3,5-Trimethylbenzene	95		87		70-130	9		30
1,2,4-Trimethylbenzene	94		86		70-130	9		30
Methyl Acetate	100		94		51-146	6		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 24 Batch: WG1936494-3 WG1936494-4								
Acrolein	134	Q	128		70-130	5		30
Cyclohexane	108		98		59-142	10		30
1,4-Dioxane	97		95		65-136	2		30
Freon-113	114		102		50-139	11		30
p-Diethylbenzene	102		92		70-130	10		30
p-Ethyltoluene	98		89		70-130	10		30
1,2,4,5-Tetramethylbenzene	97		88		70-130	10		30
Ethyl ether	99		95		67-130	4		30
trans-1,4-Dichloro-2-butene	93		89		70-130	4		30
Methyl cyclohexane	106		96		70-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		99		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	95		96		70-130
Dibromofluoromethane	101		103		70-130





## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 21,25,28,30 Batch: WG1936589-3 WG1936589-4								
Methylene chloride	103		95		70-130	8		30
1,1-Dichloroethane	100		92		70-130	8		30
Chloroform	98		90		70-130	9		30
Carbon tetrachloride	102		94		70-130	8		30
1,2-Dichloropropane	97		90		70-130	7		30
Dibromochloromethane	95		91		70-130	4		30
1,1,2-Trichloroethane	94		88		70-130	7		30
Tetrachloroethene	106		96		70-130	10		30
Chlorobenzene	96		89		70-130	8		30
Trichlorofluoromethane	114		103		70-139	10		30
1,2-Dichloroethane	95		90		70-130	5		30
1,1,1-Trichloroethane	104		96		70-130	8		30
Bromodichloromethane	95		90		70-130	5		30
trans-1,3-Dichloropropene	94		87		70-130	8		30
cis-1,3-Dichloropropene	98		92		70-130	6		30
1,1-Dichloropropene	108		98		70-130	10		30
Bromoform	92		89		70-130	3		30
1,1,2,2-Tetrachloroethane	96		89		70-130	8		30
Benzene	100		92		70-130	8		30
Toluene	100		92		70-130	8		30
Ethylbenzene	95		86		70-130	10		30
Chloromethane	108		97		52-130	11		30
Bromomethane	121		110		57-147	10		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 21,25,28,30 Batch: WG1936589-3 WG1936589-4								
Vinyl chloride	110		98		67-130	12		30
Chloroethane	106		94		50-151	12		30
1,1-Dichloroethene	106		97		65-135	9		30
trans-1,2-Dichloroethene	102		94		70-130	8		30
Trichloroethene	100		93		70-130	7		30
1,2-Dichlorobenzene	95		89		70-130	7		30
1,3-Dichlorobenzene	98		90		70-130	9		30
1,4-Dichlorobenzene	96		89		70-130	8		30
Methyl tert butyl ether	94		90		66-130	4		30
p/m-Xylene	97		89		70-130	9		30
o-Xylene	96		89		70-130	8		30
cis-1,2-Dichloroethene	98		91		70-130	7		30
Dibromomethane	95		91		70-130	4		30
Styrene	100		94		70-130	6		30
Dichlorodifluoromethane	119		107		30-146	11		30
Acetone	99		92		54-140	7		30
Carbon disulfide	103		94		59-130	9		30
2-Butanone	93		89		70-130	4		30
Vinyl acetate	124		112		70-130	10		30
4-Methyl-2-pentanone	95		89		70-130	7		30
1,2,3-Trichloropropane	93		87		68-130	7		30
2-Hexanone	95		90		70-130	5		30
Bromochloromethane	98		93		70-130	5		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 21,25,28,30 Batch: WG1936589-3 WG1936589-4								
2,2-Dichloropropane	99		90		70-130	10		30
1,2-Dibromoethane	97		92		70-130	5		30
1,3-Dichloropropane	94		88		69-130	7		30
1,1,1,2-Tetrachloroethane	95		89		70-130	7		30
Bromobenzene	93		87		70-130	7		30
n-Butylbenzene	102		92		70-130	10		30
sec-Butylbenzene	99		89		70-130	11		30
tert-Butylbenzene	97		88		70-130	10		30
o-Chlorotoluene	94		88		70-130	7		30
p-Chlorotoluene	96		88		70-130	9		30
1,2-Dibromo-3-chloropropane	96		91		68-130	5		30
Hexachlorobutadiene	98		89		67-130	10		30
Isopropylbenzene	97		87		70-130	11		30
p-Isopropyltoluene	99		90		70-130	10		30
Naphthalene	88		83		70-130	6		30
Acrylonitrile	104		99		70-130	5		30
Tert-Butyl Alcohol	90		86		70-130	5		30
n-Propylbenzene	98		89		70-130	10		30
1,2,3-Trichlorobenzene	96		90		70-130	6		30
1,2,4-Trichlorobenzene	101		93		70-130	8		30
1,3,5-Trimethylbenzene	95		87		70-130	9		30
1,2,4-Trimethylbenzene	94		86		70-130	9		30
Methyl Acetate	100		94		51-146	6		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 21,25,28,30 Batch: WG1936589-3 WG1936589-4								
Acrolein	134	Q	128		70-130	5		30
Cyclohexane	108		98		59-142	10		30
1,4-Dioxane	97		95		65-136	2		30
Freon-113	114		102		50-139	11		30
p-Diethylbenzene	102		92		70-130	10		30
p-Ethyltoluene	98		89		70-130	10		30
1,2,4,5-Tetramethylbenzene	97		88		70-130	10		30
Ethyl ether	99		95		67-130	4		30
trans-1,4-Dichloro-2-butene	93		89		70-130	4		30
Methyl cyclohexane	106		96		70-130	10		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		99		70-130
Toluene-d8	97		97		70-130
4-Bromofluorobenzene	95		95		70-130
Dibromofluoromethane	101		103		70-130



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 24 Batch: WG1937146-3 WG1937146-4								
Methylene chloride	87		84		70-130	4		30
1,1-Dichloroethane	86		77		70-130	11		30
Chloroform	97		88		70-130	10		30
Carbon tetrachloride	92		82		70-130	11		30
1,2-Dichloropropane	99		94		70-130	5		30
Dibromochloromethane	84		83		70-130	1		30
1,1,2-Trichloroethane	91		90		70-130	1		30
Tetrachloroethene	96		84		70-130	13		30
Chlorobenzene	93		85		70-130	9		30
Trichlorofluoromethane	103		87		70-139	17		30
1,2-Dichloroethane	102		98		70-130	4		30
1,1,1-Trichloroethane	95		85		70-130	11		30
Bromodichloromethane	89		84		70-130	6		30
trans-1,3-Dichloropropene	91		87		70-130	4		30
cis-1,3-Dichloropropene	92		87		70-130	6		30
1,1-Dichloropropene	92		81		70-130	13		30
Bromoform	77		77		70-130	0		30
1,1,1,2-Tetrachloroethane	82		80		70-130	2		30
Benzene	95		87		70-130	9		30
Toluene	92		82		70-130	11		30
Ethylbenzene	92		83		70-130	10		30
Chloromethane	141	Q	121		52-130	15		30
Bromomethane	109		94		57-147	15		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 24 Batch: WG1937146-3 WG1937146-4								
Vinyl chloride	102		85		67-130	18		30
Chloroethane	95		80		50-151	17		30
1,1-Dichloroethene	83		72		65-135	14		30
trans-1,2-Dichloroethene	83		72		70-130	14		30
Trichloroethene	95		86		70-130	10		30
1,2-Dichlorobenzene	92		86		70-130	7		30
1,3-Dichlorobenzene	93		86		70-130	8		30
1,4-Dichlorobenzene	93		85		70-130	9		30
Methyl tert butyl ether	80		80		66-130	0		30
p/m-Xylene	95		85		70-130	11		30
o-Xylene	92		84		70-130	9		30
cis-1,2-Dichloroethene	87		77		70-130	12		30
Dibromomethane	90		90		70-130	0		30
Styrene	92		85		70-130	8		30
Dichlorodifluoromethane	120		102		30-146	16		30
Acetone	94		99		54-140	5		30
Carbon disulfide	90		77		59-130	16		30
2-Butanone	92		101		70-130	9		30
Vinyl acetate	92		81		70-130	13		30
4-Methyl-2-pentanone	79		85		70-130	7		30
1,2,3-Trichloropropane	88		88		68-130	0		30
2-Hexanone	78		86		70-130	10		30
Bromochloromethane	91		86		70-130	6		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 24 Batch: WG1937146-3 WG1937146-4								
2,2-Dichloropropane	96		85		70-130	12		30
1,2-Dibromoethane	89		87		70-130	2		30
1,3-Dichloropropane	93		90		69-130	3		30
1,1,1,2-Tetrachloroethane	89		82		70-130	8		30
Bromobenzene	89		84		70-130	6		30
n-Butylbenzene	96		84		70-130	13		30
sec-Butylbenzene	93		82		70-130	13		30
tert-Butylbenzene	89		79		70-130	12		30
o-Chlorotoluene	92		99		70-130	7		30
p-Chlorotoluene	95		85		70-130	11		30
1,2-Dibromo-3-chloropropane	73		74		68-130	1		30
Hexachlorobutadiene	94		82		67-130	14		30
Isopropylbenzene	92		82		70-130	11		30
p-Isopropyltoluene	92		81		70-130	13		30
Naphthalene	78		77		70-130	1		30
Acrylonitrile	93		96		70-130	3		30
Tert-Butyl Alcohol	74		84		70-130	13		30
n-Propylbenzene	95		84		70-130	12		30
1,2,3-Trichlorobenzene	90		84		70-130	7		30
1,2,4-Trichlorobenzene	90		83		70-130	8		30
1,3,5-Trimethylbenzene	94		83		70-130	12		30
1,2,4-Trimethylbenzene	93		84		70-130	10		30
Methyl Acetate	94		100		51-146	6		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 24 Batch: WG1937146-3 WG1937146-4								
Acrolein	98		99		70-130	1		30
Cyclohexane	100		86		59-142	15		30
1,4-Dioxane	85		93		65-136	9		30
Freon-113	92		79		50-139	15		30
p-Diethylbenzene	92		81		70-130	13		30
p-Ethyltoluene	94		83		70-130	12		30
1,2,4,5-Tetramethylbenzene	88		80		70-130	10		30
Ethyl ether	81		75		67-130	8		30
trans-1,4-Dichloro-2-butene	90		92		70-130	2		30
Methyl cyclohexane	86		75		70-130	14		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		113		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	103		105		70-130





# SEMIVOLATILES

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-22 D  
 Client ID: WC01\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 11:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/21/24 06:45  
 Analyst: LJG  
 Percent Solids: 89%

Extraction Method: EPA 3546  
 Extraction Date: 06/18/24 09:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	650	J	ug/kg	1500	190	10
Benzidine	ND		ug/kg	6100	2000	10
1,2,4-Trichlorobenzene	ND		ug/kg	1800	210	10
Hexachlorobenzene	ND		ug/kg	1100	210	10
Bis(2-chloroethyl)ether	ND		ug/kg	1700	250	10
2-Chloronaphthalene	ND		ug/kg	1800	180	10
1,2-Dichlorobenzene	ND		ug/kg	1800	330	10
1,3-Dichlorobenzene	ND		ug/kg	1800	320	10
1,4-Dichlorobenzene	ND		ug/kg	1800	320	10
3,3'-Dichlorobenzidine	ND		ug/kg	1800	490	10
2,4-Dinitrotoluene	ND		ug/kg	1800	370	10
2,6-Dinitrotoluene	ND		ug/kg	1800	320	10
Azobenzene	ND		ug/kg	1800	180	10
Fluoranthene	6800		ug/kg	1100	210	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1800	200	10
4-Bromophenyl phenyl ether	ND		ug/kg	1800	280	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2200	320	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2000	190	10
Hexachlorobutadiene	ND		ug/kg	1800	270	10
Hexachlorocyclopentadiene	ND		ug/kg	5300	1700	10
Hexachloroethane	ND		ug/kg	1500	300	10
Isophorone	ND		ug/kg	1700	240	10
Naphthalene	1300	J	ug/kg	1800	230	10
Nitrobenzene	ND		ug/kg	1700	270	10
NDPA/DPA	ND		ug/kg	1500	210	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1800	290	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1800	640	10
Butyl benzyl phthalate	ND		ug/kg	1800	470	10

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433440-22 D  
 Client ID: WC01\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 11:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	1800	350	10
Di-n-octylphthalate	ND		ug/kg	1800	630	10
Diethyl phthalate	ND		ug/kg	1800	170	10
Dimethyl phthalate	ND		ug/kg	1800	390	10
Benzo(a)anthracene	1000	J	ug/kg	1100	210	10
Benzo(a)pyrene	1500		ug/kg	1500	450	10
Benzo(b)fluoranthene	1700		ug/kg	1100	310	10
Benzo(k)fluoranthene	700	J	ug/kg	1100	300	10
Chrysene	840	J	ug/kg	1100	190	10
Acenaphthylene	590	J	ug/kg	1500	290	10
Anthracene	1800		ug/kg	1100	360	10
Benzo(ghi)perylene	1100	J	ug/kg	1500	220	10
Fluorene	980	J	ug/kg	1800	180	10
Phenanthrene	7400		ug/kg	1100	220	10
Dibenzo(a,h)anthracene	320	J	ug/kg	1100	210	10
Indeno(1,2,3-cd)pyrene	1000	J	ug/kg	1500	260	10
Pyrene	5600		ug/kg	1100	180	10
Biphenyl	ND		ug/kg	4200	240	10
4-Chloroaniline	ND		ug/kg	1800	340	10
2-Nitroaniline	ND		ug/kg	1800	360	10
3-Nitroaniline	ND		ug/kg	1800	350	10
4-Nitroaniline	ND		ug/kg	1800	770	10
Dibenzofuran	750	J	ug/kg	1800	180	10
2-Methylnaphthalene	710	J	ug/kg	2200	220	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1800	190	10
Acetophenone	ND		ug/kg	1800	230	10
n-Nitrosodimethylamine	ND		ug/kg	3700	360	10
2,4,6-Trichlorophenol	ND		ug/kg	1100	350	10
p-Chloro-m-cresol	ND		ug/kg	1800	280	10
2-Chlorophenol	ND		ug/kg	1800	220	10
2,4-Dichlorophenol	ND		ug/kg	1700	300	10
2,4-Dimethylphenol	ND		ug/kg	1800	610	10
2-Nitrophenol	ND		ug/kg	4000	700	10
4-Nitrophenol	ND		ug/kg	2600	760	10
2,4-Dinitrophenol	ND		ug/kg	8900	860	10
4,6-Dinitro-o-cresol	ND		ug/kg	4800	890	10
Pentachlorophenol	ND		ug/kg	1500	410	10

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-22 D  
 Client ID: WC01\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 11:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	430	J	ug/kg	1800	280	10
2-Methylphenol	420	J	ug/kg	1800	290	10
3-Methylphenol/4-Methylphenol	2600	J	ug/kg	2700	290	10
2,4,5-Trichlorophenol	ND		ug/kg	1800	360	10
Benzoic Acid	ND		ug/kg	6000	1900	10
Benzyl Alcohol	ND		ug/kg	1800	570	10
Carbazole	540	J	ug/kg	1800	180	10
Atrazine	ND		ug/kg	1500	650	10
Benzaldehyde	ND		ug/kg	2400	500	10
Caprolactam	ND		ug/kg	1800	560	10
2,3,4,6-Tetrachlorophenol	ND		ug/kg	1800	380	10
1,4-Dioxane	ND		ug/kg	280	85.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	26		25-120
Phenol-d6	26		10-120
Nitrobenzene-d5	26		23-120
2-Fluorobiphenyl	34		30-120
2,4,6-Tribromophenol	28		10-136
4-Terphenyl-d14	39		18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-23  
 Client ID: DUP01\_COMP\_061324  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 00:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/20/24 04:31  
 Analyst: KB  
 Percent Solids: 85%

Extraction Method: EPA 3546  
 Extraction Date: 06/18/24 12:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	240		ug/kg	150	20.	1
Benzidine	ND		ug/kg	640	210	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	35.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	51.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	33.	1
Azobenzene	ND		ug/kg	190	18.	1
Fluoranthene	1900		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	550	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	240		ug/kg	190	24.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	67.	1
Butyl benzyl phthalate	ND		ug/kg	190	49.	1

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433440-23  
 Client ID: DUP01\_COMP\_061324  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 00:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	66.	1
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	420		ug/kg	120	22.	1
Benzo(a)pyrene	490		ug/kg	150	47.	1
Chrysene	230		ug/kg	120	20.	1
Acenaphthylene	220		ug/kg	150	30.	1
Anthracene	540		ug/kg	120	38.	1
Benzo(ghi)perylene	500		ug/kg	150	23.	1
Fluorene	280		ug/kg	190	19.	1
Phenanthrene	1700		ug/kg	120	23.	1
Dibenzo(a,h)anthracene	38	J	ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	480		ug/kg	150	27.	1
Pyrene	1600		ug/kg	120	19.	1
Biphenyl	40	J	ug/kg	440	25.	1
4-Chloroaniline	ND		ug/kg	190	35.	1
2-Nitroaniline	ND		ug/kg	190	37.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	80.	1
Dibenzofuran	200		ug/kg	190	18.	1
2-Methylnaphthalene	140	J	ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	45	J	ug/kg	190	24.	1
n-Nitrosodimethylamine	ND		ug/kg	380	37.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	29.	1
2-Chlorophenol	ND		ug/kg	190	23.	1
2,4-Dichlorophenol	ND		ug/kg	170	31.	1
2,4-Dimethylphenol	200		ug/kg	190	64.	1
2-Nitrophenol	ND		ug/kg	420	72.	1
4-Nitrophenol	ND		ug/kg	270	79.	1
2,4-Dinitrophenol	ND		ug/kg	930	90.	1
4,6-Dinitro-o-cresol	ND		ug/kg	500	93.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	92	J	ug/kg	190	29.	1
2-Methylphenol	200		ug/kg	190	30.	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

**Lab ID:** L2433440-23  
**Client ID:** DUP01\_COMP\_061324  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/13/24 00:00  
**Date Received:** 06/13/24  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
3-Methylphenol/4-Methylphenol	2100		ug/kg	280	30.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	37.	1
Benzoic Acid	ND		ug/kg	620	200	1
Benzyl Alcohol	ND		ug/kg	190	59.	1
Carbazole	160	J	ug/kg	190	19.	1
Atrazine	ND		ug/kg	150	68.	1
Benzaldehyde	110	J	ug/kg	250	52.	1
Caprolactam	ND		ug/kg	190	59.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	39.	1
1,4-Dioxane	ND		ug/kg	29	8.9	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	38		25-120
Phenol-d6	41		10-120
Nitrobenzene-d5	43		23-120
2-Fluorobiphenyl	46		30-120
2,4,6-Tribromophenol	54		10-136
4-Terphenyl-d14	42		18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-23 D  
 Client ID: DUP01\_COMP\_061324  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 00:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/21/24 09:27  
 Analyst: SZ  
 Percent Solids: 85%

Extraction Method: EPA 3546  
 Extraction Date: 06/18/24 12:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Benzo(b)fluoranthene	1300		ug/kg	580	160	5
Benzo(k)fluoranthene	440	J	ug/kg	580	150	5



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-26 D  
 Client ID: WC05\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 12:05  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/20/24 18:18  
 Analyst: IM  
 Percent Solids: 87%

Extraction Method: EPA 3546  
 Extraction Date: 06/18/24 09:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	610	J	ug/kg	1500	190	10
Benzidine	ND		ug/kg	6200	2000	10
1,2,4-Trichlorobenzene	ND		ug/kg	1900	210	10
Hexachlorobenzene	ND		ug/kg	1100	210	10
Bis(2-chloroethyl)ether	ND		ug/kg	1700	250	10
2-Chloronaphthalene	ND		ug/kg	1900	180	10
1,2-Dichlorobenzene	ND		ug/kg	1900	340	10
1,3-Dichlorobenzene	ND		ug/kg	1900	320	10
1,4-Dichlorobenzene	ND		ug/kg	1900	330	10
3,3'-Dichlorobenzidine	ND		ug/kg	1900	500	10
2,4-Dinitrotoluene	ND		ug/kg	1900	370	10
2,6-Dinitrotoluene	ND		ug/kg	1900	320	10
Azobenzene	ND		ug/kg	1900	180	10
Fluoranthene	10000		ug/kg	1100	220	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1900	200	10
4-Bromophenyl phenyl ether	ND		ug/kg	1900	280	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2200	320	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2000	190	10
Hexachlorobutadiene	ND		ug/kg	1900	270	10
Hexachlorocyclopentadiene	ND		ug/kg	5400	1700	10
Hexachloroethane	ND		ug/kg	1500	300	10
Isophorone	ND		ug/kg	1700	240	10
Naphthalene	610	J	ug/kg	1900	230	10
Nitrobenzene	ND		ug/kg	1700	280	10
NDPA/DPA	ND		ug/kg	1500	210	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1900	290	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1900	650	10
Butyl benzyl phthalate	4000		ug/kg	1900	470	10

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433440**Project Number:** 170562203**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433440-26 D  
 Client ID: WC05\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 12:05  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Di-n-butylphthalate	ND		ug/kg	1900	360	10
Di-n-octylphthalate	ND		ug/kg	1900	640	10
Diethyl phthalate	ND		ug/kg	1900	170	10
Dimethyl phthalate	ND		ug/kg	1900	390	10
Benzo(a)anthracene	4900		ug/kg	1100	210	10
Benzo(a)pyrene	4200		ug/kg	1500	460	10
Benzo(b)fluoranthene	5500		ug/kg	1100	320	10
Benzo(k)fluoranthene	1700		ug/kg	1100	300	10
Chrysene	4200		ug/kg	1100	190	10
Acenaphthylene	490	J	ug/kg	1500	290	10
Anthracene	2000		ug/kg	1100	360	10
Benzo(ghi)perylene	3200		ug/kg	1500	220	10
Fluorene	880	J	ug/kg	1900	180	10
Phenanthrene	7800		ug/kg	1100	230	10
Dibenzo(a,h)anthracene	840	J	ug/kg	1100	220	10
Indeno(1,2,3-cd)pyrene	2500		ug/kg	1500	260	10
Pyrene	8100		ug/kg	1100	190	10
Biphenyl	ND		ug/kg	4300	240	10
4-Chloroaniline	ND		ug/kg	1900	340	10
2-Nitroaniline	ND		ug/kg	1900	360	10
3-Nitroaniline	ND		ug/kg	1900	350	10
4-Nitroaniline	ND		ug/kg	1900	780	10
Dibenzofuran	480	J	ug/kg	1900	180	10
2-Methylnaphthalene	280	J	ug/kg	2200	230	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1900	200	10
Acetophenone	ND		ug/kg	1900	230	10
n-Nitrosodimethylamine	ND		ug/kg	3700	360	10
2,4,6-Trichlorophenol	ND		ug/kg	1100	360	10
p-Chloro-m-cresol	ND		ug/kg	1900	280	10
2-Chlorophenol	ND		ug/kg	1900	220	10
2,4-Dichlorophenol	ND		ug/kg	1700	300	10
2,4-Dimethylphenol	ND		ug/kg	1900	620	10
2-Nitrophenol	ND		ug/kg	4000	700	10
4-Nitrophenol	ND		ug/kg	2600	760	10
2,4-Dinitrophenol	ND		ug/kg	9000	870	10
4,6-Dinitro-o-cresol	ND		ug/kg	4900	900	10
Pentachlorophenol	ND		ug/kg	1500	410	10

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-26 D  
 Client ID: WC05\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 12:05  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	ND		ug/kg	1900	280	10
2-Methylphenol	ND		ug/kg	1900	290	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	2700	290	10
2,4,5-Trichlorophenol	ND		ug/kg	1900	360	10
Benzoic Acid	ND		ug/kg	6100	1900	10
Benzyl Alcohol	ND		ug/kg	1900	570	10
Carbazole	840	J	ug/kg	1900	180	10
Atrazine	ND		ug/kg	1500	660	10
Benzaldehyde	ND		ug/kg	2500	500	10
Caprolactam	ND		ug/kg	1900	570	10
2,3,4,6-Tetrachlorophenol	ND		ug/kg	1900	380	10
1,4-Dioxane	ND		ug/kg	280	86.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	39		25-120
Phenol-d6	36		10-120
Nitrobenzene-d5	41		23-120
2-Fluorobiphenyl	40		30-120
2,4,6-Tribromophenol	34		10-136
4-Terphenyl-d14	40		18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-27  
 Client ID: WC10\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 13:20  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/20/24 11:28  
 Analyst: IM  
 Percent Solids: 87%

Extraction Method: EPA 3546  
 Extraction Date: 06/18/24 09:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	120	J	ug/kg	150	19.	1
Benzidine	ND		ug/kg	620	200	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Azobenzene	ND		ug/kg	190	18.	1
Fluoranthene	2800		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	220	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	140	J	ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	120	J	ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	47.	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433440**Project Number:** 170562203**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433440-27  
 Client ID: WC10\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 13:20  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	1600		ug/kg	110	21.	1
Benzo(a)pyrene	1500		ug/kg	150	46.	1
Benzo(b)fluoranthene	2000		ug/kg	110	32.	1
Benzo(k)fluoranthene	540		ug/kg	110	30.	1
Chrysene	1500		ug/kg	110	20.	1
Acenaphthylene	230		ug/kg	150	29.	1
Anthracene	450		ug/kg	110	37.	1
Benzo(ghi)perylene	1100		ug/kg	150	22.	1
Fluorene	170	J	ug/kg	190	18.	1
Phenanthrene	1600		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	340		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	940		ug/kg	150	26.	1
Pyrene	2500		ug/kg	110	19.	1
Biphenyl	ND		ug/kg	430	24.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	35.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	110	J	ug/kg	190	18.	1
2-Methylnaphthalene	140	J	ug/kg	220	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
n-Nitrosodimethylamine	ND		ug/kg	380	36.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	900	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	90.	1
Pentachlorophenol	ND		ug/kg	150	41.	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-27  
 Client ID: WC10\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 13:20  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	200		ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	66.	1
Benzaldehyde	120	J	ug/kg	250	51.	1
Caprolactam	ND		ug/kg	190	57.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	38.	1
1,4-Dioxane	ND		ug/kg	28	8.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	1	Q	25-120
Phenol-d6	30		10-120
Nitrobenzene-d5	70		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	1	Q	10-136
4-Terphenyl-d14	68		18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-27 RE  
 Client ID: WC10\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 13:20  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/22/24 10:05  
 Analyst: CMM  
 Percent Solids: 87%

Extraction Method: EPA 3546  
 Extraction Date: 06/20/24 20:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	140	J	ug/kg	150	20.	1
Benzidine	ND		ug/kg	620	200	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	32.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Azobenzene	ND		ug/kg	190	18.	1
Fluoranthene	3400		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	30.	1
Isophorone	ND		ug/kg	170	24.	1
Naphthalene	190		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	21.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	130	J	ug/kg	190	65.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433440-27 RE  
 Client ID: WC10\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 13:20  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1
Diethyl phthalate	ND		ug/kg	190	17.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	1600		ug/kg	110	21.	1
Benzo(a)pyrene	1300		ug/kg	150	46.	1
Benzo(b)fluoranthene	1600		ug/kg	110	32.	1
Benzo(k)fluoranthene	580		ug/kg	110	30.	1
Chrysene	1500		ug/kg	110	20.	1
Acenaphthylene	350		ug/kg	150	29.	1
Anthracene	470		ug/kg	110	37.	1
Benzo(ghi)perylene	970		ug/kg	150	22.	1
Fluorene	220		ug/kg	190	18.	1
Phenanthrene	1700		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	250		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	880		ug/kg	150	26.	1
Pyrene	2800		ug/kg	110	19.	1
Biphenyl	24	J	ug/kg	430	24.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	120	J	ug/kg	190	18.	1
2-Methylnaphthalene	140	J	ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
n-Nitrosodimethylamine	ND		ug/kg	380	36.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-27 RE  
 Client ID: WC10\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 13:20  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	30.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	200		ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	66.	1
Benzaldehyde	100	J	ug/kg	250	51.	1
Caprolactam	ND		ug/kg	190	57.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	38.	1
1,4-Dioxane	ND		ug/kg	28	8.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	5	Q	25-120
Phenol-d6	26		10-120
Nitrobenzene-d5	90		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	3	Q	10-136
4-Terphenyl-d14	78		18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-29  
 Client ID: WC02\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 15:25  
 Date Received: 06/13/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/19/24 19:43  
 Analyst: LJG  
 Percent Solids: 79%

Extraction Method: EPA 3546  
 Extraction Date: 06/18/24 09:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	790		ug/kg	160	21.	1
Benzidine	ND		ug/kg	680	220	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	120	23.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	28.	1
2-Chloronaphthalene	ND		ug/kg	210	20.	1
1,2-Dichlorobenzene	ND		ug/kg	210	37.	1
1,3-Dichlorobenzene	ND		ug/kg	210	35.	1
1,4-Dichlorobenzene	ND		ug/kg	210	36.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	55.	1
2,4-Dinitrotoluene	ND		ug/kg	210	41.	1
2,6-Dinitrotoluene	ND		ug/kg	210	35.	1
Azobenzene	ND		ug/kg	210	20.	1
Fluoranthene	6300		ug/kg	120	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	31.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	35.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	220	21.	1
Hexachlorobutadiene	ND		ug/kg	210	30.	1
Hexachlorocyclopentadiene	ND		ug/kg	590	190	1
Hexachloroethane	ND		ug/kg	160	33.	1
Isophorone	ND		ug/kg	180	27.	1
Naphthalene	1100		ug/kg	210	25.	1
Nitrobenzene	ND		ug/kg	180	30.	1
NDPA/DPA	ND		ug/kg	160	23.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	71.	1
Butyl benzyl phthalate	ND		ug/kg	210	52.	1

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433440-29  
 Client ID: WC02\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 15:25  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	210	39.	1
Di-n-octylphthalate	ND		ug/kg	210	70.	1
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	43.	1
Benzo(a)anthracene	2600		ug/kg	120	23.	1
Benzo(a)pyrene	2000		ug/kg	160	50.	1
Benzo(b)fluoranthene	2200		ug/kg	120	35.	1
Benzo(k)fluoranthene	850		ug/kg	120	33.	1
Chrysene	2200		ug/kg	120	21.	1
Acenaphthylene	820		ug/kg	160	32.	1
Anthracene	1800		ug/kg	120	40.	1
Benzo(ghi)perylene	1200		ug/kg	160	24.	1
Fluorene	960		ug/kg	210	20.	1
Phenanthrene	5700		ug/kg	120	25.	1
Dibenzo(a,h)anthracene	330		ug/kg	120	24.	1
Indeno(1,2,3-cd)pyrene	1100		ug/kg	160	29.	1
Pyrene	5200		ug/kg	120	20.	1
Biphenyl	120	J	ug/kg	470	27.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	39.	1
4-Nitroaniline	ND		ug/kg	210	85.	1
Dibenzofuran	700		ug/kg	210	20.	1
2-Methylnaphthalene	490		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
n-Nitrosodimethylamine	ND		ug/kg	410	40.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	39.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	24.	1
2,4-Dichlorophenol	ND		ug/kg	180	33.	1
2,4-Dimethylphenol	170	J	ug/kg	210	68.	1
2-Nitrophenol	ND		ug/kg	440	78.	1
4-Nitrophenol	ND		ug/kg	290	84.	1
2,4-Dinitrophenol	ND		ug/kg	990	96.	1
4,6-Dinitro-o-cresol	ND		ug/kg	540	99.	1
Pentachlorophenol	ND		ug/kg	160	45.	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-29  
 Client ID: WC02\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 15:25  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	140	J	ug/kg	210	31.	1
2-Methylphenol	180	J	ug/kg	210	32.	1
3-Methylphenol/4-Methylphenol	1600		ug/kg	300	32.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	39.	1
Benzoic Acid	ND		ug/kg	670	210	1
Benzyl Alcohol	ND		ug/kg	210	63.	1
Carbazole	630		ug/kg	210	20.	1
Atrazine	ND		ug/kg	160	72.	1
Benzaldehyde	ND		ug/kg	270	56.	1
Caprolactam	ND		ug/kg	210	63.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	210	42.	1
1,4-Dioxane	ND		ug/kg	31	9.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	46		25-120
Phenol-d6	51		10-120
Nitrobenzene-d5	46		23-120
2-Fluorobiphenyl	56		30-120
2,4,6-Tribromophenol	42		10-136
4-Terphenyl-d14	52		18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/18/24 09:23  
Analyst: IM

Extraction Method: EPA 3546  
Extraction Date: 06/18/24 05:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 22-23,26-27,29 Batch: WG1935618-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	550	180
1,2,4-Trichlorobenzene	ND		ug/kg	170	19.
Hexachlorobenzene	ND		ug/kg	100	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	170	16.
1,2-Dichlorobenzene	ND		ug/kg	170	30.
1,3-Dichlorobenzene	ND		ug/kg	170	28.
1,4-Dichlorobenzene	ND		ug/kg	170	29.
3,3'-Dichlorobenzidine	ND		ug/kg	170	44.
2,4-Dinitrotoluene	ND		ug/kg	170	33.
2,6-Dinitrotoluene	ND		ug/kg	170	28.
Azobenzene	ND		ug/kg	170	16.
Fluoranthene	ND		ug/kg	100	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	170	18.
4-Bromophenyl phenyl ether	ND		ug/kg	170	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	170	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	170	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	170	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	170	57.
Butyl benzyl phthalate	ND		ug/kg	170	42.
Di-n-butylphthalate	ND		ug/kg	170	31.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/18/24 09:23  
Analyst: IM

Extraction Method: EPA 3546  
Extraction Date: 06/18/24 05:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 22-23,26-27,29 Batch: WG1935618-1					
Di-n-octylphthalate	ND		ug/kg	170	56.
Diethyl phthalate	ND		ug/kg	170	15.
Dimethyl phthalate	ND		ug/kg	170	35.
Benzo(a)anthracene	ND		ug/kg	100	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	100	28.
Benzo(k)fluoranthene	ND		ug/kg	100	26.
Chrysene	ND		ug/kg	100	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	100	32.
Benzo(ghi)perylene	ND		ug/kg	130	20.
Fluorene	ND		ug/kg	170	16.
Phenanthrene	ND		ug/kg	100	20.
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	100	16.
Biphenyl	ND		ug/kg	380	22.
4-Chloroaniline	ND		ug/kg	170	30.
2-Nitroaniline	ND		ug/kg	170	32.
3-Nitroaniline	ND		ug/kg	170	31.
4-Nitroaniline	ND		ug/kg	170	69.
Dibenzofuran	ND		ug/kg	170	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	170	17.
Acetophenone	ND		ug/kg	170	20.
n-Nitrosodimethylamine	ND		ug/kg	330	32.
2,4,6-Trichlorophenol	ND		ug/kg	100	31.
p-Chloro-m-cresol	ND		ug/kg	170	25.
2-Chlorophenol	ND		ug/kg	170	20.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/18/24 09:23  
Analyst: IM

Extraction Method: EPA 3546  
Extraction Date: 06/18/24 05:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 22-23,26-27,29 Batch: WG1935618-1					
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	170	55.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	170	25.
2-Methylphenol	ND		ug/kg	170	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	170	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	170	51.
Carbazole	ND		ug/kg	170	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	45.
Caprolactam	ND		ug/kg	170	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	170	34.
1,4-Dioxane	ND		ug/kg	25	7.6

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/18/24 09:23  
Analyst: IM

Extraction Method: EPA 3546  
Extraction Date: 06/18/24 05:13

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 22-23,26-27,29 Batch: WG1935618-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	94		25-120
Phenol-d6	86		10-120
Nitrobenzene-d5	77		23-120
2-Fluorobiphenyl	100		30-120
2,4,6-Tribromophenol	110		10-136
4-Terphenyl-d14	108		18-120



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/21/24 02:32  
Analyst: CMM

Extraction Method: EPA 3546  
Extraction Date: 06/20/24 08:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 27 Batch: WG1936913-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	540	180
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/21/24 02:32  
Analyst: CMM

Extraction Method: EPA 3546  
Extraction Date: 06/20/24 08:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 27 Batch: WG1936913-1					
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
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.
Biphenyl	ND		ug/kg	370	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
n-Nitrosodimethylamine	ND		ug/kg	330	31.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E  
Analytical Date: 06/21/24 02:32  
Analyst: CMM

Extraction Method: EPA 3546  
Extraction Date: 06/20/24 08:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 27 Batch: WG1936913-1					
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	93		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	100		18-120



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 22-23,26-27,29 Batch: WG1935618-2 WG1935618-3								
Acenaphthene	81		77		31-137	5		50
Benzidine	62		71	Q	10-66	14		50
1,2,4-Trichlorobenzene	89		79		38-107	12		50
Hexachlorobenzene	104		96		40-140	8		50
Bis(2-chloroethyl)ether	76		67		40-140	13		50
2-Chloronaphthalene	91		85		40-140	7		50
1,2-Dichlorobenzene	80		69		40-140	15		50
1,3-Dichlorobenzene	80		69		40-140	15		50
1,4-Dichlorobenzene	80		68		28-104	16		50
3,3'-Dichlorobenzidine	78		81		40-140	4		50
2,4-Dinitrotoluene	95		89		40-132	7		50
2,6-Dinitrotoluene	100		96		40-140	4		50
Azobenzene	79		76		40-140	4		50
Fluoranthene	98		93		40-140	5		50
4-Chlorophenyl phenyl ether	102		93		40-140	9		50
4-Bromophenyl phenyl ether	106		100		40-140	6		50
Bis(2-chloroisopropyl)ether	77		68		40-140	12		50
Bis(2-chloroethoxy)methane	82		76		40-117	8		50
Hexachlorobutadiene	112		99		40-140	12		50
Hexachlorocyclopentadiene	129		114		40-140	12		50
Hexachloroethane	84		71		40-140	17		50
Isophorone	77		71		40-140	8		50
Naphthalene	81		72		40-140	12		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2433440

**Project Number:** 170562203

**Report Date:** 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 22-23,26-27,29 Batch: WG1935618-2 WG1935618-3								
Nitrobenzene	78		69		40-140	12		50
NDPA/DPA	89		84		36-157	6		50
n-Nitrosodi-n-propylamine	82		75		32-121	9		50
Bis(2-ethylhexyl)phthalate	87		81		40-140	7		50
Butyl benzyl phthalate	102		94		40-140	8		50
Di-n-butylphthalate	92		88		40-140	4		50
Di-n-octylphthalate	94		86		40-140	9		50
Diethyl phthalate	90		85		40-140	6		50
Dimethyl phthalate	98		92		40-140	6		50
Benzo(a)anthracene	90		86		40-140	5		50
Benzo(a)pyrene	102		94		40-140	8		50
Benzo(b)fluoranthene	93		92		40-140	1		50
Benzo(k)fluoranthene	100		89		40-140	12		50
Chrysene	89		86		40-140	3		50
Acenaphthylene	91		85		40-140	7		50
Anthracene	90		86		40-140	5		50
Benzo(ghi)perylene	98		90		40-140	9		50
Fluorene	86		81		40-140	6		50
Phenanthrene	85		82		40-140	4		50
Dibenzo(a,h)anthracene	98		91		40-140	7		50
Indeno(1,2,3-cd)pyrene	98		91		40-140	7		50
Pyrene	97		91		35-142	6		50
Biphenyl	84		78		37-127	7		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 22-23,26-27,29 Batch: WG1935618-2 WG1935618-3								
4-Chloroaniline	53		70		40-140	28		50
2-Nitroaniline	95		88		47-134	8		50
3-Nitroaniline	58		70		26-129	19		50
4-Nitroaniline	84		81		41-125	4		50
Dibenzofuran	88		82		40-140	7		50
2-Methylnaphthalene	88		80		40-140	10		50
1,2,4,5-Tetrachlorobenzene	102		93		40-117	9		50
Acetophenone	78		69		14-144	12		50
n-Nitrosodimethylamine	77		68		22-100	12		50
2,4,6-Trichlorophenol	109		102		30-130	7		50
p-Chloro-m-cresol	92		88		26-103	4		50
2-Chlorophenol	84		75		25-102	11		50
2,4-Dichlorophenol	90		83		30-130	8		50
2,4-Dimethylphenol	81		76		30-130	6		50
2-Nitrophenol	88		80		30-130	10		50
4-Nitrophenol	90		83		11-114	8		50
2,4-Dinitrophenol	96		89		4-130	8		50
4,6-Dinitro-o-cresol	111		102		10-130	8		50
Pentachlorophenol	106		99		17-109	7		50
Phenol	83		75		26-90	10		50
2-Methylphenol	83		76		30-130	9		50
3-Methylphenol/4-Methylphenol	82		75		30-130	9		50
2,4,5-Trichlorophenol	112		102		30-130	9		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2433440

**Report Date:** 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 22-23,26-27,29 Batch: WG1935618-2 WG1935618-3								
Benzoic Acid	80		65		10-110	21		50
Benzyl Alcohol	88		79		40-140	11		50
Carbazole	88		83		54-128	6		50
Atrazine	89		81		40-140	9		50
Benzaldehyde	68		59		40-140	14		50
Caprolactam	91		86		15-130	6		50
2,3,4,6-Tetrachlorophenol	111		100		40-140	10		50
1,4-Dioxane	58		48		40-140	19		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	84		71		25-120
Phenol-d6	78		69		10-120
Nitrobenzene-d5	71		61		23-120
2-Fluorobiphenyl	88		78		30-120
2,4,6-Tribromophenol	104		91		10-136
4-Terphenyl-d14	97		88		18-120

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 27 Batch: WG1936913-2 WG1936913-3								
Acenaphthene	61		77		31-137	23		50
Benzidine	46		57		10-66	21		50
1,2,4-Trichlorobenzene	64		86		38-107	29		50
Hexachlorobenzene	63		83		40-140	27		50
Bis(2-chloroethyl)ether	52		70		40-140	30		50
2-Chloronaphthalene	66		87		40-140	27		50
1,2-Dichlorobenzene	57		76		40-140	29		50
1,3-Dichlorobenzene	55		74		40-140	29		50
1,4-Dichlorobenzene	56		76		28-104	30		50
3,3'-Dichlorobenzidine	55		71		40-140	25		50
2,4-Dinitrotoluene	71		92		40-132	26		50
2,6-Dinitrotoluene	72		96		40-140	29		50
Azobenzene	58		74		40-140	24		50
Fluoranthene	68		90		40-140	28		50
4-Chlorophenyl phenyl ether	70		91		40-140	26		50
4-Bromophenyl phenyl ether	68		88		40-140	26		50
Bis(2-chloroisopropyl)ether	53		71		40-140	29		50
Bis(2-chloroethoxy)methane	56		71		40-117	24		50
Hexachlorobutadiene	75		99		40-140	28		50
Hexachlorocyclopentadiene	54		75		40-140	33		50
Hexachloroethane	55		71		40-140	25		50
Isophorone	57		75		40-140	27		50
Naphthalene	59		79		40-140	29		50



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2433440

**Project Number:** 170562203

**Report Date:** 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 27 Batch: WG1936913-2 WG1936913-3								
Nitrobenzene	63		85		40-140	30		50
NDPA/DPA	64		81		36-157	23		50
n-Nitrosodi-n-propylamine	58		76		32-121	27		50
Bis(2-ethylhexyl)phthalate	52		70		40-140	30		50
Butyl benzyl phthalate	59		76		40-140	25		50
Di-n-butylphthalate	58		76		40-140	27		50
Di-n-octylphthalate	48		68		40-140	34		50
Diethyl phthalate	60		78		40-140	26		50
Dimethyl phthalate	67		88		40-140	27		50
Benzo(a)anthracene	61		82		40-140	29		50
Benzo(a)pyrene	61		82		40-140	29		50
Benzo(b)fluoranthene	56		76		40-140	30		50
Benzo(k)fluoranthene	63		86		40-140	31		50
Chrysene	62		83		40-140	29		50
Acenaphthylene	66		86		40-140	26		50
Anthracene	64		84		40-140	27		50
Benzo(ghi)perylene	58		78		40-140	29		50
Fluorene	64		81		40-140	23		50
Phenanthrene	62		80		40-140	25		50
Dibenzo(a,h)anthracene	59		81		40-140	31		50
Indeno(1,2,3-cd)pyrene	58		77		40-140	28		50
Pyrene	68		90		35-142	28		50
Biphenyl	60		78		37-127	26		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 27 Batch: WG1936913-2 WG1936913-3								
4-Chloroaniline	69		86		40-140	22		50
2-Nitroaniline	69		89		47-134	25		50
3-Nitroaniline	56		70		26-129	22		50
4-Nitroaniline	58		75		41-125	26		50
Dibenzofuran	64		82		40-140	25		50
2-Methylnaphthalene	64		84		40-140	27		50
1,2,4,5-Tetrachlorobenzene	69		93		40-117	30		50
Acetophenone	53		70		14-144	28		50
n-Nitrosodimethylamine	51		67		22-100	27		50
2,4,6-Trichlorophenol	74		100		30-130	30		50
p-Chloro-m-cresol	66		87		26-103	27		50
2-Chlorophenol	60		78		25-102	26		50
2,4-Dichlorophenol	66		88		30-130	29		50
2,4-Dimethylphenol	58		76		30-130	27		50
2-Nitrophenol	65		86		30-130	28		50
4-Nitrophenol	69		91		11-114	28		50
2,4-Dinitrophenol	69		89		4-130	25		50
4,6-Dinitro-o-cresol	77		102		10-130	28		50
Pentachlorophenol	60		77		17-109	25		50
Phenol	58		77		26-90	28		50
2-Methylphenol	60		80		30-130.	29		50
3-Methylphenol/4-Methylphenol	64		85		30-130	28		50
2,4,5-Trichlorophenol	78		100		30-130	25		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2433440

Report Date: 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 27 Batch: WG1936913-2 WG1936913-3								
Benzoic Acid	60		77		10-110	25		50
Benzyl Alcohol	66		87		40-140	27		50
Carbazole	62		80		54-128	25		50
Atrazine	68		83		40-140	20		50
Benzaldehyde	48		63		40-140	27		50
Caprolactam	58		74		15-130	24		50
2,3,4,6-Tetrachlorophenol	75		96		40-140	25		50
1,4-Dioxane	39	Q	51		40-140	27		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	59		80		25-120
Phenol-d6	61		79		10-120
Nitrobenzene-d5	65		85		23-120
2-Fluorobiphenyl	71		92		30-120
2,4,6-Tribromophenol	63		80		10-136
4-Terphenyl-d14	71		93		18-120

# **PETROLEUM HYDROCARBONS**

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-21 D  
 Client ID: WC01D\_GRAB\_3-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 09:53  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/19/24 00:18  
 Analyst: MTC  
 Percent Solids: 85%

Extraction Method: EPA 3546  
 Extraction Date: 06/17/24 02:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
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Total EPH	6870		mg/kg	272	272.	10
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	584	Q	40-140
o-Terphenyl	1030	Q	40-140

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433440**Project Number:** 170562203**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433440-24 D  
 Client ID: DUP01\_GRAB\_061324  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 00:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/19/24 00:54  
 Analyst: MTC  
 Percent Solids: 89%

Extraction Method: EPA 3546  
 Extraction Date: 06/17/24 02:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	2330		mg/kg	256	256.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	152	Q	40-140
o-Terphenyl	129		40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-25  
 Client ID: WC05A\_GRAB\_1-2  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 12:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/18/24 17:12  
 Analyst: MTC  
 Percent Solids: 84%

Extraction Method: EPA 3546  
 Extraction Date: 06/17/24 02:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	123		mg/kg	28.0	28.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	75		40-140
o-Terphenyl	74		40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-28  
 Client ID: WC10D\_GRAB\_2-3  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 13:15  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/19/24 12:58  
 Analyst: MTC  
 Percent Solids: 78%

Extraction Method: EPA 3546  
 Extraction Date: 06/17/24 02:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	111		mg/kg	29.8	29.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	75		40-140
o-Terphenyl	77		40-140



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433440**Project Number:** 170562203**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433440-30 D  
 Client ID: WC02D\_GRAB\_3-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 14:50  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/19/24 09:11  
 Analyst: MTC  
 Percent Solids: 90%

Extraction Method: EPA 3546  
 Extraction Date: 06/17/24 02:08

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	18500		mg/kg	1310	1310	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 103,NJDEP EPH  
Analytical Date: 06/18/24 18:23  
Analyst: MTC

Extraction Method: EPA 3546  
Extraction Date: 06/17/24 02:08

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 21,24-25,28,30 Batch: WG1935056-1					
Total EPH	ND		mg/kg	23.6	23.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	83		40-140
o-Terphenyl	82		40-140

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2433440

**Project Number:** 170562203

**Report Date:** 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 21,24-25,28,30 Batch: WG1935056-2 WG1935056-3								
Total EPH	100		103		40-140	3		25
Nonane (C9)	93		97		40-140	4		25
Decane (C10)	98		104		40-140	6		25
Dodecane (C12)	93		98		40-140	5		25
Tetradecane (C14)	92		97		40-140	5		25
Hexadecane (C16)	92		96		40-140	4		25
Octadecane (C18)	87		93		40-140	7		25
Eicosane (C20)	88		93		40-140	6		25
Heneicosane (C21)	90		95		40-140	5		25
Docosane (C22)	89		94		40-140	5		25
Tetracosane (C24)	89		94		40-140	5		25
Hexacosane (C26)	88		92		40-140	4		25
Octacosane (C28)	89		93		40-140	4		25
triacontane (C30)	89		94		40-140	5		25
Dotriacontane (C32)	91		96		40-140	5		25
Tetracontane (C34)	90		95		40-140	5		25
Hexatriacontane (C36)	94		98		40-140	4		25
Octatriacontane (C38)	92		95		40-140	3		25
Tetracontane (C40)	96		99		40-140	3		25

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 21,24-25,28,30 Batch: WG1935056-2 WG1935056-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Chloro-Octadecane	86		88		40-140
o-Terphenyl	87		89		40-140

**Lab Duplicate Analysis**  
Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2433440

**Report Date:** 06/27/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 21,24-25,28,30 QC Batch ID: WG1935056-5 QC Sample: L2433116-01 Client ID: DUP Sample						
Total EPH	81200	82400	mg/kg	1		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	0	Q	40-140
o-Terphenyl	0	Q	0	Q	40-140

# PCBS

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

**Lab ID:** L2433440-22  
**Client ID:** WC01\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/13/24 11:00  
**Date Received:** 06/13/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/20/24 08:36  
**Analyst:** MEO  
**Percent Solids:** 89%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/19/24 17:40  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/20/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/20/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	54.8	4.86	1	A
Aroclor 1221	ND		ug/kg	54.8	5.49	1	A
Aroclor 1232	ND		ug/kg	54.8	11.6	1	A
Aroclor 1242	ND		ug/kg	54.8	7.39	1	A
Aroclor 1248	ND		ug/kg	54.8	8.22	1	A
Aroclor 1254	ND		ug/kg	54.8	5.99	1	A
Aroclor 1260	16.8	J	ug/kg	54.8	10.1	1	A
Aroclor 1262	ND		ug/kg	54.8	6.96	1	A
Aroclor 1268	ND		ug/kg	54.8	5.68	1	A
PCBs, Total	16.8	J	ug/kg	54.8	4.86	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		30-150	B
Decachlorobiphenyl	78		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-23  
 Client ID: DUP01\_COMP\_061324  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 00:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 06/20/24 07:40  
 Analyst: MEO  
 Percent Solids: 85%

Extraction Method: EPA 3546  
 Extraction Date: 06/19/24 17:40  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 06/20/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/20/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	54.8	4.87	1	A
Aroclor 1221	ND		ug/kg	54.8	5.49	1	A
Aroclor 1232	ND		ug/kg	54.8	11.6	1	A
Aroclor 1242	ND		ug/kg	54.8	7.39	1	A
Aroclor 1248	ND		ug/kg	54.8	8.22	1	A
Aroclor 1254	ND		ug/kg	54.8	6.00	1	A
Aroclor 1260	ND		ug/kg	54.8	10.1	1	A
Aroclor 1262	ND		ug/kg	54.8	6.96	1	A
Aroclor 1268	ND		ug/kg	54.8	5.68	1	A
PCBs, Total	ND		ug/kg	54.8	4.87	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	82		30-150	B



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

**Lab ID:** L2433440-26  
**Client ID:** WC05\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/13/24 12:05  
**Date Received:** 06/13/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/20/24 07:48  
**Analyst:** MEO  
**Percent Solids:** 87%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/19/24 17:40  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/20/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/20/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	52.9	4.70	1	A
Aroclor 1221	ND		ug/kg	52.9	5.30	1	A
Aroclor 1232	ND		ug/kg	52.9	11.2	1	A
Aroclor 1242	ND		ug/kg	52.9	7.13	1	A
Aroclor 1248	ND		ug/kg	52.9	7.94	1	A
Aroclor 1254	32.8	J	ug/kg	52.9	5.79	1	B
Aroclor 1260	23.2	J	ug/kg	52.9	9.78	1	A
Aroclor 1262	ND		ug/kg	52.9	6.72	1	A
Aroclor 1268	12.5	J	ug/kg	52.9	5.48	1	A
PCBs, Total	68.5	J	ug/kg	52.9	4.70	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		30-150	A
Decachlorobiphenyl	87		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	90		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

**Lab ID:** L2433440-27  
**Client ID:** WC10\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/13/24 13:20  
**Date Received:** 06/13/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/20/24 07:56  
**Analyst:** MEO  
**Percent Solids:** 87%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/19/24 17:40  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/20/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/20/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	56.5	5.02	1	A
Aroclor 1221	ND		ug/kg	56.5	5.66	1	A
Aroclor 1232	ND		ug/kg	56.5	12.0	1	A
Aroclor 1242	ND		ug/kg	56.5	7.62	1	A
Aroclor 1248	ND		ug/kg	56.5	8.48	1	A
Aroclor 1254	ND		ug/kg	56.5	6.18	1	A
Aroclor 1260	19.1	J	ug/kg	56.5	10.4	1	A
Aroclor 1262	ND		ug/kg	56.5	7.18	1	A
Aroclor 1268	9.35	J	ug/kg	56.5	5.86	1	A
PCBs, Total	28.5	J	ug/kg	56.5	5.02	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	68		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-29  
 Client ID: WC02\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 15:25  
 Date Received: 06/13/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 06/20/24 08:05  
 Analyst: MEO  
 Percent Solids: 79%

Extraction Method: EPA 3546  
 Extraction Date: 06/19/24 17:40  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 06/20/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/20/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	61.3	5.44	1	A
Aroclor 1221	ND		ug/kg	61.3	6.14	1	A
Aroclor 1232	ND		ug/kg	61.3	13.0	1	A
Aroclor 1242	ND		ug/kg	61.3	8.26	1	A
Aroclor 1248	ND		ug/kg	61.3	9.19	1	A
Aroclor 1254	ND		ug/kg	61.3	6.70	1	A
Aroclor 1260	ND		ug/kg	61.3	11.3	1	A
Aroclor 1262	ND		ug/kg	61.3	7.78	1	A
Aroclor 1268	ND		ug/kg	61.3	6.35	1	A
PCBs, Total	ND		ug/kg	61.3	5.44	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	88		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8082A  
Analytical Date: 06/20/24 07:16  
Analyst: MEO

Extraction Method: EPA 3546  
Extraction Date: 06/19/24 17:40  
Cleanup Method: EPA 3665A  
Cleanup Date: 06/20/24  
Cleanup Method: EPA 3660B  
Cleanup Date: 06/20/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 22-23,26-27,29 Batch: WG1936686-1						
Aroclor 1016	ND		ug/kg	46.0	4.08	A
Aroclor 1221	ND		ug/kg	46.0	4.60	A
Aroclor 1232	ND		ug/kg	46.0	9.74	A
Aroclor 1242	ND		ug/kg	46.0	6.19	A
Aroclor 1248	ND		ug/kg	46.0	6.89	A
Aroclor 1254	ND		ug/kg	46.0	5.03	A
Aroclor 1260	ND		ug/kg	46.0	8.49	A
Aroclor 1262	ND		ug/kg	46.0	5.84	A
Aroclor 1268	ND		ug/kg	46.0	4.76	A
PCBs, Total	ND		ug/kg	46.0	4.08	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		30-150	B
Decachlorobiphenyl	83		30-150	B

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 22-23,26-27,29 Batch: WG1936686-2 WG1936686-3									
Aroclor 1016	80		81		40-140	1		50	A
Aroclor 1260	77		77		40-140	0		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		82		30-150	A
Decachlorobiphenyl	81		84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	88		88		30-150	B
Decachlorobiphenyl	86		85		30-150	B

# PESTICIDES

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

**Lab ID:** L2433440-22  
**Client ID:** WC01\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/13/24 11:00  
**Date Received:** 06/13/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 06/19/24 22:53  
**Analyst:** EMR  
**Percent Solids:** 89%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/18/24 07:40  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 06/19/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/19/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.74	0.340	1	B
Lindane	ND		ug/kg	0.723	0.323	1	B
Alpha-BHC	ND		ug/kg	0.723	0.205	1	B
Beta-BHC	ND		ug/kg	1.74	0.658	1	B
Heptachlor	ND		ug/kg	0.868	0.389	1	B
Aldrin	ND		ug/kg	1.74	0.611	1	B
Heptachlor epoxide	ND		ug/kg	3.25	0.976	1	B
Endrin	ND		ug/kg	0.723	0.296	1	B
Endrin aldehyde	ND		ug/kg	2.17	0.759	1	B
Endrin ketone	ND		ug/kg	1.74	0.447	1	B
Dieldrin	ND		ug/kg	1.08	0.542	1	B
4,4'-DDE	ND		ug/kg	1.74	0.401	1	B
4,4'-DDD	ND		ug/kg	1.74	0.619	1	B
4,4'-DDT	ND		ug/kg	1.74	1.40	1	B
Endosulfan I	ND		ug/kg	1.74	0.410	1	B
Endosulfan II	ND		ug/kg	1.74	0.580	1	B
Endosulfan sulfate	ND		ug/kg	0.723	0.344	1	B
Methoxychlor	ND		ug/kg	3.25	1.01	1	B
Toxaphene	ND		ug/kg	32.5	9.11	1	B
cis-Chlordane	ND		ug/kg	2.17	0.605	1	B
trans-Chlordane	ND		ug/kg	2.17	0.573	1	B
Chlordane	ND		ug/kg	14.5	5.75	1	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-22  
 Client ID: WC01\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 11:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	26	Q	30-150	A
Decachlorobiphenyl	16	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	119		30-150	B



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-22  
 Client ID: WC01\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 11:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/20/24 14:05  
 Analyst: EJJ  
 Percent Solids: 89%  
 Methylation Date: 06/20/24 11:27

Extraction Method: EPA 8151A  
 Extraction Date: 06/19/24 09:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	185	11.6	1	A
2,4,5-T	ND		ug/kg	185	5.72	1	A
2,4,5-TP (Silvex)	ND		ug/kg	185	4.91	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	46		30-150	A
DCAA	45		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

**Lab ID:** L2433440-23  
**Client ID:** DUP01\_COMP\_061324  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/13/24 00:00  
**Date Received:** 06/13/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 06/19/24 23:04  
**Analyst:** EMR  
**Percent Solids:** 85%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/18/24 07:40  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 06/19/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/19/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.85	0.362	1	A
Lindane	ND		ug/kg	0.770	0.344	1	A
Alpha-BHC	ND		ug/kg	0.770	0.218	1	A
Beta-BHC	ND		ug/kg	1.85	0.700	1	A
Heptachlor	ND		ug/kg	0.923	0.414	1	A
Aldrin	ND		ug/kg	1.85	0.650	1	A
Heptachlor epoxide	ND		ug/kg	3.46	1.04	1	A
Endrin	ND		ug/kg	0.770	0.316	1	A
Endrin aldehyde	ND		ug/kg	2.31	0.808	1	A
Endrin ketone	ND		ug/kg	1.85	0.476	1	A
Dieldrin	ND		ug/kg	1.15	0.577	1	A
4,4'-DDE	ND		ug/kg	1.85	0.427	1	A
4,4'-DDD	ND		ug/kg	1.85	0.659	1	A
4,4'-DDT	ND		ug/kg	1.85	1.48	1	A
Endosulfan I	ND		ug/kg	1.85	0.436	1	A
Endosulfan II	ND		ug/kg	1.85	0.617	1	A
Endosulfan sulfate	ND		ug/kg	0.770	0.366	1	A
Methoxychlor	ND		ug/kg	3.46	1.08	1	A
Toxaphene	ND		ug/kg	34.6	9.70	1	A
cis-Chlordane	ND		ug/kg	2.31	0.643	1	A
trans-Chlordane	ND		ug/kg	2.31	0.609	1	A
Chlordane	ND		ug/kg	15.4	6.12	1	A

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-23  
 Client ID: DUP01\_COMP\_061324  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 00:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	46		30-150	A
Decachlorobiphenyl	43		30-150	A
2,4,5,6-Tetrachloro-m-xylene	60		30-150	B
Decachlorobiphenyl	412	Q	30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-23  
 Client ID: DUP01\_COMP\_061324  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 00:00  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/20/24 14:23  
 Analyst: EJL  
 Percent Solids: 85%  
 Methylation Date: 06/20/24 11:27

Extraction Method: EPA 8151A  
 Extraction Date: 06/19/24 09:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	195	12.3	1	A
2,4,5-T	ND		ug/kg	195	6.06	1	A
2,4,5-TP (Silvex)	ND		ug/kg	195	5.20	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	87		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

**Lab ID:** L2433440-26  
**Client ID:** WC05\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/13/24 12:05  
**Date Received:** 06/13/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 06/19/24 23:16  
**Analyst:** EMR  
**Percent Solids:** 87%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/18/24 07:40  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 06/19/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/19/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.79	0.351	1	A
Lindane	ND		ug/kg	0.746	0.334	1	A
Alpha-BHC	ND		ug/kg	0.746	0.212	1	A
Beta-BHC	ND		ug/kg	1.79	0.679	1	A
Heptachlor	ND		ug/kg	0.896	0.402	1	A
Aldrin	ND		ug/kg	1.79	0.631	1	A
Heptachlor epoxide	ND		ug/kg	3.36	1.01	1	A
Endrin	ND		ug/kg	0.746	0.306	1	A
Endrin aldehyde	ND		ug/kg	2.24	0.784	1	A
Endrin ketone	ND		ug/kg	1.79	0.461	1	A
Dieldrin	ND		ug/kg	1.12	0.560	1	A
4,4'-DDE	11.6		ug/kg	1.79	0.414	1	B
4,4'-DDD	18.8		ug/kg	1.79	0.639	1	B
4,4'-DDT	18.6		ug/kg	1.79	1.44	1	B
Endosulfan I	ND		ug/kg	1.79	0.423	1	A
Endosulfan II	ND		ug/kg	1.79	0.599	1	A
Endosulfan sulfate	ND		ug/kg	0.746	0.355	1	A
Methoxychlor	ND		ug/kg	3.36	1.04	1	A
Toxaphene	ND		ug/kg	33.6	9.40	1	A
cis-Chlordane	7.55		ug/kg	2.24	0.624	1	B
trans-Chlordane	6.38		ug/kg	2.24	0.591	1	B
Chlordane	ND		ug/kg	14.9	5.93	1	A

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433440**Project Number:** 170562203**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433440-26  
 Client ID: WC05\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 12:05  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	44		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	129		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-26  
 Client ID: WC05\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 12:05  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/20/24 14:41  
 Analyst: EJJ  
 Percent Solids: 87%  
 Methylation Date: 06/20/24 11:27

Extraction Method: EPA 8151A  
 Extraction Date: 06/19/24 09:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	186	11.7	1	A
2,4,5-T	ND		ug/kg	186	5.78	1	A
2,4,5-TP (Silvex)	ND		ug/kg	186	4.96	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	59		30-150	A
DCAA	63		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

**Lab ID:** L2433440-27  
**Client ID:** WC10\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/13/24 13:20  
**Date Received:** 06/13/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 06/19/24 23:27  
**Analyst:** EMR  
**Percent Solids:** 87%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/18/24 07:40  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 06/19/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/19/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.77	0.347	1	B
Lindane	ND		ug/kg	0.738	0.330	1	B
Alpha-BHC	ND		ug/kg	0.738	0.210	1	B
Beta-BHC	ND		ug/kg	1.77	0.671	1	B
Heptachlor	ND		ug/kg	0.885	0.397	1	B
Aldrin	ND		ug/kg	1.77	0.623	1	B
Heptachlor epoxide	ND		ug/kg	3.32	0.996	1	B
Endrin	ND		ug/kg	0.738	0.302	1	B
Endrin aldehyde	ND		ug/kg	2.21	0.774	1	B
Endrin ketone	ND		ug/kg	1.77	0.456	1	B
Dieldrin	ND		ug/kg	1.11	0.553	1	B
4,4'-DDE	15.1	P	ug/kg	1.77	0.409	1	B
4,4'-DDD	30.6	P	ug/kg	1.77	0.631	1	B
4,4'-DDT	12.2	IP	ug/kg	1.77	1.42	1	B
Endosulfan I	ND		ug/kg	1.77	0.418	1	B
Endosulfan II	ND		ug/kg	1.77	0.592	1	B
Endosulfan sulfate	ND		ug/kg	0.738	0.351	1	B
Methoxychlor	ND		ug/kg	3.32	1.03	1	B
Toxaphene	ND		ug/kg	33.2	9.29	1	B
cis-Chlordane	18.2	P	ug/kg	2.21	0.617	1	B
trans-Chlordane	22.8	IP	ug/kg	2.21	0.584	1	B
Chlordane	ND		ug/kg	14.8	5.86	1	B



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-27  
 Client ID: WC10\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 13:20  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	124		30-150	A
Decachlorobiphenyl	20	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	44		30-150	B



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-27  
 Client ID: WC10\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 13:20  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/20/24 15:00  
 Analyst: EJL  
 Percent Solids: 87%  
 Methylation Date: 06/20/24 11:27

Extraction Method: EPA 8151A  
 Extraction Date: 06/19/24 09:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	190	12.0	1	A
2,4,5-T	ND		ug/kg	190	5.89	1	A
2,4,5-TP (Silvex)	ND		ug/kg	190	5.05	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	60		30-150	A
DCAA	60		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-29  
 Client ID: WC02\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 15:25  
 Date Received: 06/13/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 06/19/24 23:38  
 Analyst: EMR  
 Percent Solids: 79%

Extraction Method: EPA 3546  
 Extraction Date: 06/18/24 07:40  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 06/19/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/19/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.95	0.382	1	A
Lindane	ND		ug/kg	0.813	0.364	1	A
Alpha-BHC	ND		ug/kg	0.813	0.231	1	A
Beta-BHC	ND		ug/kg	1.95	0.740	1	A
Heptachlor	ND		ug/kg	0.976	0.438	1	A
Aldrin	ND		ug/kg	1.95	0.687	1	A
Heptachlor epoxide	ND		ug/kg	3.66	1.10	1	A
Endrin	ND		ug/kg	0.813	0.334	1	A
Endrin aldehyde	ND		ug/kg	2.44	0.854	1	A
Endrin ketone	ND		ug/kg	1.95	0.503	1	A
Dieldrin	ND		ug/kg	1.22	0.610	1	A
4,4'-DDE	ND		ug/kg	1.95	0.451	1	A
4,4'-DDD	0.752	JIP	ug/kg	1.95	0.696	1	B
4,4'-DDT	ND		ug/kg	1.95	1.57	1	B
Endosulfan I	ND		ug/kg	1.95	0.461	1	A
Endosulfan II	ND		ug/kg	1.95	0.652	1	A
Endosulfan sulfate	ND		ug/kg	0.813	0.387	1	A
Methoxychlor	ND		ug/kg	3.66	1.14	1	A
Toxaphene	ND		ug/kg	36.6	10.2	1	A
cis-Chlordane	ND		ug/kg	2.44	0.680	1	A
trans-Chlordane	ND		ug/kg	2.44	0.644	1	A
Chlordane	ND		ug/kg	16.3	6.47	1	A

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-29  
 Client ID: WC02\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 15:25  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	55		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	57		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

Lab ID: L2433440-29  
 Client ID: WC02\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/13/24 15:25  
 Date Received: 06/13/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/20/24 15:18  
 Analyst: EJL  
 Percent Solids: 79%  
 Methylation Date: 06/20/24 11:27

Extraction Method: EPA 8151A  
 Extraction Date: 06/19/24 09:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	206	13.0	1	A
2,4,5-T	ND		ug/kg	206	6.39	1	A
2,4,5-TP (Silvex)	ND		ug/kg	206	5.48	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	85		30-150	A
DCAA	82		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 06/19/24 22:20  
Analyst: EMR

Extraction Method: EPA 3546  
Extraction Date: 06/18/24 07:40  
Cleanup Method: EPA 3620B  
Cleanup Date: 06/19/24  
Cleanup Method: EPA 3660B  
Cleanup Date: 06/19/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 22-23,26-27,29 Batch: WG1935715-1						
Delta-BHC	ND		ug/kg	1.56	0.306	A
Lindane	ND		ug/kg	0.652	0.291	A
Alpha-BHC	ND		ug/kg	0.652	0.185	A
Beta-BHC	ND		ug/kg	1.56	0.593	A
Heptachlor	ND		ug/kg	0.782	0.351	A
Aldrin	ND		ug/kg	1.56	0.551	A
Heptachlor epoxide	ND		ug/kg	2.93	0.880	A
Endrin	ND		ug/kg	0.652	0.267	A
Endrin aldehyde	ND		ug/kg	1.96	0.684	A
Endrin ketone	ND		ug/kg	1.56	0.403	A
Dieldrin	ND		ug/kg	0.978	0.489	A
4,4'-DDE	ND		ug/kg	1.56	0.362	A
4,4'-DDD	ND		ug/kg	1.56	0.558	A
4,4'-DDT	ND		ug/kg	1.56	1.26	A
Endosulfan I	ND		ug/kg	1.56	0.370	A
Endosulfan II	ND		ug/kg	1.56	0.523	A
Endosulfan sulfate	ND		ug/kg	0.652	0.310	A
Methoxychlor	ND		ug/kg	2.93	0.913	A
Toxaphene	ND		ug/kg	29.3	8.21	A
cis-Chlordane	ND		ug/kg	1.96	0.545	A
trans-Chlordane	ND		ug/kg	1.96	0.516	A
Chlordane	ND		ug/kg	13.0	5.18	A

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis  
 Batch Quality Control**

Analytical Method: 1,8081B  
 Analytical Date: 06/19/24 22:20  
 Analyst: EMR

Extraction Method: EPA 3546  
 Extraction Date: 06/18/24 07:40  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 06/19/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/19/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s):	22-23,26-27,29	Batch:	WG1935715-1			

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	65		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8151A  
Analytical Date: 06/20/24 12:50  
Analyst: EJL

Extraction Method: EPA 8151A  
Extraction Date: 06/19/24 09:10

Methylation Date: 06/20/24 11:27

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 22-23,26-27,29 Batch: WG1936372-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.02	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.31	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	76		30-150	A
DCAA	78		30-150	B



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2433440

Report Date: 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 22-23,26-27,29 Batch: WG1935715-2 WG1935715-3									
Delta-BHC	69		52		30-150	28		30	A
Lindane	69		50		30-150	32	Q	30	A
Alpha-BHC	67		50		30-150	29		30	A
Beta-BHC	67		50		30-150	29		30	A
Heptachlor	75		52		30-150	36	Q	30	A
Aldrin	69		50		30-150	32	Q	30	A
Heptachlor epoxide	57		42		30-150	30		30	A
Endrin	73		54		30-150	30		30	A
Endrin aldehyde	62		43		30-150	36	Q	30	A
Endrin ketone	65		47		30-150	32	Q	30	A
Dieldrin	76		55		30-150	32	Q	30	A
4,4'-DDE	67		49		30-150	31	Q	30	A
4,4'-DDD	75		54		30-150	33	Q	30	A
4,4'-DDT	76		53		30-150	36	Q	30	A
Endosulfan I	67		49		30-150	31	Q	30	A
Endosulfan II	72		52		30-150	32	Q	30	A
Endosulfan sulfate	60		44		30-150	31	Q	30	A
Methoxychlor	83		58		30-150	35	Q	30	A
cis-Chlordane	62		46		30-150	30		30	A
trans-Chlordane	74		55		30-150	29		30	A

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 22-23,26-27,29 Batch: WG1935715-2 WG1935715-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	59		42		30-150	A
Decachlorobiphenyl	52		40		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		50		30-150	B
Decachlorobiphenyl	62		46		30-150	B

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 22-23,26-27,29 Batch: WG1936372-2 WG1936372-3									
2,4-D	81		81		30-150	0		30	A
2,4,5-T	87		88		30-150	1		30	A
2,4,5-TP (Silvex)	81		80		30-150	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	80		81		30-150	A
DCAA	92		86		30-150	B

## METALS

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433440**Project Number:** 170562203**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433440-22

Date Collected: 06/13/24 11:00

Client ID: WC01\_COMP\_0-4

Date Received: 06/13/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/17/24 04:21

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	0.0383	J	mg/l	1.00	0.0190	1	06/19/24 22:30	06/20/24 10:23	EPA 3015	1,6010D	JMF
Barium, TCLP	0.695		mg/l	0.500	0.0210	1	06/19/24 22:30	06/20/24 10:23	EPA 3015	1,6010D	JMF
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/19/24 22:30	06/20/24 10:23	EPA 3015	1,6010D	JMF
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/19/24 22:30	06/20/24 10:23	EPA 3015	1,6010D	JMF
Lead, TCLP	0.0303	J	mg/l	0.500	0.0270	1	06/19/24 22:30	06/20/24 10:23	EPA 3015	1,6010D	JMF
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/19/24 20:42	06/20/24 13:03	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/19/24 22:30	06/20/24 10:23	EPA 3015	1,6010D	JMF
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/19/24 22:30	06/20/24 10:23	EPA 3015	1,6010D	JMF



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433440-22

Date Collected: 06/13/24 11:00

Client ID: WC01\_COMP\_0-4

Date Received: 06/13/24

Sample Location: 145-165 WOLCOTT STREET

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
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	3840		mg/kg	17.5	4.71	4	06/19/24 20:03	06/20/24 08:49	EPA 3050B	1,6010D	DHL
Antimony, Total	11.5		mg/kg	8.73	0.664	4	06/19/24 20:03	06/20/24 08:49	EPA 3050B	1,6010D	DHL
Arsenic, Total	20.8		mg/kg	1.75	0.363	4	06/19/24 20:03	06/20/24 08:49	EPA 3050B	1,6010D	DHL
Barium, Total	69.0		mg/kg	1.75	0.304	4	06/19/24 20:03	06/20/24 08:49	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.222	J	mg/kg	0.873	0.058	4	06/19/24 20:03	06/20/24 08:49	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.449	J	mg/kg	1.75	0.171	4	06/19/24 20:03	06/20/24 08:49	EPA 3050B	1,6010D	DHL
Calcium, Total	10800		mg/kg	17.5	6.11	4	06/19/24 20:03	06/20/24 08:49	EPA 3050B	1,6010D	DHL
Chromium, Total	32.3		mg/kg	1.75	0.168	4	06/19/24 20:03	06/20/24 08:49	EPA 3050B	1,6010D	DHL
Cobalt, Total	23.0		mg/kg	3.49	0.290	4	06/19/24 20:03	06/20/24 08:49	EPA 3050B	1,6010D	DHL
Copper, Total	86.9		mg/kg	1.75	0.450	4	06/19/24 20:03	06/20/24 08:49	EPA 3050B	1,6010D	DHL
Iron, Total	61400		mg/kg	8.73	1.58	4	06/19/24 20:03	06/20/24 08:49	EPA 3050B	1,6010D	DHL
Lead, Total	134		mg/kg	8.73	0.468	4	06/19/24 20:03	06/20/24 08:49	EPA 3050B	1,6010D	DHL
Magnesium, Total	5590		mg/kg	17.5	2.69	4	06/19/24 20:03	06/20/24 08:49	EPA 3050B	1,6010D	DHL
Manganese, Total	975		mg/kg	1.75	0.278	4	06/19/24 20:03	06/20/24 08:49	EPA 3050B	1,6010D	DHL
Mercury, Total	0.234		mg/kg	0.083	0.054	1	06/19/24 20:24	06/20/24 08:38	EPA 7471B	1,7471B	JWN
Nickel, Total	49.2		mg/kg	4.36	0.422	4	06/19/24 20:03	06/20/24 08:49	EPA 3050B	1,6010D	DHL
Potassium, Total	394	J	mg/kg	436	25.1	4	06/19/24 20:03	06/20/24 08:49	EPA 3050B	1,6010D	DHL
Selenium, Total	ND		mg/kg	3.49	0.450	4	06/19/24 20:03	06/20/24 08:49	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.873	0.494	4	06/19/24 20:03	06/20/24 08:49	EPA 3050B	1,6010D	DHL
Sodium, Total	137	J	mg/kg	349	5.50	4	06/19/24 20:03	06/20/24 08:49	EPA 3050B	1,6010D	DHL
Thallium, Total	ND		mg/kg	3.49	0.550	4	06/19/24 20:03	06/20/24 08:49	EPA 3050B	1,6010D	DHL
Vanadium, Total	86.4		mg/kg	1.75	0.354	4	06/19/24 20:03	06/20/24 08:49	EPA 3050B	1,6010D	DHL
Zinc, Total	186		mg/kg	8.73	0.512	4	06/19/24 20:03	06/20/24 08:49	EPA 3050B	1,6010D	DHL
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	32.3		mg/kg	1.75	0.179	1		06/20/24 11:56	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433440**Project Number:** 170562203**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433440-23

Date Collected: 06/13/24 00:00

Client ID: DUP01\_COMP\_061324

Date Received: 06/13/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/17/24 04:21

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/19/24 22:30	06/20/24 10:26	EPA 3015	1,6010D	JMF
Barium, TCLP	0.931		mg/l	0.500	0.0210	1	06/19/24 22:30	06/20/24 10:26	EPA 3015	1,6010D	JMF
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/19/24 22:30	06/20/24 10:26	EPA 3015	1,6010D	JMF
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/19/24 22:30	06/20/24 10:26	EPA 3015	1,6010D	JMF
Lead, TCLP	0.174	J	mg/l	0.500	0.0270	1	06/19/24 22:30	06/20/24 10:26	EPA 3015	1,6010D	JMF
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/19/24 20:42	06/20/24 13:06	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/19/24 22:30	06/20/24 10:26	EPA 3015	1,6010D	JMF
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/19/24 22:30	06/20/24 10:26	EPA 3015	1,6010D	JMF



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433440-23

Date Collected: 06/13/24 00:00

Client ID: DUP01\_COMP\_061324

Date Received: 06/13/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	4670		mg/kg	9.13	2.46	2	06/19/24 20:03	06/20/24 00:10	EPA 3050B	1,6010D	JMF
Antimony, Total	1.16	J	mg/kg	4.56	0.347	2	06/19/24 20:03	06/20/24 00:10	EPA 3050B	1,6010D	JMF
Arsenic, Total	6.01		mg/kg	0.913	0.190	2	06/19/24 20:03	06/20/24 00:10	EPA 3050B	1,6010D	JMF
Barium, Total	79.8		mg/kg	0.913	0.159	2	06/19/24 20:03	06/20/24 00:10	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.257	J	mg/kg	0.456	0.030	2	06/19/24 20:03	06/20/24 00:10	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.164	J	mg/kg	0.913	0.089	2	06/19/24 20:03	06/20/24 00:10	EPA 3050B	1,6010D	JMF
Calcium, Total	7690		mg/kg	9.13	3.19	2	06/19/24 20:03	06/20/24 00:10	EPA 3050B	1,6010D	JMF
Chromium, Total	9.75		mg/kg	0.913	0.088	2	06/19/24 20:03	06/20/24 00:10	EPA 3050B	1,6010D	JMF
Cobalt, Total	6.86		mg/kg	1.82	0.152	2	06/19/24 20:03	06/20/24 00:10	EPA 3050B	1,6010D	JMF
Copper, Total	92.0		mg/kg	0.913	0.235	2	06/19/24 20:03	06/20/24 00:10	EPA 3050B	1,6010D	JMF
Iron, Total	18000		mg/kg	4.56	0.824	2	06/19/24 20:03	06/20/24 00:10	EPA 3050B	1,6010D	JMF
Lead, Total	172		mg/kg	4.56	0.245	2	06/19/24 20:03	06/20/24 00:10	EPA 3050B	1,6010D	JMF
Magnesium, Total	1400		mg/kg	9.13	1.40	2	06/19/24 20:03	06/20/24 00:10	EPA 3050B	1,6010D	JMF
Manganese, Total	221		mg/kg	0.913	0.145	2	06/19/24 20:03	06/20/24 00:10	EPA 3050B	1,6010D	JMF
Mercury, Total	0.521		mg/kg	0.085	0.056	1	06/19/24 20:24	06/20/24 08:41	EPA 7471B	1,7471B	JWN
Nickel, Total	19.1		mg/kg	2.28	0.221	2	06/19/24 20:03	06/20/24 00:10	EPA 3050B	1,6010D	JMF
Potassium, Total	632		mg/kg	228	13.1	2	06/19/24 20:03	06/20/24 00:10	EPA 3050B	1,6010D	JMF
Selenium, Total	0.381	J	mg/kg	1.82	0.235	2	06/19/24 20:03	06/20/24 00:10	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.456	0.258	2	06/19/24 20:03	06/20/24 00:10	EPA 3050B	1,6010D	JMF
Sodium, Total	85.2	J	mg/kg	182	2.88	2	06/19/24 20:03	06/20/24 00:10	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.82	0.288	2	06/19/24 20:03	06/20/24 00:10	EPA 3050B	1,6010D	JMF
Vanadium, Total	17.0		mg/kg	0.913	0.185	2	06/19/24 20:03	06/20/24 00:10	EPA 3050B	1,6010D	JMF
Zinc, Total	126		mg/kg	4.56	0.267	2	06/19/24 20:03	06/20/24 00:10	EPA 3050B	1,6010D	JMF
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	9.75		mg/kg	0.946	0.189	1		06/20/24 11:56	NA	107,-	





**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433440**Project Number:** 170562203**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433440-26

Date Collected: 06/13/24 12:05

Client ID: WC05\_COMP\_0-4

Date Received: 06/13/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/17/24 04:21

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	0.0371	J	mg/l	1.00	0.0190	1	06/19/24 22:30	06/20/24 10:30	EPA 3015	1,6010D	JMF
Barium, TCLP	0.580		mg/l	0.500	0.0210	1	06/19/24 22:30	06/20/24 10:30	EPA 3015	1,6010D	JMF
Cadmium, TCLP	0.0297	J	mg/l	0.100	0.0100	1	06/19/24 22:30	06/20/24 10:30	EPA 3015	1,6010D	JMF
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/19/24 22:30	06/20/24 10:30	EPA 3015	1,6010D	JMF
Lead, TCLP	0.491	J	mg/l	0.500	0.0270	1	06/19/24 22:30	06/20/24 10:30	EPA 3015	1,6010D	JMF
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/19/24 20:42	06/20/24 13:09	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/19/24 22:30	06/20/24 10:30	EPA 3015	1,6010D	JMF
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/19/24 22:30	06/20/24 10:30	EPA 3015	1,6010D	JMF



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433440-26

Date Collected: 06/13/24 12:05

Client ID: WC05\_COMP\_0-4

Date Received: 06/13/24

Sample Location: 145-165 WOLCOTT STREET

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
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	5390		mg/kg	9.07	2.45	2	06/19/24 20:03	06/20/24 00:13	EPA 3050B	1,6010D	JMF
Antimony, Total	0.404	J	mg/kg	4.53	0.345	2	06/19/24 20:03	06/20/24 00:13	EPA 3050B	1,6010D	JMF
Arsenic, Total	7.28		mg/kg	0.907	0.189	2	06/19/24 20:03	06/20/24 00:13	EPA 3050B	1,6010D	JMF
Barium, Total	219		mg/kg	0.907	0.158	2	06/19/24 20:03	06/20/24 00:13	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.302	J	mg/kg	0.453	0.030	2	06/19/24 20:03	06/20/24 00:13	EPA 3050B	1,6010D	JMF
Cadmium, Total	2.52		mg/kg	0.907	0.089	2	06/19/24 20:03	06/20/24 00:13	EPA 3050B	1,6010D	JMF
Calcium, Total	27100		mg/kg	9.07	3.17	2	06/19/24 20:03	06/20/24 00:13	EPA 3050B	1,6010D	JMF
Chromium, Total	13.9		mg/kg	0.907	0.087	2	06/19/24 20:03	06/20/24 00:13	EPA 3050B	1,6010D	JMF
Cobalt, Total	5.09		mg/kg	1.81	0.150	2	06/19/24 20:03	06/20/24 00:13	EPA 3050B	1,6010D	JMF
Copper, Total	45.8		mg/kg	0.907	0.234	2	06/19/24 20:03	06/20/24 00:13	EPA 3050B	1,6010D	JMF
Iron, Total	12100		mg/kg	4.53	0.819	2	06/19/24 20:03	06/20/24 00:13	EPA 3050B	1,6010D	JMF
Lead, Total	411		mg/kg	4.53	0.243	2	06/19/24 20:03	06/20/24 00:13	EPA 3050B	1,6010D	JMF
Magnesium, Total	9680		mg/kg	9.07	1.40	2	06/19/24 20:03	06/20/24 00:13	EPA 3050B	1,6010D	JMF
Manganese, Total	211		mg/kg	0.907	0.144	2	06/19/24 20:03	06/20/24 00:13	EPA 3050B	1,6010D	JMF
Mercury, Total	1.17		mg/kg	0.089	0.058	1	06/19/24 20:24	06/20/24 08:44	EPA 7471B	1,7471B	JWN
Nickel, Total	17.0		mg/kg	2.27	0.219	2	06/19/24 20:03	06/20/24 00:13	EPA 3050B	1,6010D	JMF
Potassium, Total	850		mg/kg	227	13.0	2	06/19/24 20:03	06/20/24 00:13	EPA 3050B	1,6010D	JMF
Selenium, Total	0.507	J	mg/kg	1.81	0.234	2	06/19/24 20:03	06/20/24 00:13	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.453	0.257	2	06/19/24 20:03	06/20/24 00:13	EPA 3050B	1,6010D	JMF
Sodium, Total	199		mg/kg	181	2.86	2	06/19/24 20:03	06/20/24 00:13	EPA 3050B	1,6010D	JMF
Thallium, Total	0.412	J	mg/kg	1.81	0.286	2	06/19/24 20:03	06/20/24 00:13	EPA 3050B	1,6010D	JMF
Vanadium, Total	26.4		mg/kg	0.907	0.184	2	06/19/24 20:03	06/20/24 00:13	EPA 3050B	1,6010D	JMF
Zinc, Total	308		mg/kg	4.53	0.266	2	06/19/24 20:03	06/20/24 00:13	EPA 3050B	1,6010D	JMF
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	13.9		mg/kg	0.918	0.184	1		06/20/24 11:56	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433440**Project Number:** 170562203**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433440-27

Date Collected: 06/13/24 13:20

Client ID: WC10\_COMP\_0-4

Date Received: 06/13/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/17/24 04:21

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	0.0385	J	mg/l	1.00	0.0190	1	06/19/24 22:30	06/20/24 10:33	EPA 3015	1,6010D	JMF
Barium, TCLP	0.500		mg/l	0.500	0.0210	1	06/19/24 22:30	06/20/24 10:33	EPA 3015	1,6010D	JMF
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/19/24 22:30	06/20/24 10:33	EPA 3015	1,6010D	JMF
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/19/24 22:30	06/20/24 10:33	EPA 3015	1,6010D	JMF
Lead, TCLP	0.367	J	mg/l	0.500	0.0270	1	06/19/24 22:30	06/20/24 10:33	EPA 3015	1,6010D	JMF
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/19/24 20:42	06/20/24 13:13	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/19/24 22:30	06/20/24 10:33	EPA 3015	1,6010D	JMF
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/19/24 22:30	06/20/24 10:33	EPA 3015	1,6010D	JMF



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433440-27

Date Collected: 06/13/24 13:20

Client ID: WC10\_COMP\_0-4

Date Received: 06/13/24

Sample Location: 145-165 WOLCOTT STREET

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
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	4040		mg/kg	8.94	2.42	2	06/19/24 20:03	06/20/24 00:17	EPA 3050B	1,6010D	JMF
Antimony, Total	1.58	J	mg/kg	4.47	0.340	2	06/19/24 20:03	06/20/24 00:17	EPA 3050B	1,6010D	JMF
Arsenic, Total	7.95		mg/kg	0.894	0.186	2	06/19/24 20:03	06/20/24 00:17	EPA 3050B	1,6010D	JMF
Barium, Total	580		mg/kg	0.894	0.156	2	06/19/24 20:03	06/20/24 00:17	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.239	J	mg/kg	0.447	0.030	2	06/19/24 20:03	06/20/24 00:17	EPA 3050B	1,6010D	JMF
Cadmium, Total	1.07		mg/kg	0.894	0.088	2	06/19/24 20:03	06/20/24 00:17	EPA 3050B	1,6010D	JMF
Calcium, Total	15100		mg/kg	8.94	3.13	2	06/19/24 20:03	06/20/24 00:17	EPA 3050B	1,6010D	JMF
Chromium, Total	20.2		mg/kg	0.894	0.086	2	06/19/24 20:03	06/20/24 00:17	EPA 3050B	1,6010D	JMF
Cobalt, Total	4.90		mg/kg	1.79	0.148	2	06/19/24 20:03	06/20/24 00:17	EPA 3050B	1,6010D	JMF
Copper, Total	44.2		mg/kg	0.894	0.231	2	06/19/24 20:03	06/20/24 00:17	EPA 3050B	1,6010D	JMF
Iron, Total	10000		mg/kg	4.47	0.808	2	06/19/24 20:03	06/20/24 00:17	EPA 3050B	1,6010D	JMF
Lead, Total	2340		mg/kg	4.47	0.240	2	06/19/24 20:03	06/20/24 00:17	EPA 3050B	1,6010D	JMF
Magnesium, Total	3550		mg/kg	8.94	1.38	2	06/19/24 20:03	06/20/24 00:17	EPA 3050B	1,6010D	JMF
Manganese, Total	124		mg/kg	0.894	0.142	2	06/19/24 20:03	06/20/24 00:17	EPA 3050B	1,6010D	JMF
Mercury, Total	0.627		mg/kg	0.079	0.052	1	06/19/24 20:24	06/20/24 08:48	EPA 7471B	1,7471B	JWN
Nickel, Total	19.0		mg/kg	2.24	0.216	2	06/19/24 20:03	06/20/24 00:17	EPA 3050B	1,6010D	JMF
Potassium, Total	1230		mg/kg	224	12.9	2	06/19/24 20:03	06/20/24 00:17	EPA 3050B	1,6010D	JMF
Selenium, Total	0.861	J	mg/kg	1.79	0.231	2	06/19/24 20:03	06/20/24 00:17	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.447	0.253	2	06/19/24 20:03	06/20/24 00:17	EPA 3050B	1,6010D	JMF
Sodium, Total	93.9	J	mg/kg	179	2.82	2	06/19/24 20:03	06/20/24 00:17	EPA 3050B	1,6010D	JMF
Thallium, Total	0.395	J	mg/kg	1.79	0.282	2	06/19/24 20:03	06/20/24 00:17	EPA 3050B	1,6010D	JMF
Vanadium, Total	21.6		mg/kg	0.894	0.182	2	06/19/24 20:03	06/20/24 00:17	EPA 3050B	1,6010D	JMF
Zinc, Total	725		mg/kg	4.47	0.262	2	06/19/24 20:03	06/20/24 00:17	EPA 3050B	1,6010D	JMF
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	20.2		mg/kg	0.915	0.183	1		06/20/24 11:56	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433440**Project Number:** 170562203**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433440-29

Date Collected: 06/13/24 15:25

Client ID: WC02\_COMP\_0-4

Date Received: 06/13/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/17/24 04:21

Matrix: Soil

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	0.0198	J	mg/l	1.00	0.0190	1	06/19/24 22:30	06/20/24 10:47	EPA 3015	1,6010D	JMF
Barium, TCLP	0.783		mg/l	0.500	0.0210	1	06/19/24 22:30	06/20/24 10:47	EPA 3015	1,6010D	JMF
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/19/24 22:30	06/20/24 10:47	EPA 3015	1,6010D	JMF
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/19/24 22:30	06/20/24 10:47	EPA 3015	1,6010D	JMF
Lead, TCLP	0.134	J	mg/l	0.500	0.0270	1	06/19/24 22:30	06/20/24 10:47	EPA 3015	1,6010D	JMF
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/19/24 20:42	06/20/24 13:16	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/19/24 22:30	06/20/24 10:47	EPA 3015	1,6010D	JMF
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/19/24 22:30	06/20/24 10:47	EPA 3015	1,6010D	JMF



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433440-29

Date Collected: 06/13/24 15:25

Client ID: WC02\_COMP\_0-4

Date Received: 06/13/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 79%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	5210		mg/kg	9.80	2.65	2	06/19/24 20:03	06/20/24 00:20	EPA 3050B	1,6010D	JMF
Antimony, Total	0.885	J	mg/kg	4.90	0.372	2	06/19/24 20:03	06/20/24 00:20	EPA 3050B	1,6010D	JMF
Arsenic, Total	7.46		mg/kg	0.980	0.204	2	06/19/24 20:03	06/20/24 00:20	EPA 3050B	1,6010D	JMF
Barium, Total	104		mg/kg	0.980	0.170	2	06/19/24 20:03	06/20/24 00:20	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.284	J	mg/kg	0.490	0.032	2	06/19/24 20:03	06/20/24 00:20	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.206	J	mg/kg	0.980	0.096	2	06/19/24 20:03	06/20/24 00:20	EPA 3050B	1,6010D	JMF
Calcium, Total	6950		mg/kg	9.80	3.43	2	06/19/24 20:03	06/20/24 00:20	EPA 3050B	1,6010D	JMF
Chromium, Total	11.4		mg/kg	0.980	0.094	2	06/19/24 20:03	06/20/24 00:20	EPA 3050B	1,6010D	JMF
Cobalt, Total	8.43		mg/kg	1.96	0.163	2	06/19/24 20:03	06/20/24 00:20	EPA 3050B	1,6010D	JMF
Copper, Total	101		mg/kg	0.980	0.253	2	06/19/24 20:03	06/20/24 00:20	EPA 3050B	1,6010D	JMF
Iron, Total	25200		mg/kg	4.90	0.885	2	06/19/24 20:03	06/20/24 00:20	EPA 3050B	1,6010D	JMF
Lead, Total	209		mg/kg	4.90	0.263	2	06/19/24 20:03	06/20/24 00:20	EPA 3050B	1,6010D	JMF
Magnesium, Total	1610		mg/kg	9.80	1.51	2	06/19/24 20:03	06/20/24 00:20	EPA 3050B	1,6010D	JMF
Manganese, Total	307		mg/kg	0.980	0.156	2	06/19/24 20:03	06/20/24 00:20	EPA 3050B	1,6010D	JMF
Mercury, Total	0.640		mg/kg	0.092	0.060	1	06/19/24 20:24	06/20/24 08:51	EPA 7471B	1,7471B	JWN
Nickel, Total	25.4		mg/kg	2.45	0.237	2	06/19/24 20:03	06/20/24 00:20	EPA 3050B	1,6010D	JMF
Potassium, Total	700		mg/kg	245	14.1	2	06/19/24 20:03	06/20/24 00:20	EPA 3050B	1,6010D	JMF
Selenium, Total	0.256	J	mg/kg	1.96	0.253	2	06/19/24 20:03	06/20/24 00:20	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.490	0.277	2	06/19/24 20:03	06/20/24 00:20	EPA 3050B	1,6010D	JMF
Sodium, Total	90.8	J	mg/kg	196	3.09	2	06/19/24 20:03	06/20/24 00:20	EPA 3050B	1,6010D	JMF
Thallium, Total	0.317	J	mg/kg	1.96	0.309	2	06/19/24 20:03	06/20/24 00:20	EPA 3050B	1,6010D	JMF
Vanadium, Total	21.5		mg/kg	0.980	0.199	2	06/19/24 20:03	06/20/24 00:20	EPA 3050B	1,6010D	JMF
Zinc, Total	146		mg/kg	4.90	0.287	2	06/19/24 20:03	06/20/24 00:20	EPA 3050B	1,6010D	JMF
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	11.4		mg/kg	1.02	0.204	1		06/20/24 11:56	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 22-23,26-27,29 Batch: WG1936458-1										
Arsenic, TCLP	0.0196	J	mg/l	1.00	0.0190	1	06/19/24 22:30	06/20/24 09:02	1,6010D	JMF
Barium, TCLP	ND		mg/l	0.500	0.0210	1	06/19/24 22:30	06/20/24 09:02	1,6010D	JMF
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/19/24 22:30	06/20/24 09:02	1,6010D	JMF
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/19/24 22:30	06/20/24 09:02	1,6010D	JMF
Lead, TCLP	ND		mg/l	0.500	0.0270	1	06/19/24 22:30	06/20/24 09:02	1,6010D	JMF
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/19/24 22:30	06/20/24 09:02	1,6010D	JMF
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/19/24 22:30	06/20/24 09:02	1,6010D	JMF

### Prep Information

Digestion Method: EPA 3015  
TCLP/SPLP Extraction Date: 06/15/24 23:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 22-23,26-27,29 Batch: WG1936460-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/19/24 20:42	06/20/24 12:21	1,7470A	MJR

### Prep Information

Digestion Method: EPA 7470A  
TCLP/SPLP Extraction Date: 06/15/24 23:45

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 22-23,26-27,29 Batch: WG1936525-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	06/19/24 20:03	06/19/24 23:09	1,6010D	JMF
Antimony, Total	ND		mg/kg	2.00	0.152	1	06/19/24 20:03	06/19/24 23:09	1,6010D	JMF
Arsenic, Total	0.108	J	mg/kg	0.400	0.083	1	06/19/24 20:03	06/19/24 23:09	1,6010D	JMF
Barium, Total	ND		mg/kg	0.400	0.070	1	06/19/24 20:03	06/19/24 23:09	1,6010D	JMF
Beryllium, Total	ND		mg/kg	0.200	0.013	1	06/19/24 20:03	06/19/24 23:09	1,6010D	JMF
Cadmium, Total	ND		mg/kg	0.400	0.039	1	06/19/24 20:03	06/19/24 23:09	1,6010D	JMF
Calcium, Total	ND		mg/kg	4.00	1.40	1	06/19/24 20:03	06/19/24 23:09	1,6010D	JMF
Chromium, Total	ND		mg/kg	0.400	0.038	1	06/19/24 20:03	06/19/24 23:09	1,6010D	JMF
Cobalt, Total	ND		mg/kg	0.800	0.066	1	06/19/24 20:03	06/19/24 23:09	1,6010D	JMF



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

### Method Blank Analysis Batch Quality Control

Copper, Total	ND		mg/kg	0.400	0.103	1	06/19/24 20:03	06/19/24 23:09	1,6010D	JMF
Iron, Total	1.55	J	mg/kg	2.00	0.361	1	06/19/24 20:03	06/19/24 23:09	1,6010D	JMF
Lead, Total	ND		mg/kg	2.00	0.107	1	06/19/24 20:03	06/19/24 23:09	1,6010D	JMF
Magnesium, Total	ND		mg/kg	4.00	0.616	1	06/19/24 20:03	06/19/24 23:09	1,6010D	JMF
Manganese, Total	ND		mg/kg	0.400	0.064	1	06/19/24 20:03	06/19/24 23:09	1,6010D	JMF
Nickel, Total	ND		mg/kg	1.00	0.097	1	06/19/24 20:03	06/19/24 23:09	1,6010D	JMF
Potassium, Total	ND		mg/kg	100	5.76	1	06/19/24 20:03	06/19/24 23:09	1,6010D	JMF
Selenium, Total	ND		mg/kg	0.800	0.103	1	06/19/24 20:03	06/19/24 23:09	1,6010D	JMF
Silver, Total	ND		mg/kg	0.200	0.113	1	06/19/24 20:03	06/19/24 23:09	1,6010D	JMF
Sodium, Total	2.81	J	mg/kg	80.0	1.26	1	06/19/24 20:03	06/19/24 23:09	1,6010D	JMF
Thallium, Total	ND		mg/kg	0.800	0.126	1	06/19/24 20:03	06/19/24 23:09	1,6010D	JMF
Vanadium, Total	ND		mg/kg	0.400	0.081	1	06/19/24 20:03	06/19/24 23:09	1,6010D	JMF
Zinc, Total	ND		mg/kg	2.00	0.117	1	06/19/24 20:03	06/19/24 23:09	1,6010D	JMF

#### 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): 22-23,26-27,29 Batch: WG1936530-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	06/19/24 20:24	06/20/24 07:34	1,7471B	JWN

#### Prep Information

Digestion Method: EPA 7471B



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2433440

**Report Date:** 06/27/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 22-23,26-27,29 Batch: WG1936458-2								
Arsenic, TCLP	101		-		75-125	-		20
Barium, TCLP	97		-		75-125	-		20
Cadmium, TCLP	96		-		75-125	-		20
Chromium, TCLP	94		-		75-125	-		20
Lead, TCLP	102		-		75-125	-		20
Selenium, TCLP	97		-		75-125	-		20
Silver, TCLP	97		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 22-23,26-27,29 Batch: WG1936460-2								
Mercury, TCLP	97		-		80-120	-		

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2433440

**Report Date:** 06/27/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 22-23,26-27,29 Batch: WG1936525-2					
Aluminum, Total	105	-	80-120	-	
Antimony, Total	101	-	80-120	-	
Arsenic, Total	99	-	80-120	-	
Barium, Total	102	-	80-120	-	
Beryllium, Total	103	-	80-120	-	
Cadmium, Total	99	-	80-120	-	
Calcium, Total	99	-	80-120	-	
Chromium, Total	98	-	80-120	-	
Cobalt, Total	100	-	80-120	-	
Copper, Total	100	-	80-120	-	
Iron, Total	102	-	80-120	-	
Lead, Total	102	-	80-120	-	
Magnesium, Total	96	-	80-120	-	
Manganese, Total	99	-	80-120	-	
Nickel, Total	96	-	80-120	-	
Potassium, Total	103	-	80-120	-	
Selenium, Total	96	-	80-120	-	
Silver, Total	100	-	80-120	-	
Sodium, Total	102	-	80-120	-	
Thallium, Total	101	-	80-120	-	
Vanadium, Total	99	-	80-120	-	

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2433440

**Report Date:** 06/27/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 22-23,26-27,29 Batch: WG1936525-2					
Zinc, Total	96	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 22-23,26-27,29 Batch: WG1936530-2					
Mercury, Total	100	-	80-120	-	

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2433440

**Project Number:** 170562203

**Report Date:** 06/27/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 22-23,26-27,29 QC Batch ID: WG1936458-3 QC Sample: L2433235-01 Client ID: MS Sample												
Arsenic, TCLP	ND	1.2	1.36	113	-	-	-	-	75-125	-	-	20
Barium, TCLP	0.308J	20	20.0	100	-	-	-	-	75-125	-	-	20
Cadmium, TCLP	ND	0.53	0.501	94	-	-	-	-	75-125	-	-	20
Chromium, TCLP	0.0856J	2	1.94	97	-	-	-	-	75-125	-	-	20
Lead, TCLP	ND	5.3	5.49	104	-	-	-	-	75-125	-	-	20
Selenium, TCLP	ND	1.2	1.27	106	-	-	-	-	75-125	-	-	20
Silver, TCLP	ND	0.5	0.481	96	-	-	-	-	75-125	-	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 22-23,26-27,29 QC Batch ID: WG1936460-3 QC Sample: L2433235-01 Client ID: MS Sample												
Mercury, TCLP	ND	0.025	0.0256	102	-	-	-	-	75-125	-	-	20

### Matrix Spike Analysis Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

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): 22-23,26-27,29    QC Batch ID: WG1936525-3    QC Sample: L2432392-23    Client ID: MS Sample									
Aluminum, Total	16800	195	18200	717	Q	-	75-125	-	20
Antimony, Total	ND	48.8	37.7	77		-	75-125	-	20
Arsenic, Total	4.06	11.7	15.9	101		-	75-125	-	20
Barium, Total	114	195	294	92		-	75-125	-	20
Beryllium, Total	0.574	4.88	5.26	96		-	75-125	-	20
Cadmium, Total	ND	5.17	4.72	91		-	75-125	-	20
Calcium, Total	387	976	1280	91		-	75-125	-	20
Chromium, Total	20.1	19.5	39.9	101		-	75-125	-	20
Cobalt, Total	9.48	48.8	53.6	90		-	75-125	-	20
Copper, Total	31.6	24.4	60.3	118		-	75-125	-	20
Iron, Total	21200	97.6	22600	1430	Q	-	75-125	-	20
Lead, Total	9.95	51.7	59.5	96		-	75-125	-	20
Magnesium, Total	3860	976	4900	106		-	75-125	-	20
Manganese, Total	637	48.8	628	0	Q	-	75-125	-	20
Nickel, Total	17.3	48.8	60.1	88		-	75-125	-	20
Potassium, Total	1840	976	2380	55	Q	-	75-125	-	20
Selenium, Total	ND	11.7	10.6	90		-	75-125	-	20
Silver, Total	ND	4.88	4.53	93		-	75-125	-	20
Sodium, Total	31.4J	976	970	99		-	75-125	-	20
Thallium, Total	0.785J	11.7	11.4	97		-	75-125	-	20
Vanadium, Total	30.5	48.8	78.3	98		-	75-125	-	20

**Matrix Spike Analysis**  
Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

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): 22-23,26-27,29 QC Batch ID: WG1936525-3 QC Sample: L2432392-23 Client ID: MS Sample									
Zinc, Total	49.2	48.8	94.6	93	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 22-23,26-27,29 QC Batch ID: WG1936530-3 QC Sample: L2432392-23 Client ID: MS Sample									
Mercury, Total	ND	1.72	1.82	105	-	-	80-120	-	20

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2433440

Report Date: 06/27/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 22-23,26-27,29 QC Batch ID: WG1936458-4 QC Sample: L2433235-01 Client ID: DUP Sample						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Barium, TCLP	0.308J	0.316J	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	0.0856J	0.0863J	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 22-23,26-27,29 QC Batch ID: WG1936460-4 QC Sample: L2433235-01 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2433440

Report Date: 06/27/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 22-23,26-27,29 QC Batch ID: WG1936525-4 QC Sample: L2432392-23 Client ID: DUP Sample					
Aluminum, Total	16800	16800	mg/kg	0	20
Antimony, Total	ND	ND	mg/kg	NC	20
Arsenic, Total	4.06	4.25	mg/kg	5	20
Barium, Total	114	109	mg/kg	4	20
Beryllium, Total	0.574	0.602	mg/kg	5	20
Cadmium, Total	ND	ND	mg/kg	NC	20
Calcium, Total	387	365	mg/kg	6	20
Chromium, Total	20.1	20.3	mg/kg	1	20
Cobalt, Total	9.48	9.54	mg/kg	1	20
Copper, Total	31.6	33.0	mg/kg	4	20
Iron, Total	21200	21000	mg/kg	1	20
Lead, Total	9.95	11.1	mg/kg	11	20
Magnesium, Total	3860	3710	mg/kg	4	20
Manganese, Total	637	690	mg/kg	8	20
Nickel, Total	17.3	17.2	mg/kg	1	20
Potassium, Total	1840	1310	mg/kg	34	Q 20
Selenium, Total	ND	ND	mg/kg	NC	20
Silver, Total	ND	ND	mg/kg	NC	20
Sodium, Total	31.4J	31.2J	mg/kg	NC	20



## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2433440

Report Date: 06/27/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 22-23,26-27,29 QC Batch ID: WG1936525-4 QC Sample: L2432392-23 Client ID: DUP Sample					
Thallium, Total	0.785J	0.851J	mg/kg	NC	20
Vanadium, Total	30.5	30.6	mg/kg	0	20
Zinc, Total	49.2	48.7	mg/kg	1	20
Total Metals - Mansfield Lab Associated sample(s): 22-23,26-27,29 QC Batch ID: WG1936530-4 QC Sample: L2432392-23 Client ID: DUP Sample					
Mercury, Total	ND	0.074J	mg/kg	NC	20

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

**Lab Serial Dilution  
Analysis  
Batch Quality Control**

Lab Number: L2433440

Report Date: 06/27/24

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 22-23,26-27,29 QC Batch ID: WG1936525-6 QC Sample: L2432392-23 Client ID: DUP Sample						
Aluminum, Total	16800	17400	mg/kg	4		20
Barium, Total	114	119	mg/kg	4		20
Calcium, Total	387	405	mg/kg	5		20
Copper, Total	31.6	32.7	mg/kg	3		20
Iron, Total	21200	23100	mg/kg	9		20
Magnesium, Total	3860	4070	mg/kg	5		20
Manganese, Total	637	672	mg/kg	5		20
Vanadium, Total	30.5	31.1	mg/kg	2		20

# **INORGANICS & MISCELLANEOUS**

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

### SAMPLE RESULTS

**Lab ID:** L2433440-22  
**Client ID:** WC01\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/13/24 11:00  
**Date Received:** 06/13/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/19/24 20:48	1,1030	REM



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

### SAMPLE RESULTS

**Lab ID:** L2433440-23  
**Client ID:** DUP01\_COMP\_061324  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/13/24 00:00  
**Date Received:** 06/13/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/19/24 20:48	1,1030	REM



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

### SAMPLE RESULTS

**Lab ID:** L2433440-26  
**Client ID:** WC05\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/13/24 12:05  
**Date Received:** 06/13/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/19/24 20:48	1,1030	REM



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

### SAMPLE RESULTS

**Lab ID:** L2433440-27  
**Client ID:** WC10\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/13/24 13:20  
**Date Received:** 06/13/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/19/24 20:48	1,1030	REM



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

### SAMPLE RESULTS

**Lab ID:** L2433440-29  
**Client ID:** WC02\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/13/24 15:25  
**Date Received:** 06/13/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/19/24 20:48	1,1030	REM





**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433440**Project Number:** 170562203**Report Date:** 06/27/24**SAMPLE RESULTS**

Lab ID: L2433440-21

Date Collected: 06/13/24 09:53

Client ID: WC01D\_GRAB\_3-4

Date Received: 06/13/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	85.1		%	0.100	NA	1	-	06/14/24 12:00	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

**Lab ID:** L2433440-22  
**Client ID:** WC01\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/13/24 11:00  
**Date Received:** 06/13/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	89.2		%	0.100	NA	1	-	06/14/24 12:00	121,2540G	ROI
Cyanide, Total	0.27	J	mg/kg	1.1	0.23	1	06/18/24 20:00	06/19/24 14:48	1,9010C/9012B	JER
pH (H)	7.16		SU	-	NA	1	-	06/19/24 21:34	1,9045D	AAS
Chromium, Hexavalent	ND		mg/kg	0.897	0.179	1	06/20/24 07:45	06/20/24 11:56	1,7196A	LOF
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/19/24 18:48	06/19/24 20:00	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/19/24 18:48	06/19/24 20:13	125,7.3	JLB



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

**Lab ID:** L2433440-23  
**Client ID:** DUP01\_COMP\_061324  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/13/24 00:00  
**Date Received:** 06/13/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	84.6		%	0.100	NA	1	-	06/14/24 12:00	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.2	0.24	1	06/18/24 20:00	06/19/24 14:49	1,9010C/9012B	JER
pH (H)	7.48		SU	-	NA	1	-	06/19/24 21:34	1,9045D	AAS
Chromium, Hexavalent	ND		mg/kg	0.946	0.189	1	06/20/24 07:45	06/20/24 11:56	1,7196A	LOF
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/19/24 18:48	06/19/24 20:00	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/19/24 18:48	06/19/24 20:14	125,7.3	JLB



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433440-24

Date Collected: 06/13/24 00:00

Client ID: DUP01\_GRAB\_061324

Date Received: 06/13/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.3		%	0.100	NA	1	-	06/14/24 12:00	121,2540G	ROI



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433440-25

Date Collected: 06/13/24 12:00

Client ID: WC05A\_GRAB\_1-2

Date Received: 06/13/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.2		%	0.100	NA	1	-	06/14/24 12:00	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

**Lab ID:** L2433440-26  
**Client ID:** WC05\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/13/24 12:05  
**Date Received:** 06/13/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	87.1		%	0.100	NA	1	-	06/14/24 12:00	121,2540G	ROI
Cyanide, Total	0.27	J	mg/kg	1.0	0.22	1	06/19/24 11:25	06/19/24 16:07	1,9010C/9012B	JER
pH (H)	7.91		SU	-	NA	1	-	06/19/24 21:34	1,9045D	AAS
Chromium, Hexavalent	ND		mg/kg	0.918	0.184	1	06/20/24 07:45	06/20/24 11:56	1,7196A	LOF
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/19/24 18:48	06/19/24 20:00	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/19/24 18:48	06/19/24 20:14	125,7.3	JLB



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

**Lab ID:** L2433440-27  
**Client ID:** WC10\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/13/24 13:20  
**Date Received:** 06/13/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	87.4		%	0.100	NA	1	-	06/14/24 12:00	121,2540G	ROI
Cyanide, Total	0.77	J	mg/kg	1.1	0.23	1	06/19/24 11:25	06/19/24 16:08	1,9010C/9012B	JER
pH (H)	12.2		SU	-	NA	1	-	06/19/24 21:34	1,9045D	AAS
Chromium, Hexavalent	ND		mg/kg	0.915	0.183	1	06/20/24 07:45	06/20/24 11:56	1,7196A	LOF
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/19/24 18:48	06/19/24 20:00	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/19/24 18:48	06/19/24 20:14	125,7.3	JLB



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433440-28

Date Collected: 06/13/24 13:15

Client ID: WC10D\_GRAB\_2-3

Date Received: 06/13/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	78.4		%	0.100	NA	1	-	06/14/24 12:00	121,2540G	ROI





**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**SAMPLE RESULTS**

**Lab ID:** L2433440-29  
**Client ID:** WC02\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/13/24 15:25  
**Date Received:** 06/13/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	78.6		%	0.100	NA	1	-	06/14/24 12:00	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.3	0.27	1	06/19/24 11:25	06/19/24 16:09	1,9010C/9012B	JER
pH (H)	9.13		SU	-	NA	1	-	06/19/24 21:34	1,9045D	AAS
Chromium, Hexavalent	ND		mg/kg	1.02	0.204	1	06/20/24 07:45	06/20/24 11:56	1,7196A	LOF
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/19/24 18:48	06/19/24 20:01	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/19/24 18:48	06/19/24 20:14	125,7.3	JLB



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433440

Project Number: 170562203

Report Date: 06/27/24

## SAMPLE RESULTS

Lab ID: L2433440-30

Date Collected: 06/13/24 14:50

Client ID: WC02D\_GRAB\_3-4

Date Received: 06/13/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.9		%	0.100	NA	1	-	06/14/24 12:00	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Method Blank Analysis**  
**Batch Quality Control**

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 22-23 Batch: WG1936098-1									
Cyanide, Total	ND	mg/kg	0.86	0.18	1	06/18/24 20:00	06/19/24 14:32	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 26-27,29 Batch: WG1936393-1									
Cyanide, Total	ND	mg/kg	0.88	0.19	1	06/19/24 11:25	06/19/24 15:59	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 22-23,26-27,29 Batch: WG1936679-1									
Cyanide, Reactive	ND	mg/kg	10	10.	1	06/19/24 18:48	06/19/24 19:54	125,7.3	JLB
General Chemistry - Westborough Lab for sample(s): 22-23,26-27,29 Batch: WG1936685-1									
Sulfide, Reactive	ND	mg/kg	10	10.	1	06/19/24 18:48	06/19/24 20:07	125,7.3	JLB
General Chemistry - Westborough Lab for sample(s): 22-23,26-27,29 Batch: WG1936862-1									
Chromium, Hexavalent	ND	mg/kg	0.800	0.160	1	06/20/24 07:45	06/20/24 11:56	1,7196A	LOF

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2433440

**Report Date:** 06/27/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 22-23 Batch: WG1936098-2 WG1936098-3								
Cyanide, Total	94		99		80-120	1		35
General Chemistry - Westborough Lab Associated sample(s): 26-27,29 Batch: WG1936393-2 WG1936393-3								
Cyanide, Total	92		98		80-120	6		35
General Chemistry - Westborough Lab Associated sample(s): 22-23,26-27,29 Batch: WG1936679-2								
Cyanide, Reactive	118		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 22-23,26-27,29 Batch: WG1936685-2								
Sulfide, Reactive	115		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 22-23,26-27,29 Batch: WG1936724-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 22-23,26-27,29 Batch: WG1936862-2								
Chromium, Hexavalent	106		-		80-120	-		20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 22-23 QC Batch ID: WG1936098-4 WG1936098-5 QC Sample: L2432929-01 Client ID: MS Sample												
Cyanide, Total	ND	13	12	94		12	97		75-125	0		35
General Chemistry - Westborough Lab Associated sample(s): 26-27,29 QC Batch ID: WG1936393-4 WG1936393-5 QC Sample: L2433517-02 Client ID: MS Sample												
Cyanide, Total	ND	14	13	93		14	100		75-125	7		35
General Chemistry - Westborough Lab Associated sample(s): 22-23,26-27,29 QC Batch ID: WG1936862-4 QC Sample: L2433440-29 Client ID: WC02_COMP_0-4												
Chromium, Hexavalent	ND	1660	1500	90		-	-		75-125	-		20

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2433440

Report Date: 06/27/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 21-30 QC Batch ID: WG1934449-1 QC Sample: L2433440-21 Client ID: WC01D_GRAB_3-4						
Solids, Total	85.1	86.0	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 22-23,26-27,29 QC Batch ID: WG1936679-3 QC Sample: L2434053-03 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 22-23,26-27,29 QC Batch ID: WG1936685-3 QC Sample: L2434053-03 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 22-23,26-27,29 QC Batch ID: WG1936724-2 QC Sample: L2433796-01 Client ID: DUP Sample						
pH	8.18	8.17	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 22-23,26-27,29 QC Batch ID: WG1936862-6 QC Sample: L2433440-29 Client ID: WC02_COMP_0-4						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433440**Project Number:** 170562203**Report Date:** 06/27/24**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

<b>Cooler</b>	<b>Custody Seal</b>
A	Absent
B	Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2433440-01A	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2433440-01B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433440-02A	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2433440-02B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433440-03A	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2433440-03B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433440-04A	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2433440-04B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433440-05A	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2433440-05B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433440-06A	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2433440-06B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433440-07A	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2433440-07B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433440-08A	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2433440-08B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433440-09A	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2433440-09B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433440-10A	Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2433440-10B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433440-11A	Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		HOLD-METAL(180)
L2433440-11B	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Serial\_No:**06272410:36  
**Lab Number:** L2433440  
**Report Date:** 06/27/24

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2433440-12A	Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		HOLD-METAL(180)
L2433440-12B	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433440-13A	Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		HOLD-METAL(180)
L2433440-13B	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433440-14A	Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		HOLD-METAL(180)
L2433440-14B	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433440-15A	Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		HOLD-METAL(180)
L2433440-15B	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433440-16A	Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		HOLD-METAL(180)
L2433440-16B	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433440-17A	Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		HOLD-METAL(180)
L2433440-17B	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433440-18A	Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		HOLD-METAL(180)
L2433440-18B	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433440-19A	Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		HOLD-METAL(180)
L2433440-19B	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433440-20A	Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		HOLD-METAL(180)
L2433440-20B	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433440-21A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2433440-21B	Vial water preserved	A	NA		2.7	Y	Absent	14-JUN-24 11:26	NYTCL-8260HLW(14)
L2433440-21C	Vial water preserved	A	NA		2.7	Y	Absent	14-JUN-24 11:26	NYTCL-8260HLW(14)
L2433440-21D	Plastic 120ml unpreserved	A	NA		2.7	Y	Absent		TS(7)
L2433440-21E	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NJEPH-TPH-CAT1(14)
L2433440-22A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	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),ZN-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),CU-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)



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**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2433440-22B	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		IGNIT-1030(14),TCN-9010(14),REACTS(14),NYTCL-8270(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2433440-22C	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		IGNIT-1030(14),TCN-9010(14),REACTS(14),NYTCL-8270(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2433440-22D	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		IGNIT-1030(14),TCN-9010(14),REACTS(14),NYTCL-8270(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2433440-22X	Plastic 120ml HNO3 preserved Extracts	NA	NA			Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2433440-22X9	Tumble Vessel	A	NA		2.7	Y	Absent		-
L2433440-23A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2433440-23B	Glass 120ml/4oz unpreserved	B	NA		3.4	Y	Absent		NYTCL-8270(14),IGNIT-1030(14),TCN-9010(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2433440-23C	Glass 120ml/4oz unpreserved	B	NA		3.4	Y	Absent		NYTCL-8270(14),IGNIT-1030(14),TCN-9010(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2433440-23D	Glass 500ml/16oz unpreserved	B	NA		3.4	Y	Absent		NYTCL-8270(14),IGNIT-1030(14),TCN-9010(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2433440-23X	Plastic 120ml HNO3 preserved Extracts	NA	NA			Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2433440-23X9	Tumble Vessel	B	NA		3.4	Y	Absent		-
L2433440-24A	Vial MeOH preserved	B	NA		3.4	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2433440-24B	Vial water preserved	B	NA		3.4	Y	Absent	14-JUN-24 11:26	NYTCL-8260H(14),NYTCL-8260HLW(14)

\*Values in parentheses indicate holding time in days



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**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2433440-24C	Vial water preserved	B	NA		3.4	Y	Absent	14-JUN-24 11:26	NYTCL-8260H(14),NYTCL-8260HLW(14)
L2433440-24D	Plastic 120ml unpreserved	B	NA		3.4	Y	Absent		TS(7)
L2433440-24E	Glass 120ml/4oz unpreserved	B	NA		3.4	Y	Absent		NJEPH-TPH-CAT1(14)
L2433440-25A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2433440-25B	Vial water preserved	A	NA		2.7	Y	Absent	14-JUN-24 11:26	NYTCL-8260HLW(14)
L2433440-25C	Vial water preserved	A	NA		2.7	Y	Absent	14-JUN-24 11:26	NYTCL-8260HLW(14)
L2433440-25D	Plastic 120ml unpreserved	A	NA		2.7	Y	Absent		TS(7)
L2433440-25E	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NJEPH-TPH-CAT1(14)
L2433440-26A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	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),SB-TI(180),ZN-TI(180),SE-TI(180),CU-TI(180),CO-TI(180),V-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CD-TI(180),CA-TI(180),NA-TI(180),K-TI(180)
L2433440-26B	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),REACTS(14),IGNIT-1030(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2433440-26C	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),REACTS(14),IGNIT-1030(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2433440-26D	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		TCN-9010(14),NYTCL-8270(14),REACTS(14),IGNIT-1030(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2433440-26X	Plastic 120ml HNO3 preserved Extracts	NA	NA			Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2433440-26X9	Tumble Vessel	A	NA		2.7	Y	Absent		-
L2433440-27A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)

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**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2433440-27B	Glass 120ml/4oz unpreserved	B	NA		3.4	Y	Absent		REACTS(14),IGNIT-1030(14),NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2433440-27C	Glass 120ml/4oz unpreserved	B	NA		3.4	Y	Absent		REACTS(14),IGNIT-1030(14),NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2433440-27D	Glass 500ml/16oz unpreserved	B	NA		3.4	Y	Absent		REACTS(14),IGNIT-1030(14),NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2433440-27X	Plastic 120ml HNO3 preserved Extracts	NA	NA			Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2433440-27X9	Tumble Vessel	B	NA		3.4	Y	Absent		-
L2433440-28A	Vial MeOH preserved	B	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2433440-28B	Vial water preserved	B	NA		3.4	Y	Absent	14-JUN-24 11:26	NYTCL-8260HLW(14)
L2433440-28C	Vial water preserved	B	NA		3.4	Y	Absent	14-JUN-24 11:26	NYTCL-8260HLW(14)
L2433440-28D	Plastic 120ml unpreserved	B	NA		3.4	Y	Absent		TS(7)
L2433440-28E	Glass 120ml/4oz unpreserved	B	NA		3.4	Y	Absent		NJEPH-TPH-CAT1(14)
L2433440-29A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),CU-TI(180),V-TI(180),CO-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),K-TI(180),CD-TI(180),NA-TI(180),CA-TI(180)
L2433440-29B	Glass 120ml/4oz unpreserved	B	NA		3.4	Y	Absent		IGNIT-1030(14),TCN-9010(14),REACTS(14),NYTCL-8270(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2433440-29C	Glass 120ml/4oz unpreserved	B	NA		3.4	Y	Absent		IGNIT-1030(14),TCN-9010(14),REACTS(14),NYTCL-8270(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2433440-29D	Glass 500ml/16oz unpreserved	B	NA		3.4	Y	Absent		IGNIT-1030(14),TCN-9010(14),REACTS(14),NYTCL-8270(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)

\*Values in parentheses indicate holding time in days



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**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2433440-29X	Plastic 120ml HNO3 preserved Extracts	NA	NA			Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2433440-29X9	Tumble Vessel	B	NA		3.4	Y	Absent		-
L2433440-30A	Vial MeOH preserved	B	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2433440-30B	Vial water preserved	B	NA		3.4	Y	Absent	14-JUN-24 11:26	NYTCL-8260HLW(14)
L2433440-30C	Vial water preserved	B	NA		3.4	Y	Absent	14-JUN-24 11:26	NYTCL-8260HLW(14)
L2433440-30D	Plastic 120ml unpreserved	B	NA		3.4	Y	Absent		TS(7)
L2433440-30E	Glass 120ml/4oz unpreserved	B	NA		3.4	Y	Absent		NJEPH-TPH-CAT1(14)

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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



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### 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:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

#### 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:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433440  
**Report Date:** 06/27/24

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 103 Analysis of Extractable Petroleum Hydrocarbon Compounds (EPH) in Aqueous and Soil/Sediment/Sludge Matrices. New Jersey Department of Environmental Protection, Site Remediation Program, (Version 1.1), Document # NJDEP EPH 10/08, Revision 3, August 2010.
- 107 Alpha Analytical - In-house calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.





## Certification Information

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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, NO<sub>2</sub>, NO<sub>3</sub>.

### 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

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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**

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For a complete listing of analytes and methods, please contact your Alpha Project Manager.


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243340

 <p><b>NEW YORK CHAIN OF CUSTODY</b></p> <p>Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193</p> <p>Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288</p>	<p><u>Service Centers</u></p> <p>Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105</p>	<p>Page 1</p> <p>1 of 3</p>	<p>Date Rec'd in Lab</p> <p>6/14/24</p>	<p>ALPHA Job #</p>																																																																		
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<p>These samples have been previously analyzed by Alpha <input type="checkbox"/></p> <p><b>Other project specific requirements/comments:</b></p> <p>Copy lgrose@langan.com, and DataManagement@langan.com on laboratory results</p> <p>Please specify Metals or TAL.</p>	<p><b>ANALYSIS</b></p> <table border="1"> <tr> <th>Group A</th> <th>Group B</th> <th>Group C</th> <th>Group D</th> <th>GROUP E - HOLD</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>X</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>X</td> </tr> </table>	Group A	Group B	Group C	Group D	GROUP E - HOLD					X					X					X					X					X					X					X					X					X					X					X	<p><b>Sample Filtration</b></p> <p><input type="checkbox"/> Done</p> <p><input type="checkbox"/> Lab to do</p> <p><b>Preservation</b></p> <p><input type="checkbox"/> Lab to do</p> <p>(Please Specify below)</p> <p>Sample Specific Comments</p>								
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 <b>NEW YORK CHAIN OF CUSTODY</b> 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	<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 2 of 3	Date Rec'd in Lab 6/14/24	ALPHA Job #																																																																																																																											
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<b>Client Information</b> Client: Langan Address: 360 West 31st Street, 8th Floor New York, NY 10001 Phone: 212.479.5400 Fax: Email: npalumbo@langan.com		<b>Regulatory Requirement</b> <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		<b>Disposal Site Information</b> Please identify below location of applicable disposal facilities: Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																																																																																																																											
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<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">Group A</th> <th rowspan="2">Group B</th> <th rowspan="2">Group C</th> <th rowspan="2">Group D</th> <th rowspan="2">GROUP E - HOLD</th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr><td>33440-11</td><td>WC10A-0-1</td><td>6/13/2024</td><td>13:25</td><td>S</td><td>LC</td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr><td>-12</td><td>WC10B-1-2</td><td></td><td>13:30</td><td>S</td><td>LC</td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr><td>-13</td><td>WC10C-2-3</td><td></td><td>13:35</td><td>S</td><td>LC</td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr><td>-14</td><td>WC10D-3-4</td><td></td><td>13:40</td><td>S</td><td>LC</td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr><td>-15</td><td>WC10D-0-1</td><td></td><td>13:45</td><td>S</td><td>LC</td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr><td>-16</td><td>WC02A-3-4</td><td></td><td>14:55</td><td>S</td><td>LC</td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr><td>-17</td><td>WC02B-0-1</td><td></td><td>15:00</td><td>S</td><td>LC</td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr><td>-18</td><td>WC02C-1-2</td><td></td><td>15:05</td><td>S</td><td>LC</td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr><td>-19</td><td>WC02D-2-3</td><td></td><td>15:10</td><td>S</td><td>LC</td><td></td><td></td><td></td><td></td><td>X</td></tr> <tr><td>-20</td><td>WC02D-3-4</td><td></td><td>15:20</td><td>S</td><td>LC</td><td></td><td></td><td></td><td></td><td>X</td></tr> </tbody> </table>		ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Group A	Group B	Group C	Group D	GROUP E - HOLD	Date	Time	33440-11	WC10A-0-1	6/13/2024	13:25	S	LC					X	-12	WC10B-1-2		13:30	S	LC					X	-13	WC10C-2-3		13:35	S	LC					X	-14	WC10D-3-4		13:40	S	LC					X	-15	WC10D-0-1		13:45	S	LC					X	-16	WC02A-3-4		14:55	S	LC					X	-17	WC02B-0-1		15:00	S	LC					X	-18	WC02C-1-2		15:05	S	LC					X	-19	WC02D-2-3		15:10	S	LC					X	-20	WC02D-3-4		15:20	S	LC					X	Container Type Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S <a href="#">TERMS &amp; CONDITIONS</a> .
ALPHA Lab ID (Lab Use Only)	Sample ID			Collection									Sample Matrix	Sampler's Initials	Group A	Group B	Group C	Group D	GROUP E - HOLD																																																																																																												
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**RUN**

 <b>NEW YORK CHAIN OF CUSTODY</b>		<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105			Page 1 <b>3 of 3</b>		Date Rec'd in Lab <b>6/14/24</b>		ALPHA Job #									
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		<b>Project Information</b> Project Name: 145-165 Wolcott Street Project Location: 145-165 Wolcott Street Project #: 170562203 (Use Project name as Project #) <input type="checkbox"/>				<b>Deliverables</b> <input checked="" type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUiS (1 File) <input type="checkbox"/> EQUiS (4 File) <input type="checkbox"/> Other		<b>Billing Information</b> <input checked="" type="checkbox"/> Same as Client Info PO #								
<b>Client Information</b> Client: Langan Address: 360 West 31st Street, 8th Floor New York, NY 10001 Phone: 212.479.5400 Fax: Email: npalumbo@langan.com				<b>Project Manager:</b> Nicholas Palumbo <b>ALPHAQuote #:</b> <b>Turn-Around Time</b> Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		<b>Regulatory Requirement</b> <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		<b>Disposal Site Information</b> Please identify below location of applicable disposal facilities: Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:										
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ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix	Sampler's Initials	Group A	Group B	Group C	Group D	Group E	Group F	Group G	Group H	Group I	Group J	Sample Specific Comments
33440-21		WCO1D-GRAB-3-4		6/13/2024 9:53		S	LC		X									
-22		WCO1-COMP-0-4		11:00		S	LC	X	X									
-23		DUPO1-COMP-061324				S	LC	X	X									
-24		DUPO1-GRAB-061324				S	LC		X	X								
-25		WCO5A-GRAB-1-2		12:00		S	LC		X	X								
-26		WCO5-COMP-0-4		12:05		S	LC	X	X									
-27		WCO10-COMP-0-4		13:20		S	LC	X	X									
-28		WCO10D-GRAB-2-3		13:15		S	LC		X									
-29		WCO2-COMP-0-4		15:25		S	LC	X	X									
-30		WCO2D-GRAB-3-4		19:50		S	LC		X									
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type		Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S <u>TERMS &amp; CONDITIONS.</u>								
Relinquished By: Lisa Cristiano/Langan				Date/Time: 6/13/24 15:40		Received By: [Signature]				Date/Time: 6/13/24 16:40								
[Signature]				Date/Time: 6/13/24 19:30		[Signature]				Date/Time: 6/13/24 19:15								
[Signature]				Date/Time: 6/14/24 1:30		[Signature]				Date/Time: 6/13/24 2200								
[Signature]				Date/Time: 6/14/24 0150		[Signature]				Date/Time: 6/14/24 0150								

**145-165 Wolcott Street  
Langan Project No.: 170562203**

**Sample Analysis Reference Sheet**

**Group A**

Part 375/TCL/NJDEP/PADEP SVOCs  
Pesticides  
Herbicides  
PCBs  
Part 375/TAL Metals  
Hexavalent Chromium  
Trivalent Chromium  
Total Cyanide  
TCLP Metals  
RCRA Characteristics

**Group B**

Part 375/TCL VOCs, NJDEP EPH

**Group C**

Part 375/TCL/NJDEP/PADEP SVOCs  
Pesticides  
Herbicides  
PCBs  
Part 375/TAL Metals  
Hexavalent Chromium  
Trivalent Chromium  
Total Cyanide  
TCLP Metals  
RCRA Characteristics  
Full TCLP (Minus VOCs)  
Paint Filter

**Group D**

Part 375/TCL VOCs, TCLP VOCs, NJDEP EPH

**Group E - HOLD**

Total and TCLP Metals



## ANALYTICAL REPORT

Lab Number:	L2433793
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Nicholas Palumbo
Phone:	(212) 479-5435
Project Name:	145-165 WOLCOTT STREET
Project Number:	170562203
Report Date:	06/28/24

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).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2433793-01	WC03_COMP_0-4	SOIL	145-165 WOLCOTT STREET	06/14/24 09:10	06/14/24
L2433793-02	WC08_COMP_0-4	SOIL	145-165 WOLCOTT STREET	06/14/24 13:50	06/14/24
L2433793-03	WC16_COMP_4-9	SOIL	145-165 WOLCOTT STREET	06/14/24 12:30	06/14/24
L2433793-04	WC03B_GRAB_2-3	SOIL	145-165 WOLCOTT STREET	06/14/24 09:05	06/14/24
L2433793-05	WC03C_GRAB_7-8	SOIL	145-165 WOLCOTT STREET	06/14/24 12:15	06/14/24
L2433793-06	WC08B_GRAB_6-7	SOIL	145-165 WOLCOTT STREET	06/14/24 12:45	06/14/24
L2433793-07	WC20_COMP_4-9	SOIL	145-165 WOLCOTT STREET	06/14/24 13:10	06/14/24
L2433793-08	WC08C_GRAB_2-3	SOIL	145-165 WOLCOTT STREET	06/14/24 13:35	06/14/24
L2433793-09	WC03B_2-3	SOIL	145-165 WOLCOTT STREET	06/14/24 08:45	06/14/24
L2433793-10	WC03A_1-2	SOIL	145-165 WOLCOTT STREET	06/14/24 08:40	06/14/24
L2433793-11	WC03C_3-4	SOIL	145-165 WOLCOTT STREET	06/14/24 08:50	06/14/24
L2433793-12	WC03D_2-3	SOIL	145-165 WOLCOTT STREET	06/14/24 08:55	06/14/24
L2433793-13	WC03C_0-1	SOIL	145-165 WOLCOTT STREET	06/14/24 09:00	06/14/24
L2433793-14	WC08A_1-2	SOIL	145-165 WOLCOTT STREET	06/14/24 13:40	06/14/24
L2433793-15	WC08B_3-4	SOIL	145-165 WOLCOTT STREET	06/14/24 13:42	06/14/24
L2433793-16	WC08C_2-3	SOIL	145-165 WOLCOTT STREET	06/14/24 13:44	06/14/24
L2433793-17	WC08D_0-1	SOIL	145-165 WOLCOTT STREET	06/14/24 13:46	06/14/24
L2433793-18	WC08C_3-4	SOIL	145-165 WOLCOTT STREET	06/14/24 13:48	06/14/24
L2433793-19	WC03B_5-6	SOIL	145-165 WOLCOTT STREET	06/14/24 12:20	06/14/24
L2433793-20	WC03B_6-7	SOIL	145-165 WOLCOTT STREET	06/14/24 12:22	06/14/24
L2433793-21	WC03C_4-5	SOIL	145-165 WOLCOTT STREET	06/14/24 12:24	06/14/24
L2433793-22	WC03C_8-9	SOIL	145-165 WOLCOTT STREET	06/14/24 12:26	06/14/24
L2433793-23	WC03C_7-8	SOIL	145-165 WOLCOTT STREET	06/14/24 12:28	06/14/24
L2433793-24	WC08A_7-8	SOIL	145-165 WOLCOTT STREET	06/14/24 13:00	06/14/24

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2433793-25	WC08A_4-5	SOIL	145-165 WOLCOTT STREET	06/14/24 13:02	06/14/24
L2433793-26	WC08B_5-6	SOIL	145-165 WOLCOTT STREET	06/14/24 13:04	06/14/24
L2433793-27	WC08B_6-7	SOIL	145-165 WOLCOTT STREET	06/14/24 13:06	06/14/24
L2433793-28	WC08A_8-9	SOIL	145-165 WOLCOTT STREET	06/14/24 13:08	06/14/24



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

### 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:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

### Case Narrative (continued)

#### Report Submission

June 28, 2024: This final report includes the results of all requested analyses.

June 24, 2024: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Volatile Organics

L2433793-04: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

L2433793-04: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (138%); 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.

L2433793-06: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (164%); 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.

L2433793-08: The surrogate recoveries are outside the acceptance criteria for toluene-d8 (161%) and 4-bromofluorobenzene (337%); 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.

#### Semivolatile Organics

L2433793-01D, -02D, and -07D: The sample has elevated detection limits due to the dilution required by the sample matrix.

L2433793-02D and -03D: The surrogate recoveries are below the acceptance criteria for 2-fluorophenol (0%), phenol-d6 (0%), nitrobenzene-d5 (0%), 2-fluorobiphenyl (0%), 2,4,6-tribromophenol (0%), and 4-terphenyl-d14 (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

### Case Narrative (continued)

L2433793-03D: The sample has elevated detection limits due to the dilution required by the matrix interferences encountered during the concentration of the sample and the analytical dilution required by the sample matrix.

#### NJ EPH (Total)

L2433793-04D, -05, and -08D: The surrogate recoveries are below the acceptance criteria for chlorooctadecane (0%) and o-terphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

WG1937344: An MS/MSD was not analyzed because the dilution required by the native sample would have caused the spike compounds to be diluted below the range of calibration.

#### Total Metals

L2433793-01, -02, -03, and -07: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

#### Hexavalent Chromium

The WG1936924-4 Insoluble MS recovery for chromium, hexavalent (47%), performed on L2433793-07, is below the acceptance criteria. The Soluble MS recovery for chromium, hexavalent (12%) was also below criteria. This has been attributed to matrix interference. A post-spike was performed with an acceptable recovery of 106%.

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

Title: Technical Director/Representative

Date: 06/28/24

# ORGANICS

# VOLATILES

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-04  
 Client ID: WC03B\_GRAB\_2-3  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 09:05  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/20/24 16:22  
 Analyst: LAC  
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	300	140	1
1,1-Dichloroethane	ND		ug/kg	59	8.6	1
Chloroform	ND		ug/kg	88	8.3	1
Carbon tetrachloride	ND		ug/kg	59	14.	1
1,2-Dichloropropane	ND		ug/kg	59	7.4	1
Dibromochloromethane	ND		ug/kg	59	8.3	1
1,1,2-Trichloroethane	ND		ug/kg	59	16.	1
Tetrachloroethene	ND		ug/kg	30	12.	1
Chlorobenzene	ND		ug/kg	30	7.5	1
Trichlorofluoromethane	ND		ug/kg	240	41.	1
1,2-Dichloroethane	ND		ug/kg	59	15.	1
1,1,1-Trichloroethane	ND		ug/kg	30	9.9	1
Bromodichloromethane	ND		ug/kg	30	6.4	1
trans-1,3-Dichloropropene	ND		ug/kg	59	16.	1
cis-1,3-Dichloropropene	ND		ug/kg	30	9.3	1
1,3-Dichloropropene, Total	ND		ug/kg	30	9.3	1
1,1-Dichloropropene	ND		ug/kg	30	9.4	1
Bromoform	ND		ug/kg	240	14.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	30	9.8	1
Benzene	ND		ug/kg	30	9.8	1
Toluene	ND		ug/kg	59	32.	1
Ethylbenzene	14	J	ug/kg	59	8.3	1
Chloromethane	ND		ug/kg	240	55.	1
Bromomethane	ND		ug/kg	120	34.	1
Vinyl chloride	ND		ug/kg	59	20.	1
Chloroethane	ND		ug/kg	120	27.	1
1,1-Dichloroethene	ND		ug/kg	59	14.	1
trans-1,2-Dichloroethene	ND		ug/kg	88	8.1	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433793**Project Number:** 170562203**Report Date:** 06/28/24**SAMPLE RESULTS**

Lab ID: L2433793-04  
 Client ID: WC03B\_GRAB\_2-3  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 09:05  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatiles Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	30	8.1	1
1,2-Dichlorobenzene	ND		ug/kg	120	8.5	1
1,3-Dichlorobenzene	ND		ug/kg	120	8.7	1
1,4-Dichlorobenzene	17	J	ug/kg	120	10.	1
Methyl tert butyl ether	ND		ug/kg	120	12.	1
p/m-Xylene	59	J	ug/kg	120	33.	1
o-Xylene	17	J	ug/kg	59	17.	1
Xylenes, Total	76	J	ug/kg	59	17.	1
cis-1,2-Dichloroethene	ND		ug/kg	59	10.	1
Dibromomethane	ND		ug/kg	120	14.	1
Styrene	ND		ug/kg	59	12.	1
Dichlorodifluoromethane	ND		ug/kg	590	54.	1
Acetone	300	J	ug/kg	590	280	1
Carbon disulfide	ND		ug/kg	590	270	1
2-Butanone	ND		ug/kg	590	130	1
Vinyl acetate	ND		ug/kg	590	130	1
4-Methyl-2-pentanone	ND		ug/kg	590	76.	1
1,2,3-Trichloropropane	ND		ug/kg	120	7.5	1
2-Hexanone	ND		ug/kg	590	70.	1
Bromochloromethane	ND		ug/kg	120	12.	1
2,2-Dichloropropane	ND		ug/kg	120	12.	1
1,2-Dibromoethane	ND		ug/kg	59	16.	1
1,3-Dichloropropane	ND		ug/kg	120	9.9	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	30	7.8	1
Bromobenzene	ND		ug/kg	120	8.6	1
n-Butylbenzene	250		ug/kg	59	9.9	1
sec-Butylbenzene	84		ug/kg	59	8.6	1
tert-Butylbenzene	12	J	ug/kg	120	7.0	1
o-Chlorotoluene	ND		ug/kg	120	11.	1
p-Chlorotoluene	ND		ug/kg	120	6.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	180	59.	1
Hexachlorobutadiene	ND		ug/kg	240	10.	1
Isopropylbenzene	70		ug/kg	59	6.4	1
p-Isopropyltoluene	8.3	J	ug/kg	59	6.4	1
Naphthalene	120	J	ug/kg	240	38.	1
Acrylonitrile	ND		ug/kg	240	68.	1
Tert-Butyl Alcohol	ND		ug/kg	1200	300	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-04  
 Client ID: WC03B\_GRAB\_2-3  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 09:05  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
n-Propylbenzene	89		ug/kg	59	10.	1
1,2,3-Trichlorobenzene	ND		ug/kg	120	19.	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	16.	1
1,3,5-Trimethylbenzene	ND		ug/kg	120	11.	1
1,2,4-Trimethylbenzene	26	J	ug/kg	120	20.	1
Methyl Acetate	350		ug/kg	240	56.	1
Acrolein	ND		ug/kg	1500	330	1
Cyclohexane	99	J	ug/kg	590	32.	1
1,4-Dioxane	ND		ug/kg	4700	2100	1
Freon-113	ND		ug/kg	240	41.	1
p-Diethylbenzene	21	J	ug/kg	120	10.	1
p-Ethyltoluene	41	J	ug/kg	120	23.	1
1,2,4,5-Tetramethylbenzene	360		ug/kg	120	11.	1
Ethyl ether	ND		ug/kg	120	20.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	300	84.	1
Methyl cyclohexane	910		ug/kg	240	36.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	<b>138</b>	Q	70-130
Dibromofluoromethane	90		70-130



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2433793-05  
**Client ID:** WC03C\_GRAB\_7-8  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/14/24 12:15  
**Date Received:** 06/14/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8260D  
**Analytical Date:** 06/21/24 02:25  
**Analyst:** JIC  
**Percent Solids:** 58%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	520	J	ug/kg	920	420	1
1,1-Dichloroethane	ND		ug/kg	180	26.	1
Chloroform	ND		ug/kg	270	26.	1
Carbon tetrachloride	ND		ug/kg	180	42.	1
1,2-Dichloropropane	ND		ug/kg	180	23.	1
Dibromochloromethane	ND		ug/kg	180	26.	1
1,1,2-Trichloroethane	ND		ug/kg	180	49.	1
Tetrachloroethene	ND		ug/kg	92	36.	1
Chlorobenzene	ND		ug/kg	92	23.	1
Trichlorofluoromethane	ND		ug/kg	730	130	1
1,2-Dichloroethane	ND		ug/kg	180	47.	1
1,1,1-Trichloroethane	ND		ug/kg	92	31.	1
Bromodichloromethane	ND		ug/kg	92	20.	1
trans-1,3-Dichloropropene	ND		ug/kg	180	50.	1
cis-1,3-Dichloropropene	ND		ug/kg	92	29.	1
1,3-Dichloropropene, Total	ND		ug/kg	92	29.	1
1,1-Dichloropropene	ND		ug/kg	92	29.	1
Bromoform	ND		ug/kg	730	45.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	92	30.	1
Benzene	3700		ug/kg	92	30.	1
Toluene	36000		ug/kg	180	100	1
Ethylbenzene	18000		ug/kg	180	26.	1
Chloromethane	ND		ug/kg	730	170	1
Bromomethane	ND		ug/kg	370	110	1
Vinyl chloride	ND		ug/kg	180	61.	1
Chloroethane	ND		ug/kg	370	83.	1
1,1-Dichloroethene	ND		ug/kg	180	44.	1
trans-1,2-Dichloroethene	ND		ug/kg	270	25.	1

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

## SAMPLE RESULTS

Lab ID: L2433793-05  
 Client ID: WC03C\_GRAB\_7-8  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 12:15  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	92	25.	1
1,2-Dichlorobenzene	ND		ug/kg	370	26.	1
1,3-Dichlorobenzene	ND		ug/kg	370	27.	1
1,4-Dichlorobenzene	ND		ug/kg	370	31.	1
Methyl tert butyl ether	ND		ug/kg	370	37.	1
p/m-Xylene	50000		ug/kg	370	100	1
o-Xylene	21000		ug/kg	180	53.	1
Xylenes, Total	71000		ug/kg	180	53.	1
cis-1,2-Dichloroethene	ND		ug/kg	180	32.	1
Dibromomethane	ND		ug/kg	370	44.	1
Styrene	ND		ug/kg	180	36.	1
Dichlorodifluoromethane	ND		ug/kg	1800	170	1
Acetone	980	J	ug/kg	1800	880	1
Carbon disulfide	ND		ug/kg	1800	830	1
2-Butanone	ND		ug/kg	1800	410	1
Vinyl acetate	ND		ug/kg	1800	390	1
4-Methyl-2-pentanone	ND		ug/kg	1800	230	1
1,2,3-Trichloropropane	ND		ug/kg	370	23.	1
2-Hexanone	ND		ug/kg	1800	220	1
Bromochloromethane	ND		ug/kg	370	38.	1
2,2-Dichloropropane	ND		ug/kg	370	37.	1
1,2-Dibromoethane	ND		ug/kg	180	51.	1
1,3-Dichloropropane	ND		ug/kg	370	31.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	92	24.	1
Bromobenzene	ND		ug/kg	370	26.	1
n-Butylbenzene	3400		ug/kg	180	31.	1
sec-Butylbenzene	580		ug/kg	180	27.	1
tert-Butylbenzene	ND		ug/kg	370	22.	1
o-Chlorotoluene	ND		ug/kg	370	35.	1
p-Chlorotoluene	ND		ug/kg	370	20.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	550	180	1
Hexachlorobutadiene	ND		ug/kg	730	31.	1
Isopropylbenzene	2200		ug/kg	180	20.	1
p-Isopropyltoluene	1000		ug/kg	180	20.	1
Naphthalene	23000		ug/kg	730	120	1
Acrylonitrile	ND		ug/kg	730	210	1
Tert-Butyl Alcohol	ND		ug/kg	3700	940	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2433793-05  
**Client ID:** WC03C\_GRAB\_7-8  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/14/24 12:15  
**Date Received:** 06/14/24  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
n-Propylbenzene	5600		ug/kg	180	31.	1
1,2,3-Trichlorobenzene	ND		ug/kg	370	59.	1
1,2,4-Trichlorobenzene	ND		ug/kg	370	50.	1
1,3,5-Trimethylbenzene	20000		ug/kg	370	35.	1
1,2,4-Trimethylbenzene	27000		ug/kg	370	61.	1
Methyl Acetate	17000		ug/kg	730	170	1
Acrolein	ND		ug/kg	4600	1000	1
Cyclohexane	4600		ug/kg	1800	100	1
1,4-Dioxane	ND		ug/kg	15000	6400	1
Freon-113	ND		ug/kg	730	130	1
p-Diethylbenzene	28000		ug/kg	370	32.	1
p-Ethyltoluene	42000		ug/kg	370	70.	1
1,2,4,5-Tetramethylbenzene	3800		ug/kg	370	35.	1
Ethyl ether	ND		ug/kg	370	62.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	920	260	1
Methyl cyclohexane	28000		ug/kg	730	110	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-06  
 Client ID: WC08B\_GRAB\_6-7  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 12:45  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/20/24 15:37  
 Analyst: LAC  
 Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	5.6	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	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.5	0.78	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Bromodichloromethane	ND		ug/kg	0.56	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.31	1
cis-1,3-Dichloropropene	ND		ug/kg	0.56	0.18	1
1,3-Dichloropropene, Total	ND		ug/kg	0.56	0.18	1
1,1-Dichloropropene	ND		ug/kg	0.56	0.18	1
Bromoform	ND		ug/kg	4.5	0.28	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.56	0.19	1
Benzene	0.37	J	ug/kg	0.56	0.19	1
Toluene	0.76	J	ug/kg	1.1	0.61	1
Ethylbenzene	0.42	J	ug/kg	1.1	0.16	1
Chloromethane	ND		ug/kg	4.5	1.0	1
Bromomethane	ND		ug/kg	2.2	0.65	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
Chloroethane	ND		ug/kg	2.2	0.51	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433793**Project Number:** 170562203**Report Date:** 06/28/24**SAMPLE RESULTS**

Lab ID: L2433793-06  
 Client ID: WC08B\_GRAB\_6-7  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 12:45  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	0.18	J	ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	0.67	J	ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	3.4		ug/kg	2.2	0.63	1
o-Xylene	2.3		ug/kg	1.1	0.33	1
Xylenes, Total	5.7		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
Dibromomethane	ND		ug/kg	2.2	0.27	1
Styrene	ND		ug/kg	1.1	0.22	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	110		ug/kg	11	5.4	1
Carbon disulfide	ND		ug/kg	11	5.1	1
2-Butanone	37		ug/kg	11	2.5	1
Vinyl acetate	ND		ug/kg	11	2.4	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.23	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.23	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.31	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.19	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.56	0.15	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	6.0		ug/kg	1.1	0.19	1
sec-Butylbenzene	3.8		ug/kg	1.1	0.16	1
tert-Butylbenzene	0.52	J	ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.4	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.5	0.19	1
Isopropylbenzene	5.3		ug/kg	1.1	0.12	1
p-Isopropyltoluene	0.60	J	ug/kg	1.1	0.12	1
Naphthalene	4.2	J	ug/kg	4.5	0.73	1
Acrylonitrile	ND		ug/kg	4.5	1.3	1
Tert-Butyl Alcohol	ND		ug/kg	22	5.8	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-06  
 Client ID: WC08B\_GRAB\_6-7  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 12:45  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	7.6		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.36	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	8.4		ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	16		ug/kg	2.2	0.37	1
Methyl Acetate	ND		ug/kg	4.5	1.1	1
Acrolein	ND		ug/kg	28	6.3	1
Cyclohexane	24		ug/kg	11	0.61	1
1,4-Dioxane	ND		ug/kg	90	39.	1
Freon-113	ND		ug/kg	4.5	0.78	1
p-Diethylbenzene	12		ug/kg	2.2	0.20	1
p-Ethyltoluene	4.1		ug/kg	2.2	0.43	1
1,2,4,5-Tetramethylbenzene	20		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.38	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.6	1.6	1
Methyl cyclohexane	110		ug/kg	4.5	0.68	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	114		70-130
4-Bromofluorobenzene	<b>164</b>	Q	70-130
Dibromofluoromethane	97		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-08  
 Client ID: WC08C\_GRAB\_2-3  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 13:35  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/20/24 16:00  
 Analyst: LAC  
 Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	7.4	3.4	1
1,1-Dichloroethane	ND		ug/kg	1.5	0.22	1
Chloroform	ND		ug/kg	2.2	0.21	1
Carbon tetrachloride	ND		ug/kg	1.5	0.34	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	0.74	0.29	1
Chlorobenzene	ND		ug/kg	0.74	0.19	1
Trichlorofluoromethane	ND		ug/kg	6.0	1.0	1
1,2-Dichloroethane	ND		ug/kg	1.5	0.38	1
1,1,1-Trichloroethane	ND		ug/kg	0.74	0.25	1
Bromodichloromethane	ND		ug/kg	0.74	0.16	1
trans-1,3-Dichloropropene	ND		ug/kg	1.5	0.41	1
cis-1,3-Dichloropropene	ND		ug/kg	0.74	0.24	1
1,3-Dichloropropene, Total	ND		ug/kg	0.74	0.24	1
1,1-Dichloropropene	ND		ug/kg	0.74	0.24	1
Bromoform	ND		ug/kg	6.0	0.37	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.74	0.25	1
Benzene	1.4		ug/kg	0.74	0.25	1
Toluene	1.7		ug/kg	1.5	0.81	1
Ethylbenzene	2.1		ug/kg	1.5	0.21	1
Chloromethane	ND		ug/kg	6.0	1.4	1
Bromomethane	ND		ug/kg	3.0	0.87	1
Vinyl chloride	67		ug/kg	1.5	0.50	1
Chloroethane	ND		ug/kg	3.0	0.67	1
1,1-Dichloroethene	ND		ug/kg	1.5	0.35	1
trans-1,2-Dichloroethene	5.0		ug/kg	2.2	0.20	1

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

## SAMPLE RESULTS

Lab ID: L2433793-08  
 Client ID: WC08C\_GRAB\_2-3  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 13:35  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	33		ug/kg	0.74	0.20	1
1,2-Dichlorobenzene	ND		ug/kg	3.0	0.21	1
1,3-Dichlorobenzene	0.30	J	ug/kg	3.0	0.22	1
1,4-Dichlorobenzene	1.2	J	ug/kg	3.0	0.25	1
Methyl tert butyl ether	ND		ug/kg	3.0	0.30	1
p/m-Xylene	2.9	J	ug/kg	3.0	0.84	1
o-Xylene	1.2	J	ug/kg	1.5	0.43	1
Xylenes, Total	4.1	J	ug/kg	1.5	0.43	1
cis-1,2-Dichloroethene	20		ug/kg	1.5	0.26	1
Dibromomethane	ND		ug/kg	3.0	0.35	1
Styrene	ND		ug/kg	1.5	0.29	1
Dichlorodifluoromethane	ND		ug/kg	15	1.4	1
Acetone	130		ug/kg	15	7.2	1
Carbon disulfide	11	J	ug/kg	15	6.8	1
2-Butanone	ND		ug/kg	15	3.3	1
Vinyl acetate	ND		ug/kg	15	3.2	1
4-Methyl-2-pentanone	ND		ug/kg	15	1.9	1
1,2,3-Trichloropropane	ND		ug/kg	3.0	0.19	1
2-Hexanone	ND		ug/kg	15	1.8	1
Bromochloromethane	ND		ug/kg	3.0	0.30	1
2,2-Dichloropropane	ND		ug/kg	3.0	0.30	1
1,2-Dibromoethane	ND		ug/kg	1.5	0.42	1
1,3-Dichloropropane	ND		ug/kg	3.0	0.25	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.74	0.20	1
Bromobenzene	ND		ug/kg	3.0	0.22	1
n-Butylbenzene	7.3		ug/kg	1.5	0.25	1
sec-Butylbenzene	8.2		ug/kg	1.5	0.22	1
tert-Butylbenzene	1.7	J	ug/kg	3.0	0.18	1
o-Chlorotoluene	ND		ug/kg	3.0	0.28	1
p-Chlorotoluene	ND		ug/kg	3.0	0.16	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	4.5	1.5	1
Hexachlorobutadiene	ND		ug/kg	6.0	0.25	1
Isopropylbenzene	5.7		ug/kg	1.5	0.16	1
p-Isopropyltoluene	2.0		ug/kg	1.5	0.16	1
Naphthalene	5.5	J	ug/kg	6.0	0.97	1
Acrylonitrile	ND		ug/kg	6.0	1.7	1
Tert-Butyl Alcohol	10	J	ug/kg	30	7.7	1



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-08  
 Client ID: WC08C\_GRAB\_2-3  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 13:35  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	5.9		ug/kg	1.5	0.25	1
1,2,3-Trichlorobenzene	ND		ug/kg	3.0	0.48	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.0	0.40	1
1,3,5-Trimethylbenzene	2.6	J	ug/kg	3.0	0.29	1
1,2,4-Trimethylbenzene	3.8		ug/kg	3.0	0.50	1
Methyl Acetate	ND		ug/kg	6.0	1.4	1
Acrolein	ND		ug/kg	37	8.4	1
Cyclohexane	180		ug/kg	15	0.81	1
1,4-Dioxane	ND		ug/kg	120	52.	1
Freon-113	ND		ug/kg	6.0	1.0	1
p-Diethylbenzene	8.6		ug/kg	3.0	0.26	1
p-Ethyltoluene	4.5		ug/kg	3.0	0.57	1
1,2,4,5-Tetramethylbenzene	6.4		ug/kg	3.0	0.28	1
Ethyl ether	ND		ug/kg	3.0	0.51	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	7.4	2.1	1
Methyl cyclohexane	390		ug/kg	6.0	0.90	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	96		70-130
Toluene-d8	161	Q	70-130
4-Bromofluorobenzene	337	Q	70-130
Dibromofluoromethane	89		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/20/24 08:05  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04 Batch: WG1937140-5					
Methylene chloride	210	J	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
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
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	ND		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

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/20/24 08:05  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04 Batch: WG1937140-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
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.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Dibromomethane	ND		ug/kg	100	12.
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
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6
p-Chlorotoluene	ND		ug/kg	100	5.4

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/20/24 08:05  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04 Batch: WG1937140-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
Tert-Butyl Alcohol	ND		ug/kg	1000	260
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
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.
Acrolein	ND		ug/kg	1200	280
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.
Methyl cyclohexane	ND		ug/kg	200	30.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/20/24 08:05  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 04 Batch: WG1937140-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	105		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/20/24 08:05  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 06,08 Batch: WG1937146-5					
Methylene chloride	4.2	J	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
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-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

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/20/24 08:05  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 06,08 Batch: WG1937146-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
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
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Dibromomethane	ND		ug/kg	2.0	0.24
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
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
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
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/20/24 08:05  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 06,08 Batch: WG1937146-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
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
Acrylonitrile	ND		ug/kg	4.0	1.2
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
Acrolein	ND		ug/kg	25	5.6
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Methyl cyclohexane	ND		ug/kg	4.0	0.60



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/20/24 08:05  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 06,08 Batch: WG1937146-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	105		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/20/24 19:23  
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05 Batch: WG1937568-5					
Methylene chloride	150	J	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
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
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	ND		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

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/20/24 19:23  
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05 Batch: WG1937568-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	12	J	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.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Dibromomethane	ND		ug/kg	100	12.
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
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6
p-Chlorotoluene	ND		ug/kg	100	5.4

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/20/24 19:23  
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05 Batch: WG1937568-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
Tert-Butyl Alcohol	ND		ug/kg	1000	260
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
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.
Acrolein	ND		ug/kg	1200	280
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.
Methyl cyclohexane	ND		ug/kg	200	30.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/20/24 19:23  
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 05 Batch: WG1937568-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	93		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04 Batch: WG1937140-3 WG1937140-4								
Methylene chloride	87		84		70-130	4		30
1,1-Dichloroethane	86		77		70-130	11		30
Chloroform	97		88		70-130	10		30
Carbon tetrachloride	92		82		70-130	11		30
1,2-Dichloropropane	99		94		70-130	5		30
Dibromochloromethane	84		83		70-130	1		30
1,1,2-Trichloroethane	91		90		70-130	1		30
Tetrachloroethene	96		84		70-130	13		30
Chlorobenzene	93		85		70-130	9		30
Trichlorofluoromethane	103		87		70-139	17		30
1,2-Dichloroethane	102		98		70-130	4		30
1,1,1-Trichloroethane	95		85		70-130	11		30
Bromodichloromethane	89		84		70-130	6		30
trans-1,3-Dichloropropene	91		87		70-130	4		30
cis-1,3-Dichloropropene	92		87		70-130	6		30
1,1-Dichloropropene	92		81		70-130	13		30
Bromoform	77		77		70-130	0		30
1,1,2,2-Tetrachloroethane	82		80		70-130	2		30
Benzene	95		87		70-130	9		30
Toluene	92		82		70-130	11		30
Ethylbenzene	92		83		70-130	10		30
Chloromethane	141	Q	121		52-130	15		30
Bromomethane	109		94		57-147	15		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04 Batch: WG1937140-3 WG1937140-4								
Vinyl chloride	102		85		67-130	18		30
Chloroethane	95		80		50-151	17		30
1,1-Dichloroethene	83		72		65-135	14		30
trans-1,2-Dichloroethene	83		72		70-130	14		30
Trichloroethene	95		86		70-130	10		30
1,2-Dichlorobenzene	92		86		70-130	7		30
1,3-Dichlorobenzene	93		86		70-130	8		30
1,4-Dichlorobenzene	93		85		70-130	9		30
Methyl tert butyl ether	80		80		66-130	0		30
p/m-Xylene	95		85		70-130	11		30
o-Xylene	92		84		70-130	9		30
cis-1,2-Dichloroethene	87		77		70-130	12		30
Dibromomethane	90		90		70-130	0		30
Styrene	92		85		70-130	8		30
Dichlorodifluoromethane	120		102		30-146	16		30
Acetone	94		99		54-140	5		30
Carbon disulfide	90		77		59-130	16		30
2-Butanone	92		101		70-130	9		30
Vinyl acetate	92		81		70-130	13		30
4-Methyl-2-pentanone	79		85		70-130	7		30
1,2,3-Trichloropropane	88		88		68-130	0		30
2-Hexanone	78		86		70-130	10		30
Bromochloromethane	91		86		70-130	6		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04 Batch: WG1937140-3 WG1937140-4								
2,2-Dichloropropane	96		85		70-130	12		30
1,2-Dibromoethane	89		87		70-130	2		30
1,3-Dichloropropane	93		90		69-130	3		30
1,1,1,2-Tetrachloroethane	89		82		70-130	8		30
Bromobenzene	89		84		70-130	6		30
n-Butylbenzene	96		84		70-130	13		30
sec-Butylbenzene	93		82		70-130	13		30
tert-Butylbenzene	89		79		70-130	12		30
o-Chlorotoluene	92		99		70-130	7		30
p-Chlorotoluene	95		85		70-130	11		30
1,2-Dibromo-3-chloropropane	73		74		68-130	1		30
Hexachlorobutadiene	94		82		67-130	14		30
Isopropylbenzene	92		82		70-130	11		30
p-Isopropyltoluene	92		81		70-130	13		30
Naphthalene	78		77		70-130	1		30
Acrylonitrile	93		96		70-130	3		30
Tert-Butyl Alcohol	74		84		70-130	13		30
n-Propylbenzene	95		84		70-130	12		30
1,2,3-Trichlorobenzene	90		84		70-130	7		30
1,2,4-Trichlorobenzene	90		83		70-130	8		30
1,3,5-Trimethylbenzene	94		83		70-130	12		30
1,2,4-Trimethylbenzene	93		84		70-130	10		30
Methyl Acetate	94		100		51-146	6		30



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 04 Batch: WG1937140-3 WG1937140-4								
Acrolein	98		99		70-130	1		30
Cyclohexane	100		86		59-142	15		30
1,4-Dioxane	85		93		65-136	9		30
Freon-113	92		79		50-139	15		30
p-Diethylbenzene	92		81		70-130	13		30
p-Ethyltoluene	94		83		70-130	12		30
1,2,4,5-Tetramethylbenzene	88		80		70-130	10		30
Ethyl ether	81		75		67-130	8		30
trans-1,4-Dichloro-2-butene	90		92		70-130	2		30
Methyl cyclohexane	86		75		70-130	14		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		113		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	103		105		70-130



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 06,08 Batch: WG1937146-3 WG1937146-4								
Methylene chloride	87		84		70-130	4		30
1,1-Dichloroethane	86		77		70-130	11		30
Chloroform	97		88		70-130	10		30
Carbon tetrachloride	92		82		70-130	11		30
1,2-Dichloropropane	99		94		70-130	5		30
Dibromochloromethane	84		83		70-130	1		30
1,1,2-Trichloroethane	91		90		70-130	1		30
Tetrachloroethene	96		84		70-130	13		30
Chlorobenzene	93		85		70-130	9		30
Trichlorofluoromethane	103		87		70-139	17		30
1,2-Dichloroethane	102		98		70-130	4		30
1,1,1-Trichloroethane	95		85		70-130	11		30
Bromodichloromethane	89		84		70-130	6		30
trans-1,3-Dichloropropene	91		87		70-130	4		30
cis-1,3-Dichloropropene	92		87		70-130	6		30
1,1-Dichloropropene	92		81		70-130	13		30
Bromoform	77		77		70-130	0		30
1,1,2,2-Tetrachloroethane	82		80		70-130	2		30
Benzene	95		87		70-130	9		30
Toluene	92		82		70-130	11		30
Ethylbenzene	92		83		70-130	10		30
Chloromethane	141	Q	121		52-130	15		30
Bromomethane	109		94		57-147	15		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 06,08 Batch: WG1937146-3 WG1937146-4								
Vinyl chloride	102		85		67-130	18		30
Chloroethane	95		80		50-151	17		30
1,1-Dichloroethene	83		72		65-135	14		30
trans-1,2-Dichloroethene	83		72		70-130	14		30
Trichloroethene	95		86		70-130	10		30
1,2-Dichlorobenzene	92		86		70-130	7		30
1,3-Dichlorobenzene	93		86		70-130	8		30
1,4-Dichlorobenzene	93		85		70-130	9		30
Methyl tert butyl ether	80		80		66-130	0		30
p/m-Xylene	95		85		70-130	11		30
o-Xylene	92		84		70-130	9		30
cis-1,2-Dichloroethene	87		77		70-130	12		30
Dibromomethane	90		90		70-130	0		30
Styrene	92		85		70-130	8		30
Dichlorodifluoromethane	120		102		30-146	16		30
Acetone	94		99		54-140	5		30
Carbon disulfide	90		77		59-130	16		30
2-Butanone	92		101		70-130	9		30
Vinyl acetate	92		81		70-130	13		30
4-Methyl-2-pentanone	79		85		70-130	7		30
1,2,3-Trichloropropane	88		88		68-130	0		30
2-Hexanone	78		86		70-130	10		30
Bromochloromethane	91		86		70-130	6		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 06,08 Batch: WG1937146-3 WG1937146-4								
2,2-Dichloropropane	96		85		70-130	12		30
1,2-Dibromoethane	89		87		70-130	2		30
1,3-Dichloropropane	93		90		69-130	3		30
1,1,1,2-Tetrachloroethane	89		82		70-130	8		30
Bromobenzene	89		84		70-130	6		30
n-Butylbenzene	96		84		70-130	13		30
sec-Butylbenzene	93		82		70-130	13		30
tert-Butylbenzene	89		79		70-130	12		30
o-Chlorotoluene	92		99		70-130	7		30
p-Chlorotoluene	95		85		70-130	11		30
1,2-Dibromo-3-chloropropane	73		74		68-130	1		30
Hexachlorobutadiene	94		82		67-130	14		30
Isopropylbenzene	92		82		70-130	11		30
p-Isopropyltoluene	92		81		70-130	13		30
Naphthalene	78		77		70-130	1		30
Acrylonitrile	93		96		70-130	3		30
Tert-Butyl Alcohol	74		84		70-130	13		30
n-Propylbenzene	95		84		70-130	12		30
1,2,3-Trichlorobenzene	90		84		70-130	7		30
1,2,4-Trichlorobenzene	90		83		70-130	8		30
1,3,5-Trimethylbenzene	94		83		70-130	12		30
1,2,4-Trimethylbenzene	93		84		70-130	10		30
Methyl Acetate	94		100		51-146	6		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2433793

Report Date: 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 06,08 Batch: WG1937146-3 WG1937146-4								
Acrolein	98		99		70-130	1		30
Cyclohexane	100		86		59-142	15		30
1,4-Dioxane	85		93		65-136	9		30
Freon-113	92		79		50-139	15		30
p-Diethylbenzene	92		81		70-130	13		30
p-Ethyltoluene	94		83		70-130	12		30
1,2,4,5-Tetramethylbenzene	88		80		70-130	10		30
Ethyl ether	81		75		67-130	8		30
trans-1,4-Dichloro-2-butene	90		92		70-130	2		30
Methyl cyclohexane	86		75		70-130	14		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		113		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	103		105		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

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: WG1937568-3 WG1937568-4								
Methylene chloride	92		94		70-130	2		30
1,1-Dichloroethane	99		98		70-130	1		30
Chloroform	109		107		70-130	2		30
Carbon tetrachloride	110		110		70-130	0		30
1,2-Dichloropropane	114		113		70-130	1		30
Dibromochloromethane	96		94		70-130	2		30
1,1,2-Trichloroethane	105		102		70-130	3		30
Tetrachloroethene	115		110		70-130	4		30
Chlorobenzene	106		104		70-130	2		30
Trichlorofluoromethane	118		117		70-139	1		30
1,2-Dichloroethane	110		109		70-130	1		30
1,1,1-Trichloroethane	111		110		70-130	1		30
Bromodichloromethane	101		100		70-130	1		30
trans-1,3-Dichloropropene	104		101		70-130	3		30
cis-1,3-Dichloropropene	106		105		70-130	1		30
1,1-Dichloropropene	116		115		70-130	1		30
Bromoform	93		90		70-130	3		30
1,1,2,2-Tetrachloroethane	101		95		70-130	6		30
Benzene	111		110		70-130	1		30
Toluene	108		105		70-130	3		30
Ethylbenzene	109		106		70-130	3		30
Chloromethane	138	Q	138	Q	52-130	0		30
Bromomethane	115		115		57-147	0		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

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: WG1937568-3 WG1937568-4								
Vinyl chloride	119		117		67-130	2		30
Chloroethane	106		102		50-151	4		30
1,1-Dichloroethene	101		99		65-135	2		30
trans-1,2-Dichloroethene	100		100		70-130	0		30
Trichloroethene	113		112		70-130	1		30
1,2-Dichlorobenzene	106		102		70-130	4		30
1,3-Dichlorobenzene	108		104		70-130	4		30
1,4-Dichlorobenzene	107		103		70-130	4		30
Methyl tert butyl ether	95		94		66-130	1		30
p/m-Xylene	109		107		70-130	2		30
o-Xylene	107		104		70-130	3		30
cis-1,2-Dichloroethene	102		100		70-130	2		30
Dibromomethane	102		100		70-130	2		30
Styrene	105		102		70-130	3		30
Dichlorodifluoromethane	143		142		30-146	1		30
Acetone	112		114		54-140	2		30
Carbon disulfide	106		106		59-130	0		30
2-Butanone	117		120		70-130	3		30
Vinyl acetate	91		83		70-130	9		30
4-Methyl-2-pentanone	106		102		70-130	4		30
1,2,3-Trichloropropane	106		101		68-130	5		30
2-Hexanone	104		100		70-130	4		30
Bromochloromethane	101		100		70-130	1		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2433793

**Project Number:** 170562203

**Report Date:** 06/28/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 05 Batch: WG1937568-3 WG1937568-4								
2,2-Dichloropropane	113		110		70-130	3		30
1,2-Dibromoethane	103		99		70-130	4		30
1,3-Dichloropropane	107		105		69-130	2		30
1,1,1,2-Tetrachloroethane	101		98		70-130	3		30
Bromobenzene	105		100		70-130	5		30
n-Butylbenzene	117		114		70-130	3		30
sec-Butylbenzene	116		110		70-130	5		30
tert-Butylbenzene	112		106		70-130	6		30
o-Chlorotoluene	111		106		70-130	5		30
p-Chlorotoluene	110		106		70-130	4		30
1,2-Dibromo-3-chloropropane	91		90		68-130	1		30
Hexachlorobutadiene	116		110		67-130	5		30
Isopropylbenzene	113		108		70-130	5		30
p-Isopropyltoluene	113		108		70-130	5		30
Naphthalene	97		93		70-130	4		30
Acrylonitrile	105		104		70-130	1		30
Tert-Butyl Alcohol	96		98		70-130	2		30
n-Propylbenzene	116		111		70-130	4		30
1,2,3-Trichlorobenzene	103		101		70-130	2		30
1,2,4-Trichlorobenzene	105		102		70-130	3		30
1,3,5-Trimethylbenzene	112		109		70-130	3		30
1,2,4-Trimethylbenzene	111		106		70-130	5		30
Methyl Acetate	108		106		51-146	2		30



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

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: WG1937568-3 WG1937568-4								
Acrolein	111		111		70-130	0		30
Cyclohexane	131		128		59-142	2		30
1,4-Dioxane	116		113		65-136	3		30
Freon-113	114		112		50-139	2		30
p-Diethylbenzene	113		110		70-130	3		30
p-Ethyltoluene	114		110		70-130	4		30
1,2,4,5-Tetramethylbenzene	106		103		70-130	3		30
Ethyl ether	91		91		67-130	0		30
trans-1,4-Dichloro-2-butene	105		99		70-130	6		30
Methyl cyclohexane	117		113		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		109		70-130
Toluene-d8	101		101		70-130
4-Bromofluorobenzene	100		99		70-130
Dibromofluoromethane	98		99		70-130



# SEMIVOLATILES

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-01 D  
 Client ID: WC03\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 09:10  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/24/24 16:45  
 Analyst: SZ  
 Percent Solids: 89%

Extraction Method: EPA 3546  
 Extraction Date: 06/21/24 06:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	210	J	ug/kg	730	94.	5
Benzidine	ND		ug/kg	3000	990	5
1,2,4-Trichlorobenzene	ND		ug/kg	910	100	5
Hexachlorobenzene	ND		ug/kg	550	100	5
Bis(2-chloroethyl)ether	ND		ug/kg	820	120	5
2-Chloronaphthalene	ND		ug/kg	910	90.	5
1,2-Dichlorobenzene	ND		ug/kg	910	160	5
1,3-Dichlorobenzene	ND		ug/kg	910	160	5
1,4-Dichlorobenzene	ND		ug/kg	910	160	5
3,3'-Dichlorobenzidine	ND		ug/kg	910	240	5
2,4-Dinitrotoluene	ND		ug/kg	910	180	5
2,6-Dinitrotoluene	ND		ug/kg	910	160	5
Azobenzene	ND		ug/kg	910	88.	5
Fluoranthene	1800		ug/kg	550	100	5
4-Chlorophenyl phenyl ether	ND		ug/kg	910	98.	5
4-Bromophenyl phenyl ether	ND		ug/kg	910	140	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	160	5
Bis(2-chloroethoxy)methane	ND		ug/kg	980	91.	5
Hexachlorobutadiene	ND		ug/kg	910	130	5
Hexachlorocyclopentadiene	ND		ug/kg	2600	820	5
Hexachloroethane	ND		ug/kg	730	150	5
Isophorone	ND		ug/kg	820	120	5
Naphthalene	260	J	ug/kg	910	110	5
Nitrobenzene	ND		ug/kg	820	130	5
NDPA/DPA	ND		ug/kg	730	100	5
n-Nitrosodi-n-propylamine	ND		ug/kg	910	140	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	910	320	5
Butyl benzyl phthalate	ND		ug/kg	910	230	5

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

## SAMPLE RESULTS

Lab ID: L2433793-01 D  
 Client ID: WC03\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 09:10  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	910	170	5
Di-n-octylphthalate	ND		ug/kg	910	310	5
Diethyl phthalate	ND		ug/kg	910	84.	5
Dimethyl phthalate	ND		ug/kg	910	190	5
Benzo(a)anthracene	4600		ug/kg	550	100	5
Benzo(a)pyrene	6800		ug/kg	730	220	5
Benzo(b)fluoranthene	4600		ug/kg	550	150	5
Benzo(k)fluoranthene	740		ug/kg	550	140	5
Chrysene	4800		ug/kg	550	95.	5
Acenaphthylene	ND		ug/kg	730	140	5
Anthracene	710		ug/kg	550	180	5
Benzo(ghi)perylene	12000		ug/kg	730	110	5
Fluorene	290	J	ug/kg	910	89.	5
Phenanthrene	1300		ug/kg	550	110	5
Dibenzo(a,h)anthracene	5500		ug/kg	550	100	5
Indeno(1,2,3-cd)pyrene	4100		ug/kg	730	130	5
Pyrene	4000		ug/kg	550	91.	5
Biphenyl	ND		ug/kg	2100	120	5
4-Chloroaniline	ND		ug/kg	910	160	5
2-Nitroaniline	ND		ug/kg	910	180	5
3-Nitroaniline	ND		ug/kg	910	170	5
4-Nitroaniline	ND		ug/kg	910	380	5
Dibenzofuran	150	J	ug/kg	910	86.	5
2-Methylnaphthalene	320	J	ug/kg	1100	110	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	910	95.	5
Acetophenone	ND		ug/kg	910	110	5
n-Nitrosodimethylamine	ND		ug/kg	1800	180	5
2,4,6-Trichlorophenol	ND		ug/kg	550	170	5
p-Chloro-m-cresol	ND		ug/kg	910	140	5
2-Chlorophenol	ND		ug/kg	910	110	5
2,4-Dichlorophenol	ND		ug/kg	820	150	5
2,4-Dimethylphenol	ND		ug/kg	910	300	5
2-Nitrophenol	ND		ug/kg	2000	340	5
4-Nitrophenol	ND		ug/kg	1300	370	5
2,4-Dinitrophenol	ND		ug/kg	4400	420	5
4,6-Dinitro-o-cresol	ND		ug/kg	2400	440	5
Pentachlorophenol	ND		ug/kg	730	200	5

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-01 D  
 Client ID: WC03\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 09:10  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	ND		ug/kg	910	140	5
2-Methylphenol	ND		ug/kg	910	140	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1300	140	5
2,4,5-Trichlorophenol	ND		ug/kg	910	170	5
Benzoic Acid	ND		ug/kg	3000	920	5
Benzyl Alcohol	ND		ug/kg	910	280	5
Carbazole	ND		ug/kg	910	89.	5
Atrazine	ND		ug/kg	730	320	5
Benzaldehyde	ND		ug/kg	1200	250	5
Caprolactam	ND		ug/kg	910	280	5
2,3,4,6-Tetrachlorophenol	ND		ug/kg	910	180	5
1,4-Dioxane	ND		ug/kg	140	42.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		25-120
Phenol-d6	49		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	50		30-120
2,4,6-Tribromophenol	55		10-136
4-Terphenyl-d14	54		18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-02 D  
 Client ID: WC08\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 13:50  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/24/24 13:34  
 Analyst: LJG  
 Percent Solids: 85%

Extraction Method: EPA 3546  
 Extraction Date: 06/21/24 06:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	3500		ug/kg	3000	390	20
Benzidine	ND		ug/kg	12000	4100	20
1,2,4-Trichlorobenzene	ND		ug/kg	3800	430	20
Hexachlorobenzene	ND		ug/kg	2300	420	20
Bis(2-chloroethyl)ether	ND		ug/kg	3400	510	20
2-Chloronaphthalene	ND		ug/kg	3800	380	20
1,2-Dichlorobenzene	ND		ug/kg	3800	680	20
1,3-Dichlorobenzene	ND		ug/kg	3800	650	20
1,4-Dichlorobenzene	ND		ug/kg	3800	660	20
3,3'-Dichlorobenzidine	ND		ug/kg	3800	1000	20
2,4-Dinitrotoluene	ND		ug/kg	3800	760	20
2,6-Dinitrotoluene	ND		ug/kg	3800	650	20
Azobenzene	ND		ug/kg	3800	360	20
Fluoranthene	32000		ug/kg	2300	430	20
4-Chlorophenyl phenyl ether	ND		ug/kg	3800	400	20
4-Bromophenyl phenyl ether	ND		ug/kg	3800	580	20
Bis(2-chloroisopropyl)ether	ND		ug/kg	4500	650	20
Bis(2-chloroethoxy)methane	ND		ug/kg	4100	380	20
Hexachlorobutadiene	ND		ug/kg	3800	550	20
Hexachlorocyclopentadiene	ND		ug/kg	11000	3400	20
Hexachloroethane	ND		ug/kg	3000	610	20
Isophorone	ND		ug/kg	3400	490	20
Naphthalene	3400	J	ug/kg	3800	460	20
Nitrobenzene	ND		ug/kg	3400	560	20
NDPA/DPA	ND		ug/kg	3000	430	20
n-Nitrosodi-n-propylamine	ND		ug/kg	3800	580	20
Bis(2-ethylhexyl)phthalate	ND		ug/kg	3800	1300	20
Butyl benzyl phthalate	ND		ug/kg	3800	950	20

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433793**Project Number:** 170562203**Report Date:** 06/28/24**SAMPLE RESULTS**

Lab ID: L2433793-02 D  
 Client ID: WC08\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 13:50  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Di-n-butylphthalate	ND		ug/kg	3800	720	20
Di-n-octylphthalate	ND		ug/kg	3800	1300	20
Diethyl phthalate	ND		ug/kg	3800	350	20
Dimethyl phthalate	ND		ug/kg	3800	800	20
Benzo(a)anthracene	13000		ug/kg	2300	430	20
Benzo(a)pyrene	13000		ug/kg	3000	920	20
Benzo(b)fluoranthene	13000		ug/kg	2300	640	20
Benzo(k)fluoranthene	3800		ug/kg	2300	610	20
Chrysene	13000		ug/kg	2300	390	20
Acenaphthylene	ND		ug/kg	3000	580	20
Anthracene	7200		ug/kg	2300	740	20
Benzo(ghi)perylene	9800		ug/kg	3000	440	20
Fluorene	3400	J	ug/kg	3800	370	20
Phenanthrene	33000		ug/kg	2300	460	20
Dibenzo(a,h)anthracene	2800		ug/kg	2300	440	20
Indeno(1,2,3-cd)pyrene	7200		ug/kg	3000	530	20
Pyrene	28000		ug/kg	2300	380	20
Biphenyl	ND		ug/kg	8600	490	20
4-Chloroaniline	ND		ug/kg	3800	690	20
2-Nitroaniline	ND		ug/kg	3800	730	20
3-Nitroaniline	ND		ug/kg	3800	710	20
4-Nitroaniline	ND		ug/kg	3800	1600	20
Dibenzofuran	2600	J	ug/kg	3800	360	20
2-Methylnaphthalene	2000	J	ug/kg	4500	460	20
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	3800	400	20
Acetophenone	ND		ug/kg	3800	470	20
n-Nitrosodimethylamine	ND		ug/kg	7600	730	20
2,4,6-Trichlorophenol	ND		ug/kg	2300	720	20
p-Chloro-m-cresol	ND		ug/kg	3800	560	20
2-Chlorophenol	ND		ug/kg	3800	450	20
2,4-Dichlorophenol	ND		ug/kg	3400	610	20
2,4-Dimethylphenol	ND		ug/kg	3800	1200	20
2-Nitrophenol	ND		ug/kg	8200	1400	20
4-Nitrophenol	ND		ug/kg	5300	1500	20
2,4-Dinitrophenol	ND		ug/kg	18000	1800	20
4,6-Dinitro-o-cresol	ND		ug/kg	9800	1800	20
Pentachlorophenol	ND		ug/kg	3000	830	20

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-02 D  
 Client ID: WC08\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 13:50  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	ND		ug/kg	3800	570	20
2-Methylphenol	ND		ug/kg	3800	590	20
3-Methylphenol/4-Methylphenol	ND		ug/kg	5400	590	20
2,4,5-Trichlorophenol	ND		ug/kg	3800	720	20
Benzoic Acid	ND		ug/kg	12000	3800	20
Benzyl Alcohol	ND		ug/kg	3800	1200	20
Carbazole	3400	J	ug/kg	3800	370	20
Atrazine	ND		ug/kg	3000	1300	20
Benzaldehyde	ND		ug/kg	5000	1000	20
Caprolactam	ND		ug/kg	3800	1200	20
2,3,4,6-Tetrachlorophenol	ND		ug/kg	3800	760	20
1,4-Dioxane	ND		ug/kg	570	170	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	0	Q	25-120
Phenol-d6	0	Q	10-120
Nitrobenzene-d5	0	Q	23-120
2-Fluorobiphenyl	0	Q	30-120
2,4,6-Tribromophenol	0	Q	10-136
4-Terphenyl-d14	0	Q	18-120



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-03 D  
 Client ID: WC16\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 12:30  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/24/24 13:58  
 Analyst: LJG  
 Percent Solids: 72%

Extraction Method: EPA 3546  
 Extraction Date: 06/21/24 06:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	980	J	ug/kg	5500	710	30
Benzidine	ND		ug/kg	23000	7400	30
1,2,4-Trichlorobenzene	ND		ug/kg	6900	790	30
Hexachlorobenzene	ND		ug/kg	4100	770	30
Bis(2-chloroethyl)ether	ND		ug/kg	6200	930	30
2-Chloronaphthalene	ND		ug/kg	6900	680	30
1,2-Dichlorobenzene	ND		ug/kg	6900	1200	30
1,3-Dichlorobenzene	ND		ug/kg	6900	1200	30
1,4-Dichlorobenzene	ND		ug/kg	6900	1200	30
3,3'-Dichlorobenzidine	ND		ug/kg	6900	1800	30
2,4-Dinitrotoluene	ND		ug/kg	6900	1400	30
2,6-Dinitrotoluene	ND		ug/kg	6900	1200	30
Azobenzene	ND		ug/kg	6900	660	30
Fluoranthene	14000		ug/kg	4100	790	30
4-Chlorophenyl phenyl ether	ND		ug/kg	6900	740	30
4-Bromophenyl phenyl ether	ND		ug/kg	6900	1000	30
Bis(2-chloroisopropyl)ether	ND		ug/kg	8200	1200	30
Bis(2-chloroethoxy)methane	ND		ug/kg	7400	690	30
Hexachlorobutadiene	ND		ug/kg	6900	1000	30
Hexachlorocyclopentadiene	ND		ug/kg	20000	6200	30
Hexachloroethane	ND		ug/kg	5500	1100	30
Isophorone	ND		ug/kg	6200	890	30
Naphthalene	7600		ug/kg	6900	840	30
Nitrobenzene	ND		ug/kg	6200	1000	30
NDPA/DPA	2200	J	ug/kg	5500	780	30
n-Nitrosodi-n-propylamine	ND		ug/kg	6900	1100	30
Bis(2-ethylhexyl)phthalate	ND		ug/kg	6900	2400	30
Butyl benzyl phthalate	ND		ug/kg	6900	1700	30

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

## SAMPLE RESULTS

Lab ID: L2433793-03 D  
 Client ID: WC16\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 12:30  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	6900	1300	30
Di-n-octylphthalate	ND		ug/kg	6900	2300	30
Diethyl phthalate	ND		ug/kg	6900	640	30
Dimethyl phthalate	ND		ug/kg	6900	1400	30
Benzo(a)anthracene	100000		ug/kg	4100	770	30
Benzo(a)pyrene	92000		ug/kg	5500	1700	30
Benzo(b)fluoranthene	71000		ug/kg	4100	1200	30
Benzo(k)fluoranthene	5800		ug/kg	4100	1100	30
Chrysene	160000		ug/kg	4100	720	30
Acenaphthylene	ND		ug/kg	5500	1100	30
Anthracene	6000		ug/kg	4100	1300	30
Benzo(ghi)perylene	68000		ug/kg	5500	810	30
Fluorene	2200	J	ug/kg	6900	670	30
Phenanthrene	31000		ug/kg	4100	840	30
Dibenzo(a,h)anthracene	38000		ug/kg	4100	800	30
Indeno(1,2,3-cd)pyrene	9700		ug/kg	5500	960	30
Pyrene	53000		ug/kg	4100	680	30
Biphenyl	ND		ug/kg	16000	890	30
4-Chloroaniline	ND		ug/kg	6900	1200	30
2-Nitroaniline	ND		ug/kg	6900	1300	30
3-Nitroaniline	ND		ug/kg	6900	1300	30
4-Nitroaniline	ND		ug/kg	6900	2800	30
Dibenzofuran	ND		ug/kg	6900	650	30
2-Methylnaphthalene	18000		ug/kg	8200	830	30
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	6900	720	30
Acetophenone	ND		ug/kg	6900	850	30
n-Nitrosodimethylamine	ND		ug/kg	14000	1300	30
2,4,6-Trichlorophenol	ND		ug/kg	4100	1300	30
p-Chloro-m-cresol	ND		ug/kg	6900	1000	30
2-Chlorophenol	ND		ug/kg	6900	810	30
2,4-Dichlorophenol	ND		ug/kg	6200	1100	30
2,4-Dimethylphenol	ND		ug/kg	6900	2300	30
2-Nitrophenol	ND		ug/kg	15000	2600	30
4-Nitrophenol	ND		ug/kg	9600	2800	30
2,4-Dinitrophenol	ND		ug/kg	33000	3200	30
4,6-Dinitro-o-cresol	ND		ug/kg	18000	3300	30
Pentachlorophenol	ND		ug/kg	5500	1500	30

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433793**Project Number:** 170562203**Report Date:** 06/28/24**SAMPLE RESULTS**

Lab ID: L2433793-03 D  
 Client ID: WC16\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 12:30  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	ND		ug/kg	6900	1000	30
2-Methylphenol	ND		ug/kg	6900	1100	30
3-Methylphenol/4-Methylphenol	ND		ug/kg	9900	1100	30
2,4,5-Trichlorophenol	ND		ug/kg	6900	1300	30
Benzoic Acid	ND		ug/kg	22000	7000	30
Benzyl Alcohol	ND		ug/kg	6900	2100	30
Carbazole	ND		ug/kg	6900	670	30
Atrazine	ND		ug/kg	5500	2400	30
Benzaldehyde	ND		ug/kg	9100	1800	30
Caprolactam	ND		ug/kg	6900	2100	30
2,3,4,6-Tetrachlorophenol	ND		ug/kg	6900	1400	30
1,4-Dioxane	ND		ug/kg	1000	320	30

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	0	Q	25-120
Phenol-d6	0	Q	10-120
Nitrobenzene-d5	0	Q	23-120
2-Fluorobiphenyl	0	Q	30-120
2,4,6-Tribromophenol	0	Q	10-136
4-Terphenyl-d14	0	Q	18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-07 D  
 Client ID: WC20\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 13:10  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/23/24 23:00  
 Analyst: LJG  
 Percent Solids: 92%

Extraction Method: EPA 3546  
 Extraction Date: 06/21/24 06:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	510	J	ug/kg	1400	190	10
Benzidine	ND		ug/kg	6000	2000	10
1,2,4-Trichlorobenzene	ND		ug/kg	1800	210	10
Hexachlorobenzene	ND		ug/kg	1100	200	10
Bis(2-chloroethyl)ether	ND		ug/kg	1600	240	10
2-Chloronaphthalene	ND		ug/kg	1800	180	10
1,2-Dichlorobenzene	ND		ug/kg	1800	320	10
1,3-Dichlorobenzene	ND		ug/kg	1800	310	10
1,4-Dichlorobenzene	ND		ug/kg	1800	320	10
3,3'-Dichlorobenzidine	ND		ug/kg	1800	480	10
2,4-Dinitrotoluene	ND		ug/kg	1800	360	10
2,6-Dinitrotoluene	ND		ug/kg	1800	310	10
Azobenzene	ND		ug/kg	1800	170	10
Fluoranthene	1600		ug/kg	1100	210	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1800	190	10
4-Bromophenyl phenyl ether	ND		ug/kg	1800	280	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2200	310	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2000	180	10
Hexachlorobutadiene	ND		ug/kg	1800	260	10
Hexachlorocyclopentadiene	ND		ug/kg	5200	1600	10
Hexachloroethane	ND		ug/kg	1400	290	10
Isophorone	ND		ug/kg	1600	230	10
Naphthalene	220	J	ug/kg	1800	220	10
Nitrobenzene	ND		ug/kg	1600	270	10
NDPA/DPA	ND		ug/kg	1400	200	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1800	280	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1800	620	10
Butyl benzyl phthalate	ND		ug/kg	1800	460	10

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

## SAMPLE RESULTS

Lab ID: L2433793-07 D  
 Client ID: WC20\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 13:10  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	1800	340	10
Di-n-octylphthalate	ND		ug/kg	1800	610	10
Diethyl phthalate	ND		ug/kg	1800	170	10
Dimethyl phthalate	ND		ug/kg	1800	380	10
Benzo(a)anthracene	13000		ug/kg	1100	200	10
Benzo(a)pyrene	22000		ug/kg	1400	440	10
Benzo(b)fluoranthene	10000		ug/kg	1100	300	10
Benzo(k)fluoranthene	1700		ug/kg	1100	290	10
Chrysene	13000		ug/kg	1100	190	10
Acenaphthylene	ND		ug/kg	1400	280	10
Anthracene	1600		ug/kg	1100	350	10
Benzo(ghi)perylene	27000		ug/kg	1400	210	10
Fluorene	540	J	ug/kg	1800	180	10
Phenanthrene	2600		ug/kg	1100	220	10
Dibenzo(a,h)anthracene	11000		ug/kg	1100	210	10
Indeno(1,2,3-cd)pyrene	11000		ug/kg	1400	250	10
Pyrene	9300		ug/kg	1100	180	10
Biphenyl	ND		ug/kg	4100	230	10
4-Chloroaniline	ND		ug/kg	1800	330	10
2-Nitroaniline	ND		ug/kg	1800	350	10
3-Nitroaniline	ND		ug/kg	1800	340	10
4-Nitroaniline	ND		ug/kg	1800	750	10
Dibenzofuran	ND		ug/kg	1800	170	10
2-Methylnaphthalene	390	J	ug/kg	2200	220	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1800	190	10
Acetophenone	ND		ug/kg	1800	220	10
n-Nitrosodimethylamine	ND		ug/kg	3600	350	10
2,4,6-Trichlorophenol	ND		ug/kg	1100	340	10
p-Chloro-m-cresol	ND		ug/kg	1800	270	10
2-Chlorophenol	ND		ug/kg	1800	210	10
2,4-Dichlorophenol	ND		ug/kg	1600	290	10
2,4-Dimethylphenol	ND		ug/kg	1800	600	10
2-Nitrophenol	ND		ug/kg	3900	680	10
4-Nitrophenol	ND		ug/kg	2500	740	10
2,4-Dinitrophenol	ND		ug/kg	8700	840	10
4,6-Dinitro-o-cresol	ND		ug/kg	4700	870	10
Pentachlorophenol	ND		ug/kg	1400	400	10

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433793**Project Number:** 170562203**Report Date:** 06/28/24**SAMPLE RESULTS**

Lab ID: L2433793-07 D  
 Client ID: WC20\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 13:10  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	ND		ug/kg	1800	270	10
2-Methylphenol	ND		ug/kg	1800	280	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	2600	280	10
2,4,5-Trichlorophenol	ND		ug/kg	1800	350	10
Benzoic Acid	ND		ug/kg	5800	1800	10
Benzyl Alcohol	ND		ug/kg	1800	550	10
Carbazole	ND		ug/kg	1800	180	10
Atrazine	ND		ug/kg	1400	630	10
Benzaldehyde	ND		ug/kg	2400	490	10
Caprolactam	ND		ug/kg	1800	550	10
2,3,4,6-Tetrachlorophenol	ND		ug/kg	1800	360	10
1,4-Dioxane	ND		ug/kg	270	83.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	80		10-120
Nitrobenzene-d5	104		23-120
2-Fluorobiphenyl	86		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	86		18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/21/24 02:32  
Analyst: CMM

Extraction Method: EPA 3546  
Extraction Date: 06/20/24 08:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,07 Batch: WG1936913-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	540	180
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	98	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	98	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Method Blank Analysis  
 Batch Quality Control**

Analytical Method: 1,8270E  
 Analytical Date: 06/21/24 02:32  
 Analyst: CMM

Extraction Method: EPA 3546  
 Extraction Date: 06/20/24 08:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,07 Batch: WG1936913-1					
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
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.
Biphenyl	ND		ug/kg	370	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
n-Nitrosodimethylamine	ND		ug/kg	330	31.
2,4,6-Trichlorophenol	ND		ug/kg	98	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/21/24 02:32  
Analyst: CMM

Extraction Method: EPA 3546  
Extraction Date: 06/20/24 08:05

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-03,07 Batch: WG1936913-1					
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	350	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	76.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	530	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.
1,4-Dioxane	ND		ug/kg	24	7.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	79		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	93		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	100		18-120



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,07 Batch: WG1936913-2 WG1936913-3								
Acenaphthene	61		77		31-137	23		50
Benzidine	46		57		10-66	21		50
1,2,4-Trichlorobenzene	64		86		38-107	29		50
Hexachlorobenzene	63		83		40-140	27		50
Bis(2-chloroethyl)ether	52		70		40-140	30		50
2-Chloronaphthalene	66		87		40-140	27		50
1,2-Dichlorobenzene	57		76		40-140	29		50
1,3-Dichlorobenzene	55		74		40-140	29		50
1,4-Dichlorobenzene	56		76		28-104	30		50
3,3'-Dichlorobenzidine	55		71		40-140	25		50
2,4-Dinitrotoluene	71		92		40-132	26		50
2,6-Dinitrotoluene	72		96		40-140	29		50
Azobenzene	58		74		40-140	24		50
Fluoranthene	68		90		40-140	28		50
4-Chlorophenyl phenyl ether	70		91		40-140	26		50
4-Bromophenyl phenyl ether	68		88		40-140	26		50
Bis(2-chloroisopropyl)ether	53		71		40-140	29		50
Bis(2-chloroethoxy)methane	56		71		40-117	24		50
Hexachlorobutadiene	75		99		40-140	28		50
Hexachlorocyclopentadiene	54		75		40-140	33		50
Hexachloroethane	55		71		40-140	25		50
Isophorone	57		75		40-140	27		50
Naphthalene	59		79		40-140	29		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,07 Batch: WG1936913-2 WG1936913-3								
Nitrobenzene	63		85		40-140	30		50
NDPA/DPA	64		81		36-157	23		50
n-Nitrosodi-n-propylamine	58		76		32-121	27		50
Bis(2-ethylhexyl)phthalate	52		70		40-140	30		50
Butyl benzyl phthalate	59		76		40-140	25		50
Di-n-butylphthalate	58		76		40-140	27		50
Di-n-octylphthalate	48		68		40-140	34		50
Diethyl phthalate	60		78		40-140	26		50
Dimethyl phthalate	67		88		40-140	27		50
Benzo(a)anthracene	61		82		40-140	29		50
Benzo(a)pyrene	61		82		40-140	29		50
Benzo(b)fluoranthene	56		76		40-140	30		50
Benzo(k)fluoranthene	63		86		40-140	31		50
Chrysene	62		83		40-140	29		50
Acenaphthylene	66		86		40-140	26		50
Anthracene	64		84		40-140	27		50
Benzo(ghi)perylene	58		78		40-140	29		50
Fluorene	64		81		40-140	23		50
Phenanthrene	62		80		40-140	25		50
Dibenzo(a,h)anthracene	59		81		40-140	31		50
Indeno(1,2,3-cd)pyrene	58		77		40-140	28		50
Pyrene	68		90		35-142	28		50
Biphenyl	60		78		37-127	26		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,07 Batch: WG1936913-2 WG1936913-3								
4-Chloroaniline	69		86		40-140	22		50
2-Nitroaniline	69		89		47-134	25		50
3-Nitroaniline	56		70		26-129	22		50
4-Nitroaniline	58		75		41-125	26		50
Dibenzofuran	64		82		40-140	25		50
2-Methylnaphthalene	64		84		40-140	27		50
1,2,4,5-Tetrachlorobenzene	69		93		40-117	30		50
Acetophenone	53		70		14-144	28		50
n-Nitrosodimethylamine	51		67		22-100	27		50
2,4,6-Trichlorophenol	74		100		30-130	30		50
p-Chloro-m-cresol	66		87		26-103	27		50
2-Chlorophenol	60		78		25-102	26		50
2,4-Dichlorophenol	66		88		30-130	29		50
2,4-Dimethylphenol	58		76		30-130	27		50
2-Nitrophenol	65		86		30-130	28		50
4-Nitrophenol	69		91		11-114	28		50
2,4-Dinitrophenol	69		89		4-130	25		50
4,6-Dinitro-o-cresol	77		102		10-130	28		50
Pentachlorophenol	60		77		17-109	25		50
Phenol	58		77		26-90	28		50
2-Methylphenol	60		80		30-130	29		50
3-Methylphenol/4-Methylphenol	64		85		30-130	28		50
2,4,5-Trichlorophenol	78		100		30-130	25		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2433793

**Project Number:** 170562203

**Report Date:** 06/28/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03,07 Batch: WG1936913-2 WG1936913-3								
Benzoic Acid	60		77		10-110	25		50
Benzyl Alcohol	66		87		40-140	27		50
Carbazole	62		80		54-128	25		50
Atrazine	68		83		40-140	20		50
Benzaldehyde	48		63		40-140	27		50
Caprolactam	58		74		15-130	24		50
2,3,4,6-Tetrachlorophenol	75		96		40-140	25		50
1,4-Dioxane	39	Q	51		40-140	27		50

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	59		80		25-120
Phenol-d6	61		79		10-120
Nitrobenzene-d5	65		85		23-120
2-Fluorobiphenyl	71		92		30-120
2,4,6-Tribromophenol	63		80		10-136
4-Terphenyl-d14	71		93		18-120

# PETROLEUM HYDROCARBONS

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-04 D  
 Client ID: WC03B\_GRAB\_2-3  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 09:05  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/22/24 20:35  
 Analyst: CRE  
 Percent Solids: 94%

Extraction Method: EPA 3546  
 Extraction Date: 06/21/24 18:03

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	17000		mg/kg	487	487.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-05  
 Client ID: WC03C\_GRAB\_7-8  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 12:15  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/22/24 21:45  
 Analyst: CRE  
 Percent Solids: 58%

Extraction Method: EPA 3546  
 Extraction Date: 06/21/24 00:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
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Total EPH	746000		mg/kg	38200	38200	140
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-06 D  
 Client ID: WC08B\_GRAB\_6-7  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 12:45  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/22/24 19:24  
 Analyst: CRE  
 Percent Solids: 94%

Extraction Method: EPA 3546  
 Extraction Date: 06/21/24 00:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	8200		mg/kg	250	250.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	124		40-140
o-Terphenyl	107		40-140

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433793**Project Number:** 170562203**Report Date:** 06/28/24**SAMPLE RESULTS**

Lab ID: L2433793-08 D  
 Client ID: WC08C\_GRAB\_2-3  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 13:35  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/22/24 21:10  
 Analyst: CRE  
 Percent Solids: 83%

Extraction Method: EPA 3546  
 Extraction Date: 06/21/24 00:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	382000		mg/kg	8920	8920	80

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Method Blank Analysis  
 Batch Quality Control**

Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/22/24 10:05  
 Analyst: CRE

Extraction Method: EPA 3546  
 Extraction Date: 06/21/24 00:01

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 04-06,08 Batch: WG1937344-1					
Total EPH	ND		mg/kg	23.4	23.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	78		40-140
o-Terphenyl	78		40-140

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 04-06,08 Batch: WG1937344-2 WG1937344-3								
Total EPH	98		101		40-140	3		25
Nonane (C9)	92		94		40-140	2		25
Decane (C10)	96		99		40-140	3		25
Dodecane (C12)	88		92		40-140	4		25
Tetradecane (C14)	85		89		40-140	5		25
Hexadecane (C16)	85		89		40-140	5		25
Octadecane (C18)	82		87		40-140	6		25
Eicosane (C20)	83		88		40-140	6		25
Heneicosane (C21)	85		90		40-140	6		25
Docosane (C22)	85		90		40-140	6		25
Tetracosane (C24)	86		91		40-140	6		25
Hexacosane (C26)	86		90		40-140	5		25
Octacosane (C28)	88		92		40-140	4		25
triacontane (C30)	88		93		40-140	6		25
Dotriacontane (C32)	91		95		40-140	4		25
Tetracontane (C34)	95		96		40-140	1		25
Hexatriacontane (C36)	107		105		40-140	2		25
Octatriacontane (C38)	116		109		40-140	6		25
Tetracontane (C40)	128		119		40-140	7		25

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 04-06,08 Batch: WG1937344-2 WG1937344-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Chloro-Octadecane	82		84		40-140
o-Terphenyl	82		84		40-140

**Lab Duplicate Analysis**  
**Batch Quality Control**

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2433793

**Report Date:** 06/28/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 04-06,08 QC Batch ID: WG1937344-5 QC Sample: L2433793-06 Client ID: WC08B_GRAB_6-7						
Total EPH	8200	7220	mg/kg	13		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	124		121		40-140
o-Terphenyl	107		102		40-140

# PCBS

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2433793-01  
**Client ID:** WC03\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/14/24 09:10  
**Date Received:** 06/14/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/21/24 11:04  
**Analyst:** RMP  
**Percent Solids:** 89%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/20/24 12:36  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/20/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/21/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
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	8.27	1	A
Aroclor 1254	ND		ug/kg	55.2	6.04	1	A
Aroclor 1260	ND		ug/kg	55.2	10.2	1	A
Aroclor 1262	ND		ug/kg	55.2	7.00	1	A
Aroclor 1268	ND		ug/kg	55.2	5.72	1	A
PCBs, Total	ND		ug/kg	55.2	4.90	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	53		30-150	B



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2433793-02  
**Client ID:** WC08\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/14/24 13:50  
**Date Received:** 06/14/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/21/24 11:12  
**Analyst:** RMP  
**Percent Solids:** 85%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/20/24 12:36  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/20/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/21/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	55.8	4.96	1	A
Aroclor 1221	ND		ug/kg	55.8	5.59	1	A
Aroclor 1232	ND		ug/kg	55.8	11.8	1	A
Aroclor 1242	596		ug/kg	55.8	7.53	1	B
Aroclor 1248	ND		ug/kg	55.8	8.38	1	A
Aroclor 1254	ND		ug/kg	55.8	6.11	1	A
Aroclor 1260	ND		ug/kg	55.8	10.3	1	A
Aroclor 1262	ND		ug/kg	55.8	7.09	1	A
Aroclor 1268	ND		ug/kg	55.8	5.78	1	A
PCBs, Total	596		ug/kg	55.8	4.96	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	61		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2433793-03  
**Client ID:** WC16\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/14/24 12:30  
**Date Received:** 06/14/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/21/24 11:20  
**Analyst:** RMP  
**Percent Solids:** 72%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/20/24 12:36  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/20/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/21/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	64.7	5.74	1	A
Aroclor 1221	ND		ug/kg	64.7	6.48	1	A
Aroclor 1232	ND		ug/kg	64.7	13.7	1	A
Aroclor 1242	ND		ug/kg	64.7	8.72	1	A
Aroclor 1248	ND		ug/kg	64.7	9.70	1	A
Aroclor 1254	ND		ug/kg	64.7	7.07	1	A
Aroclor 1260	ND		ug/kg	64.7	11.9	1	A
Aroclor 1262	ND		ug/kg	64.7	8.21	1	A
Aroclor 1268	ND		ug/kg	64.7	6.70	1	A
PCBs, Total	ND		ug/kg	64.7	5.74	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	39		30-150	A
Decachlorobiphenyl	36		30-150	A
2,4,5,6-Tetrachloro-m-xylene	38		30-150	B
Decachlorobiphenyl	37		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2433793-07  
**Client ID:** WC20\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/14/24 13:10  
**Date Received:** 06/14/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/21/24 11:28  
**Analyst:** RMP  
**Percent Solids:** 92%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/20/24 12:36  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/20/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/21/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	51.3	4.56	1	A
Aroclor 1221	ND		ug/kg	51.3	5.14	1	A
Aroclor 1232	ND		ug/kg	51.3	10.9	1	A
Aroclor 1242	ND		ug/kg	51.3	6.92	1	A
Aroclor 1248	ND		ug/kg	51.3	7.70	1	A
Aroclor 1254	ND		ug/kg	51.3	5.61	1	A
Aroclor 1260	ND		ug/kg	51.3	9.48	1	A
Aroclor 1262	ND		ug/kg	51.3	6.52	1	A
Aroclor 1268	ND		ug/kg	51.3	5.31	1	A
PCBs, Total	ND		ug/kg	51.3	4.56	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	55		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Method Blank Analysis  
 Batch Quality Control**

Analytical Method: 1,8082A  
 Analytical Date: 06/21/24 10:41  
 Analyst: RMP

Extraction Method: EPA 3546  
 Extraction Date: 06/20/24 12:36  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 06/20/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/21/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-03,07 Batch: WG1937098-1						
Aroclor 1016	ND		ug/kg	46.6	4.14	A
Aroclor 1221	ND		ug/kg	46.6	4.67	A
Aroclor 1232	ND		ug/kg	46.6	9.89	A
Aroclor 1242	ND		ug/kg	46.6	6.29	A
Aroclor 1248	ND		ug/kg	46.6	7.00	A
Aroclor 1254	ND		ug/kg	46.6	5.10	A
Aroclor 1260	ND		ug/kg	46.6	8.62	A
Aroclor 1262	ND		ug/kg	46.6	5.92	A
Aroclor 1268	ND		ug/kg	46.6	4.83	A
PCBs, Total	ND		ug/kg	46.6	4.14	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	80		30-150	B

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-03,07 Batch: WG1937098-2 WG1937098-3									
Aroclor 1016	79		73		40-140	8		50	A
Aroclor 1260	74		69		40-140	7		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		67		30-150	A
Decachlorobiphenyl	81		78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		74		30-150	B
Decachlorobiphenyl	84		79		30-150	B

# PESTICIDES

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2433793-01  
**Client ID:** WC03\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/14/24 09:10  
**Date Received:** 06/14/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 06/23/24 11:36  
**Analyst:** MMG  
**Percent Solids:** 89%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/21/24 12:39  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 06/22/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/22/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.76	0.344	1	A
Lindane	ND		ug/kg	0.731	0.327	1	A
Alpha-BHC	ND		ug/kg	0.731	0.208	1	A
Beta-BHC	ND		ug/kg	1.76	0.666	1	A
Heptachlor	ND		ug/kg	0.878	0.394	1	A
Aldrin	ND		ug/kg	1.76	0.618	1	A
Heptachlor epoxide	ND		ug/kg	3.29	0.987	1	A
Endrin	ND		ug/kg	0.731	0.300	1	A
Endrin aldehyde	ND		ug/kg	2.19	0.768	1	A
Endrin ketone	ND		ug/kg	1.76	0.452	1	A
Dieldrin	ND		ug/kg	1.10	0.549	1	A
4,4'-DDE	ND		ug/kg	1.76	0.406	1	A
4,4'-DDD	ND		ug/kg	1.76	0.626	1	A
4,4'-DDT	ND		ug/kg	1.76	1.41	1	A
Endosulfan I	ND		ug/kg	1.76	0.415	1	A
Endosulfan II	ND		ug/kg	1.76	0.587	1	A
Endosulfan sulfate	ND		ug/kg	0.731	0.348	1	A
Methoxychlor	ND		ug/kg	3.29	1.02	1	A
Toxaphene	ND		ug/kg	32.9	9.22	1	A
cis-Chlordane	ND		ug/kg	2.19	0.612	1	A
trans-Chlordane	ND		ug/kg	2.19	0.579	1	A
Chlordane	ND		ug/kg	14.6	5.82	1	A

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-01  
 Client ID: WC03\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 09:10  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		30-150	A
Decachlorobiphenyl	168	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	139		30-150	B



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-01  
 Client ID: WC03\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 09:10  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/20/24 15:55  
 Analyst: EJJ  
 Percent Solids: 89%  
 Methylation Date: 06/20/24 11:27

Extraction Method: EPA 8151A  
 Extraction Date: 06/19/24 09:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	187	11.8	1	A
2,4,5-T	ND		ug/kg	187	5.80	1	A
2,4,5-TP (Silvex)	ND		ug/kg	187	4.98	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	71		30-150	A
DCAA	69		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-02  
 Client ID: WC08\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 13:50  
 Date Received: 06/14/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 06/23/24 11:48  
 Analyst: MMG  
 Percent Solids: 85%

Extraction Method: EPA 3546  
 Extraction Date: 06/21/24 12:39  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 06/22/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/22/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.79	0.351	1	A
Lindane	ND		ug/kg	0.746	0.334	1	A
Alpha-BHC	ND		ug/kg	0.746	0.212	1	A
Beta-BHC	ND		ug/kg	1.79	0.679	1	A
Heptachlor	ND		ug/kg	0.895	0.401	1	A
Aldrin	ND		ug/kg	1.79	0.630	1	A
Heptachlor epoxide	ND		ug/kg	3.36	1.01	1	A
Endrin	ND		ug/kg	0.746	0.306	1	A
Endrin aldehyde	ND		ug/kg	2.24	0.783	1	A
Endrin ketone	ND		ug/kg	1.79	0.461	1	A
Dieldrin	ND		ug/kg	1.12	0.560	1	A
4,4'-DDE	ND		ug/kg	1.79	0.414	1	A
4,4'-DDD	ND		ug/kg	1.79	0.639	1	A
4,4'-DDT	ND		ug/kg	1.79	1.44	1	A
Endosulfan I	ND		ug/kg	1.79	0.423	1	A
Endosulfan II	ND		ug/kg	1.79	0.598	1	A
Endosulfan sulfate	ND		ug/kg	0.746	0.355	1	A
Methoxychlor	ND		ug/kg	3.36	1.04	1	A
Toxaphene	ND		ug/kg	33.6	9.40	1	A
cis-Chlordane	ND		ug/kg	2.24	0.624	1	A
trans-Chlordane	ND		ug/kg	2.24	0.591	1	A
Chlordane	ND		ug/kg	14.9	5.93	1	A

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-02  
 Client ID: WC08\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 13:50  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		30-150	B
Decachlorobiphenyl	162	Q	30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-02  
 Client ID: WC08\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 13:50  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/20/24 16:14  
 Analyst: EJL  
 Percent Solids: 85%  
 Methylation Date: 06/20/24 11:27

Extraction Method: EPA 8151A  
 Extraction Date: 06/19/24 09:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	191	12.0	1	A
2,4,5-T	ND		ug/kg	191	5.93	1	A
2,4,5-TP (Silvex)	ND		ug/kg	191	5.09	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	65		30-150	A
DCAA	67		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2433793-03  
**Client ID:** WC16\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/14/24 12:30  
**Date Received:** 06/14/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 06/23/24 12:01  
**Analyst:** MMG  
**Percent Solids:** 72%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/21/24 12:39  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 06/22/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/22/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	2.20	0.430	1	A
Lindane	ND		ug/kg	0.915	0.409	1	A
Alpha-BHC	ND		ug/kg	0.915	0.260	1	A
Beta-BHC	ND		ug/kg	2.20	0.833	1	A
Heptachlor	ND		ug/kg	1.10	0.492	1	A
Aldrin	ND		ug/kg	2.20	0.773	1	A
Heptachlor epoxide	ND		ug/kg	4.12	1.24	1	A
Endrin	ND		ug/kg	0.915	0.375	1	A
Endrin aldehyde	ND		ug/kg	2.74	0.961	1	A
Endrin ketone	ND		ug/kg	2.20	0.566	1	A
Dieldrin	ND		ug/kg	1.37	0.686	1	A
4,4'-DDE	ND		ug/kg	2.20	0.508	1	A
4,4'-DDD	ND		ug/kg	2.20	0.784	1	A
4,4'-DDT	ND		ug/kg	2.20	1.77	1	A
Endosulfan I	ND		ug/kg	2.20	0.519	1	A
Endosulfan II	ND		ug/kg	2.20	0.734	1	A
Endosulfan sulfate	ND		ug/kg	0.915	0.436	1	A
Methoxychlor	ND		ug/kg	4.12	1.28	1	A
Toxaphene	ND		ug/kg	41.2	11.5	1	A
cis-Chlordane	ND		ug/kg	2.74	0.765	1	A
trans-Chlordane	ND		ug/kg	2.74	0.725	1	A
Chlordane	ND		ug/kg	18.3	7.28	1	A

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-03  
 Client ID: WC16\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 12:30  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	136		30-150	A
Decachlorobiphenyl	<b>1090</b>	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	<b>2060</b>	Q	30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-03  
 Client ID: WC16\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 12:30  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/20/24 16:33  
 Analyst: EJL  
 Percent Solids: 72%  
 Methylation Date: 06/20/24 11:27

Extraction Method: EPA 8151A  
 Extraction Date: 06/19/24 09:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	224	14.1	1	A
2,4,5-T	ND		ug/kg	224	6.95	1	A
2,4,5-TP (Silvex)	ND		ug/kg	224	5.96	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	32		30-150	A
DCAA	21	Q	30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-07  
 Client ID: WC20\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 13:10  
 Date Received: 06/14/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 06/23/24 12:13  
 Analyst: MMG  
 Percent Solids: 92%

Extraction Method: EPA 3546  
 Extraction Date: 06/21/24 13:13  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 06/22/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/22/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.70	0.332	1	A
Lindane	ND		ug/kg	0.708	0.316	1	A
Alpha-BHC	ND		ug/kg	0.708	0.201	1	A
Beta-BHC	ND		ug/kg	1.70	0.644	1	A
Heptachlor	ND		ug/kg	0.849	0.381	1	A
Aldrin	ND		ug/kg	1.70	0.598	1	A
Heptachlor epoxide	ND		ug/kg	3.18	0.955	1	A
Endrin	ND		ug/kg	0.708	0.290	1	A
Endrin aldehyde	ND		ug/kg	2.12	0.743	1	A
Endrin ketone	ND		ug/kg	1.70	0.437	1	A
Dieldrin	ND		ug/kg	1.06	0.531	1	A
4,4'-DDE	ND		ug/kg	1.70	0.393	1	A
4,4'-DDD	ND		ug/kg	1.70	0.606	1	A
4,4'-DDT	ND		ug/kg	1.70	1.36	1	A
Endosulfan I	ND		ug/kg	1.70	0.401	1	A
Endosulfan II	ND		ug/kg	1.70	0.567	1	A
Endosulfan sulfate	ND		ug/kg	0.708	0.337	1	A
Methoxychlor	ND		ug/kg	3.18	0.990	1	A
Toxaphene	ND		ug/kg	31.8	8.91	1	A
cis-Chlordane	ND		ug/kg	2.12	0.591	1	A
trans-Chlordane	ND		ug/kg	2.12	0.560	1	A
Chlordane	ND		ug/kg	14.2	5.62	1	A



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-07  
 Client ID: WC20\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 13:10  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	263	Q	30-150	A
Decachlorobiphenyl	106		30-150	A
2,4,5,6-Tetrachloro-m-xylene	46		30-150	B
Decachlorobiphenyl	259	Q	30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2433793-07  
 Client ID: WC20\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/14/24 13:10  
 Date Received: 06/14/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/21/24 11:09  
 Analyst: JAG  
 Percent Solids: 92%  
 Methylation Date: 06/21/24 03:40

Extraction Method: EPA 8151A  
 Extraction Date: 06/19/24 09:10

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	177	11.1	1	A
2,4,5-T	ND		ug/kg	177	5.48	1	A
2,4,5-TP (Silvex)	ND		ug/kg	177	4.70	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	82		30-150	A
DCAA	98		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8151A  
Analytical Date: 06/20/24 12:50  
Analyst: EJL

Extraction Method: EPA 8151A  
Extraction Date: 06/19/24 09:10

Methylation Date: 06/20/24 11:27

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-03,07 Batch: WG1936372-1						
2,4-D	ND		ug/kg	162	10.2	A
2,4,5-T	ND		ug/kg	162	5.02	A
2,4,5-TP (Silvex)	ND		ug/kg	162	4.31	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	76		30-150	A
DCAA	78		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 06/23/24 10:59  
Analyst: MMG

Extraction Method: EPA 3546  
Extraction Date: 06/21/24 12:39  
Cleanup Method: EPA 3620B  
Cleanup Date: 06/22/24  
Cleanup Method: EPA 3660B  
Cleanup Date: 06/22/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03,07 Batch: WG1937644-1						
Delta-BHC	ND		ug/kg	1.57	0.307	A
Lindane	ND		ug/kg	0.654	0.292	A
Alpha-BHC	ND		ug/kg	0.654	0.186	A
Beta-BHC	ND		ug/kg	1.57	0.595	A
Heptachlor	ND		ug/kg	0.785	0.352	A
Aldrin	ND		ug/kg	1.57	0.553	A
Heptachlor epoxide	ND		ug/kg	2.94	0.883	A
Endrin	ND		ug/kg	0.654	0.268	A
Endrin aldehyde	ND		ug/kg	1.96	0.687	A
Endrin ketone	ND		ug/kg	1.57	0.404	A
Dieldrin	ND		ug/kg	0.981	0.490	A
4,4'-DDE	ND		ug/kg	1.57	0.363	A
4,4'-DDD	ND		ug/kg	1.57	0.560	A
4,4'-DDT	ND		ug/kg	1.57	1.26	A
Endosulfan I	ND		ug/kg	1.57	0.371	A
Endosulfan II	ND		ug/kg	1.57	0.524	A
Endosulfan sulfate	ND		ug/kg	0.654	0.311	A
Methoxychlor	ND		ug/kg	2.94	0.916	A
Toxaphene	ND		ug/kg	29.4	8.24	A
cis-Chlordane	ND		ug/kg	1.96	0.547	A
trans-Chlordane	ND		ug/kg	1.96	0.518	A
Chlordane	ND		ug/kg	13.1	5.20	A

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Method Blank Analysis  
 Batch Quality Control**

Analytical Method: 1,8081B  
 Analytical Date: 06/23/24 10:59  
 Analyst: MMG

Extraction Method: EPA 3546  
 Extraction Date: 06/21/24 12:39  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 06/22/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/22/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-03,07 Batch: WG1937644-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	98		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	102		30-150	B

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-03,07 Batch: WG1936372-2 WG1936372-3									
2,4-D	81		81		30-150	0		30	A
2,4,5-T	87		88		30-150	1		30	A
2,4,5-TP (Silvex)	81		80		30-150	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	80		81		30-150	A
DCAA	92		86		30-150	B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03,07 Batch: WG1937644-2 WG1937644-3									
Delta-BHC	72		74		30-150	3		30	A
Lindane	70		71		30-150	1		30	A
Alpha-BHC	74		75		30-150	1		30	A
Beta-BHC	72		73		30-150	1		30	A
Heptachlor	62		63		30-150	2		30	A
Aldrin	69		70		30-150	1		30	A
Heptachlor epoxide	71		72		30-150	1		30	A
Endrin	77		79		30-150	3		30	A
Endrin aldehyde	68		67		30-150	1		30	A
Endrin ketone	78		80		30-150	3		30	A
Dieldrin	83		84		30-150	1		30	A
4,4'-DDE	75		77		30-150	3		30	A
4,4'-DDD	85		88		30-150	3		30	A
4,4'-DDT	69		71		30-150	3		30	A
Endosulfan I	72		74		30-150	3		30	A
Endosulfan II	80		82		30-150	2		30	A
Endosulfan sulfate	86		89		30-150	3		30	A
Methoxychlor	79		81		30-150	3		30	A
cis-Chlordane	70		70		30-150	0		30	A
trans-Chlordane	77		78		30-150	1		30	A

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-03,07 Batch: WG1937644-2 WG1937644-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	69		67		30-150	A
Decachlorobiphenyl	85		86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		71		30-150	B
Decachlorobiphenyl	87		88		30-150	B





## METALS

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433793**Project Number:** 170562203**Report Date:** 06/28/24**SAMPLE RESULTS**

Lab ID: L2433793-01

Date Collected: 06/14/24 09:10

Client ID: WC03\_COMP\_0-4

Date Received: 06/14/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/17/24 16:57

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	0.0247	J	mg/l	1.00	0.0190	1	06/19/24 21:45	06/21/24 09:45	EPA 3015	1,6010D	JMF
Barium, TCLP	0.563		mg/l	0.500	0.0210	1	06/19/24 21:45	06/21/24 09:45	EPA 3015	1,6010D	JMF
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/19/24 21:45	06/21/24 09:45	EPA 3015	1,6010D	JMF
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/19/24 21:45	06/21/24 09:45	EPA 3015	1,6010D	JMF
Lead, TCLP	0.130	J	mg/l	0.500	0.0270	1	06/19/24 21:45	06/21/24 09:45	EPA 3015	1,6010D	JMF
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/19/24 20:42	06/20/24 07:16	EPA 7470A	1,7470A	JWN
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/19/24 21:45	06/21/24 09:45	EPA 3015	1,6010D	JMF
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/19/24 21:45	06/21/24 09:45	EPA 3015	1,6010D	JMF



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

## SAMPLE RESULTS

Lab ID: L2433793-01

Date Collected: 06/14/24 09:10

Client ID: WC03\_COMP\_0-4

Date Received: 06/14/24

Sample Location: 145-165 WOLCOTT STREET

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
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	3700		mg/kg	8.87	2.40	2	06/20/24 00:15	06/20/24 23:44	EPA 3050B	1,6010D	JMF
Antimony, Total	0.782	J	mg/kg	4.44	0.337	2	06/20/24 00:15	06/20/24 23:44	EPA 3050B	1,6010D	JMF
Arsenic, Total	7.63		mg/kg	0.887	0.184	2	06/20/24 00:15	06/20/24 23:44	EPA 3050B	1,6010D	JMF
Barium, Total	73.3		mg/kg	0.887	0.154	2	06/20/24 00:15	06/20/24 23:44	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.222	J	mg/kg	0.444	0.029	2	06/20/24 00:15	06/20/24 23:44	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.124	J	mg/kg	0.887	0.087	2	06/20/24 00:15	06/20/24 23:44	EPA 3050B	1,6010D	JMF
Calcium, Total	13800		mg/kg	8.87	3.10	2	06/20/24 00:15	06/20/24 23:44	EPA 3050B	1,6010D	JMF
Chromium, Total	11.2		mg/kg	0.887	0.085	2	06/20/24 00:15	06/20/24 23:44	EPA 3050B	1,6010D	JMF
Cobalt, Total	5.32		mg/kg	1.77	0.147	2	06/20/24 00:15	06/20/24 23:44	EPA 3050B	1,6010D	JMF
Copper, Total	36.3		mg/kg	0.887	0.229	2	06/20/24 00:15	06/20/24 23:44	EPA 3050B	1,6010D	JMF
Iron, Total	12800		mg/kg	4.44	0.801	2	06/20/24 00:15	06/20/24 23:44	EPA 3050B	1,6010D	JMF
Lead, Total	219		mg/kg	4.44	0.238	2	06/20/24 00:15	06/20/24 23:44	EPA 3050B	1,6010D	JMF
Magnesium, Total	2120		mg/kg	8.87	1.37	2	06/20/24 00:15	06/20/24 23:44	EPA 3050B	1,6010D	JMF
Manganese, Total	167		mg/kg	0.887	0.141	2	06/20/24 00:15	06/20/24 23:44	EPA 3050B	1,6010D	JMF
Mercury, Total	0.408		mg/kg	0.072	0.047	1	06/20/24 01:00	06/21/24 12:08	EPA 7471B	1,7471B	JWN
Nickel, Total	19.4		mg/kg	2.22	0.215	2	06/20/24 00:15	06/20/24 23:44	EPA 3050B	1,6010D	JMF
Potassium, Total	564		mg/kg	222	12.8	2	06/20/24 00:15	06/20/24 23:44	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	1.77	0.229	2	06/20/24 00:15	06/20/24 23:44	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.444	0.251	2	06/20/24 00:15	06/20/24 23:44	EPA 3050B	1,6010D	JMF
Sodium, Total	187		mg/kg	177	2.80	2	06/20/24 00:15	06/20/24 23:44	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.77	0.280	2	06/20/24 00:15	06/20/24 23:44	EPA 3050B	1,6010D	JMF
Vanadium, Total	12.0		mg/kg	0.887	0.180	2	06/20/24 00:15	06/20/24 23:44	EPA 3050B	1,6010D	JMF
Zinc, Total	138		mg/kg	4.44	0.260	2	06/20/24 00:15	06/20/24 23:44	EPA 3050B	1,6010D	JMF
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	11.2		mg/kg	0.903	0.180	1		06/21/24 10:23	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433793**Project Number:** 170562203**Report Date:** 06/28/24**SAMPLE RESULTS**

Lab ID: L2433793-02

Date Collected: 06/14/24 13:50

Client ID: WC08\_COMP\_0-4

Date Received: 06/14/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/17/24 16:57

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/19/24 21:45	06/21/24 09:51	EPA 3015	1,6010D	JMF
Barium, TCLP	0.965		mg/l	0.500	0.0210	1	06/19/24 21:45	06/21/24 09:51	EPA 3015	1,6010D	JMF
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/19/24 21:45	06/21/24 09:51	EPA 3015	1,6010D	JMF
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/19/24 21:45	06/21/24 09:51	EPA 3015	1,6010D	JMF
Lead, TCLP	0.285	J	mg/l	0.500	0.0270	1	06/19/24 21:45	06/21/24 09:51	EPA 3015	1,6010D	JMF
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/19/24 20:42	06/20/24 07:29	EPA 7470A	1,7470A	JWN
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/19/24 21:45	06/21/24 09:51	EPA 3015	1,6010D	JMF
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/19/24 21:45	06/21/24 09:51	EPA 3015	1,6010D	JMF



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

## SAMPLE RESULTS

Lab ID: L2433793-02

Date Collected: 06/14/24 13:50

Client ID: WC08\_COMP\_0-4

Date Received: 06/14/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	4620		mg/kg	18.1	4.88	4	06/20/24 00:15	06/21/24 13:00	EPA 3050B	1,6010D	JMF
Antimony, Total	7.12	J	mg/kg	9.04	0.687	4	06/20/24 00:15	06/21/24 13:00	EPA 3050B	1,6010D	JMF
Arsenic, Total	23.2		mg/kg	1.81	0.376	4	06/20/24 00:15	06/21/24 13:00	EPA 3050B	1,6010D	JMF
Barium, Total	132		mg/kg	1.81	0.314	4	06/20/24 00:15	06/21/24 13:00	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.350	J	mg/kg	0.904	0.060	4	06/20/24 00:15	06/21/24 13:00	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.710	J	mg/kg	1.81	0.177	4	06/20/24 00:15	06/21/24 13:00	EPA 3050B	1,6010D	JMF
Calcium, Total	19000		mg/kg	18.1	6.32	4	06/20/24 00:15	06/21/24 13:00	EPA 3050B	1,6010D	JMF
Chromium, Total	19.1		mg/kg	1.81	0.173	4	06/20/24 00:15	06/21/24 13:00	EPA 3050B	1,6010D	JMF
Cobalt, Total	10.5		mg/kg	3.61	0.300	4	06/20/24 00:15	06/21/24 13:00	EPA 3050B	1,6010D	JMF
Copper, Total	196		mg/kg	1.81	0.466	4	06/20/24 00:15	06/21/24 13:00	EPA 3050B	1,6010D	JMF
Iron, Total	58000		mg/kg	9.04	1.63	4	06/20/24 00:15	06/21/24 13:00	EPA 3050B	1,6010D	JMF
Lead, Total	386		mg/kg	9.04	0.484	4	06/20/24 00:15	06/21/24 13:00	EPA 3050B	1,6010D	JMF
Magnesium, Total	2490		mg/kg	18.1	2.78	4	06/20/24 00:15	06/21/24 13:00	EPA 3050B	1,6010D	JMF
Manganese, Total	522		mg/kg	1.81	0.287	4	06/20/24 00:15	06/21/24 13:00	EPA 3050B	1,6010D	JMF
Mercury, Total	1.08		mg/kg	0.075	0.049	1	06/20/24 01:00	06/21/24 12:18	EPA 7471B	1,7471B	JWN
Nickel, Total	34.0		mg/kg	4.52	0.437	4	06/20/24 00:15	06/21/24 13:00	EPA 3050B	1,6010D	JMF
Potassium, Total	540		mg/kg	452	26.0	4	06/20/24 00:15	06/21/24 13:00	EPA 3050B	1,6010D	JMF
Selenium, Total	1.12	J	mg/kg	3.61	0.466	4	06/20/24 00:15	06/21/24 13:00	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.904	0.511	4	06/20/24 00:15	06/21/24 13:00	EPA 3050B	1,6010D	JMF
Sodium, Total	116	J	mg/kg	361	5.69	4	06/20/24 00:15	06/21/24 13:00	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	3.61	0.569	4	06/20/24 00:15	06/21/24 13:00	EPA 3050B	1,6010D	JMF
Vanadium, Total	27.5		mg/kg	1.81	0.367	4	06/20/24 00:15	06/21/24 13:00	EPA 3050B	1,6010D	JMF
Zinc, Total	323		mg/kg	9.04	0.529	4	06/20/24 00:15	06/21/24 13:00	EPA 3050B	1,6010D	JMF

## General Chemistry - Mansfield Lab

Chromium, Trivalent	19.1		mg/kg	1.81	0.188	1		06/21/24 13:00	NA	107,-	
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**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433793**Project Number:** 170562203**Report Date:** 06/28/24**SAMPLE RESULTS**

Lab ID: L2433793-03

Date Collected: 06/14/24 12:30

Client ID: WC16\_COMP\_4-9

Date Received: 06/14/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/17/24 16:57

Matrix: Soil

Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/19/24 21:45	06/21/24 10:34	EPA 3015	1,6010D	JMF
Barium, TCLP	0.190	J	mg/l	0.500	0.0210	1	06/19/24 21:45	06/21/24 10:34	EPA 3015	1,6010D	JMF
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/19/24 21:45	06/21/24 10:34	EPA 3015	1,6010D	JMF
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/19/24 21:45	06/21/24 10:34	EPA 3015	1,6010D	JMF
Lead, TCLP	0.814		mg/l	0.500	0.0270	1	06/19/24 21:45	06/21/24 10:34	EPA 3015	1,6010D	JMF
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/19/24 20:42	06/20/24 07:33	EPA 7470A	1,7470A	JWN
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/19/24 21:45	06/21/24 10:34	EPA 3015	1,6010D	JMF
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/19/24 21:45	06/21/24 10:34	EPA 3015	1,6010D	JMF



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

## SAMPLE RESULTS

Lab ID: L2433793-03

Date Collected: 06/14/24 12:30

Client ID: WC16\_COMP\_4-9

Date Received: 06/14/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 72%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	2270		mg/kg	10.5	2.84	2	06/20/24 00:15	06/20/24 23:51	EPA 3050B	1,6010D	JMF
Antimony, Total	ND		mg/kg	5.27	0.400	2	06/20/24 00:15	06/20/24 23:51	EPA 3050B	1,6010D	JMF
Arsenic, Total	2.43		mg/kg	1.05	0.219	2	06/20/24 00:15	06/20/24 23:51	EPA 3050B	1,6010D	JMF
Barium, Total	26.2		mg/kg	1.05	0.183	2	06/20/24 00:15	06/20/24 23:51	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.209	J	mg/kg	0.527	0.035	2	06/20/24 00:15	06/20/24 23:51	EPA 3050B	1,6010D	JMF
Cadmium, Total	ND		mg/kg	1.05	0.103	2	06/20/24 00:15	06/20/24 23:51	EPA 3050B	1,6010D	JMF
Calcium, Total	780		mg/kg	10.5	3.69	2	06/20/24 00:15	06/20/24 23:51	EPA 3050B	1,6010D	JMF
Chromium, Total	4.99		mg/kg	1.05	0.101	2	06/20/24 00:15	06/20/24 23:51	EPA 3050B	1,6010D	JMF
Cobalt, Total	3.02		mg/kg	2.11	0.175	2	06/20/24 00:15	06/20/24 23:51	EPA 3050B	1,6010D	JMF
Copper, Total	4.14		mg/kg	1.05	0.272	2	06/20/24 00:15	06/20/24 23:51	EPA 3050B	1,6010D	JMF
Iron, Total	6800		mg/kg	5.27	0.951	2	06/20/24 00:15	06/20/24 23:51	EPA 3050B	1,6010D	JMF
Lead, Total	68.4		mg/kg	5.27	0.282	2	06/20/24 00:15	06/20/24 23:51	EPA 3050B	1,6010D	JMF
Magnesium, Total	700		mg/kg	10.5	1.62	2	06/20/24 00:15	06/20/24 23:51	EPA 3050B	1,6010D	JMF
Manganese, Total	139		mg/kg	1.05	0.168	2	06/20/24 00:15	06/20/24 23:51	EPA 3050B	1,6010D	JMF
Mercury, Total	ND		mg/kg	0.091	0.060	1	06/20/24 01:00	06/21/24 12:21	EPA 7471B	1,7471B	JWN
Nickel, Total	7.22		mg/kg	2.63	0.255	2	06/20/24 00:15	06/20/24 23:51	EPA 3050B	1,6010D	JMF
Potassium, Total	368		mg/kg	263	15.2	2	06/20/24 00:15	06/20/24 23:51	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	2.11	0.272	2	06/20/24 00:15	06/20/24 23:51	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.527	0.298	2	06/20/24 00:15	06/20/24 23:51	EPA 3050B	1,6010D	JMF
Sodium, Total	111	J	mg/kg	211	3.32	2	06/20/24 00:15	06/20/24 23:51	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	2.11	0.332	2	06/20/24 00:15	06/20/24 23:51	EPA 3050B	1,6010D	JMF
Vanadium, Total	8.31		mg/kg	1.05	0.214	2	06/20/24 00:15	06/20/24 23:51	EPA 3050B	1,6010D	JMF
Zinc, Total	16.2		mg/kg	5.27	0.309	2	06/20/24 00:15	06/20/24 23:51	EPA 3050B	1,6010D	JMF
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	4.99		mg/kg	1.10	0.221	1		06/21/24 10:23	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433793**Project Number:** 170562203**Report Date:** 06/28/24**SAMPLE RESULTS**

Lab ID: L2433793-07

Date Collected: 06/14/24 13:10

Client ID: WC20\_COMP\_4-9

Date Received: 06/14/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/17/24 16:57

Matrix: Soil

Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	0.0225	J	mg/l	1.00	0.0190	1	06/20/24 19:48	06/21/24 12:09	EPA 3015	1,6010D	DMC
Barium, TCLP	0.480	J	mg/l	0.500	0.0210	1	06/20/24 19:48	06/21/24 12:09	EPA 3015	1,6010D	DMC
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/20/24 19:48	06/21/24 12:09	EPA 3015	1,6010D	DMC
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/20/24 19:48	06/21/24 12:09	EPA 3015	1,6010D	DMC
Lead, TCLP	0.0511	J	mg/l	0.500	0.0270	1	06/20/24 19:48	06/21/24 12:09	EPA 3015	1,6010D	DMC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/20/24 18:31	06/21/24 11:12	EPA 7470A	1,7470A	JWN
Selenium, TCLP	0.0428	J	mg/l	0.500	0.0350	1	06/20/24 19:48	06/21/24 12:09	EPA 3015	1,6010D	DMC
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/20/24 19:48	06/21/24 12:09	EPA 3015	1,6010D	DMC





Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

## SAMPLE RESULTS

Lab ID: L2433793-07

Date Collected: 06/14/24 13:10

Client ID: WC20\_COMP\_4-9

Date Received: 06/14/24

Sample Location: 145-165 WOLCOTT STREET

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
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	2710		mg/kg	8.48	2.29	2	06/20/24 00:15	06/20/24 23:55	EPA 3050B	1,6010D	JMF
Antimony, Total	ND		mg/kg	4.24	0.322	2	06/20/24 00:15	06/20/24 23:55	EPA 3050B	1,6010D	JMF
Arsenic, Total	6.26		mg/kg	0.848	0.176	2	06/20/24 00:15	06/20/24 23:55	EPA 3050B	1,6010D	JMF
Barium, Total	24.0		mg/kg	0.848	0.148	2	06/20/24 00:15	06/20/24 23:55	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.246	J	mg/kg	0.424	0.028	2	06/20/24 00:15	06/20/24 23:55	EPA 3050B	1,6010D	JMF
Cadmium, Total	ND		mg/kg	0.848	0.083	2	06/20/24 00:15	06/20/24 23:55	EPA 3050B	1,6010D	JMF
Calcium, Total	3540		mg/kg	8.48	2.97	2	06/20/24 00:15	06/20/24 23:55	EPA 3050B	1,6010D	JMF
Chromium, Total	6.62		mg/kg	0.848	0.081	2	06/20/24 00:15	06/20/24 23:55	EPA 3050B	1,6010D	JMF
Cobalt, Total	3.31		mg/kg	1.70	0.141	2	06/20/24 00:15	06/20/24 23:55	EPA 3050B	1,6010D	JMF
Copper, Total	9.95		mg/kg	0.848	0.219	2	06/20/24 00:15	06/20/24 23:55	EPA 3050B	1,6010D	JMF
Iron, Total	10500		mg/kg	4.24	0.766	2	06/20/24 00:15	06/20/24 23:55	EPA 3050B	1,6010D	JMF
Lead, Total	17.0		mg/kg	4.24	0.227	2	06/20/24 00:15	06/20/24 23:55	EPA 3050B	1,6010D	JMF
Magnesium, Total	1160		mg/kg	8.48	1.31	2	06/20/24 00:15	06/20/24 23:55	EPA 3050B	1,6010D	JMF
Manganese, Total	113		mg/kg	0.848	0.135	2	06/20/24 00:15	06/20/24 23:55	EPA 3050B	1,6010D	JMF
Mercury, Total	0.056	J	mg/kg	0.072	0.047	1	06/20/24 01:00	06/21/24 12:31	EPA 7471B	1,7471B	JWN
Nickel, Total	13.2		mg/kg	2.12	0.205	2	06/20/24 00:15	06/20/24 23:55	EPA 3050B	1,6010D	JMF
Potassium, Total	338		mg/kg	212	12.2	2	06/20/24 00:15	06/20/24 23:55	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	1.70	0.219	2	06/20/24 00:15	06/20/24 23:55	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.424	0.240	2	06/20/24 00:15	06/20/24 23:55	EPA 3050B	1,6010D	JMF
Sodium, Total	48.6	J	mg/kg	170	2.67	2	06/20/24 00:15	06/20/24 23:55	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.70	0.267	2	06/20/24 00:15	06/20/24 23:55	EPA 3050B	1,6010D	JMF
Vanadium, Total	11.3		mg/kg	0.848	0.172	2	06/20/24 00:15	06/20/24 23:55	EPA 3050B	1,6010D	JMF
Zinc, Total	26.1		mg/kg	4.24	0.248	2	06/20/24 00:15	06/20/24 23:55	EPA 3050B	1,6010D	JMF
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	6.62		mg/kg	0.873	0.175	1		06/21/24 10:23	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

### Method Blank Analysis Batch Quality Control

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-03 Batch: WG1936455-1									
Arsenic, TCLP	ND	mg/l	1.00	0.0190	1	06/19/24 21:45	06/20/24 08:02	1,6010D	DHL
Barium, TCLP	ND	mg/l	0.500	0.0210	1	06/19/24 21:45	06/20/24 08:02	1,6010D	DHL
Cadmium, TCLP	ND	mg/l	0.100	0.0100	1	06/19/24 21:45	06/20/24 08:02	1,6010D	DHL
Chromium, TCLP	ND	mg/l	0.200	0.0210	1	06/19/24 21:45	06/20/24 08:02	1,6010D	DHL
Lead, TCLP	ND	mg/l	0.500	0.0270	1	06/19/24 21:45	06/20/24 08:02	1,6010D	DHL
Selenium, TCLP	ND	mg/l	0.500	0.0350	1	06/19/24 21:45	06/20/24 08:02	1,6010D	DHL
Silver, TCLP	ND	mg/l	0.100	0.0280	1	06/19/24 21:45	06/20/24 08:02	1,6010D	DHL

#### Prep Information

Digestion Method: EPA 3015  
TCLP/SPLP Extraction Date: 06/17/24 16:57

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01-03 Batch: WG1936566-1									
Mercury, TCLP	ND	mg/l	0.0010	0.0005	1	06/19/24 20:42	06/20/24 07:10	1,7470A	JWN

#### Prep Information

Digestion Method: EPA 7470A  
TCLP/SPLP Extraction Date: 06/17/24 16:57

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03,07 Batch: WG1936692-1									
Aluminum, Total	ND	mg/kg	4.00	1.08	1	06/20/24 00:15	06/20/24 22:54	1,6010D	JMF
Antimony, Total	ND	mg/kg	2.00	0.152	1	06/20/24 00:15	06/20/24 22:54	1,6010D	JMF
Arsenic, Total	ND	mg/kg	0.400	0.083	1	06/20/24 00:15	06/20/24 22:54	1,6010D	JMF
Barium, Total	ND	mg/kg	0.400	0.070	1	06/20/24 00:15	06/20/24 22:54	1,6010D	JMF
Beryllium, Total	ND	mg/kg	0.200	0.013	1	06/20/24 00:15	06/20/24 22:54	1,6010D	JMF
Cadmium, Total	ND	mg/kg	0.400	0.039	1	06/20/24 00:15	06/20/24 22:54	1,6010D	JMF
Calcium, Total	ND	mg/kg	4.00	1.40	1	06/20/24 00:15	06/20/24 22:54	1,6010D	JMF
Chromium, Total	ND	mg/kg	0.400	0.038	1	06/20/24 00:15	06/20/24 22:54	1,6010D	JMF
Cobalt, Total	ND	mg/kg	0.800	0.066	1	06/20/24 00:15	06/20/24 22:54	1,6010D	JMF



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

### Method Blank Analysis Batch Quality Control

Copper, Total	ND		mg/kg	0.400	0.103	1	06/20/24 00:15	06/20/24 22:54	1,6010D	JMF
Iron, Total	0.970	J	mg/kg	2.00	0.361	1	06/20/24 00:15	06/20/24 22:54	1,6010D	JMF
Lead, Total	ND		mg/kg	2.00	0.107	1	06/20/24 00:15	06/20/24 22:54	1,6010D	JMF
Magnesium, Total	ND		mg/kg	4.00	0.616	1	06/20/24 00:15	06/20/24 22:54	1,6010D	JMF
Manganese, Total	ND		mg/kg	0.400	0.064	1	06/20/24 00:15	06/20/24 22:54	1,6010D	JMF
Nickel, Total	ND		mg/kg	1.00	0.097	1	06/20/24 00:15	06/20/24 22:54	1,6010D	JMF
Potassium, Total	ND		mg/kg	100	5.76	1	06/20/24 00:15	06/20/24 22:54	1,6010D	JMF
Selenium, Total	ND		mg/kg	0.800	0.103	1	06/20/24 00:15	06/20/24 22:54	1,6010D	JMF
Silver, Total	ND		mg/kg	0.200	0.113	1	06/20/24 00:15	06/20/24 22:54	1,6010D	JMF
Sodium, Total	ND		mg/kg	80.0	1.26	1	06/20/24 00:15	06/20/24 22:54	1,6010D	JMF
Thallium, Total	ND		mg/kg	0.800	0.126	1	06/20/24 00:15	06/20/24 22:54	1,6010D	JMF
Vanadium, Total	ND		mg/kg	0.400	0.081	1	06/20/24 00:15	06/20/24 22:54	1,6010D	JMF
Zinc, Total	ND		mg/kg	2.00	0.117	1	06/20/24 00:15	06/20/24 22:54	1,6010D	JMF

#### 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): 01-03,07 Batch: WG1936693-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	06/20/24 01:00	06/21/24 12:01	1,7471B	JWN

#### Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 07 Batch: WG1937016-1										
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/20/24 19:48	06/21/24 11:41	1,6010D	DMC
Barium, TCLP	ND		mg/l	0.500	0.0210	1	06/20/24 19:48	06/21/24 11:41	1,6010D	DMC
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/20/24 19:48	06/21/24 11:41	1,6010D	DMC
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/20/24 19:48	06/21/24 11:41	1,6010D	DMC
Lead, TCLP	ND		mg/l	0.500	0.0270	1	06/20/24 19:48	06/21/24 11:41	1,6010D	DMC
Selenium, TCLP	0.0376	J	mg/l	0.500	0.0350	1	06/20/24 19:48	06/21/24 11:41	1,6010D	DMC



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

## Method Blank Analysis Batch Quality Control

Silver, TCLP	ND	mg/l	0.100	0.0280	1	06/20/24 19:48	06/21/24 11:41	1,6010D	DMC
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### Prep Information

Digestion Method: EPA 3015  
TCLP/SPLP Extraction Date: 06/17/24 16:57

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 07 Batch: WG1937019-1									
Mercury, TCLP	ND	mg/l	0.0010	0.0005	1	06/20/24 18:31	06/21/24 10:57	1,7470A	JWN

### Prep Information

Digestion Method: EPA 7470A  
TCLP/SPLP Extraction Date: 06/17/24 16:57

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2433793

**Report Date:** 06/28/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-03 Batch: WG1936455-2								
Arsenic, TCLP	98		-		75-125	-		20
Barium, TCLP	93		-		75-125	-		20
Cadmium, TCLP	95		-		75-125	-		20
Chromium, TCLP	92		-		75-125	-		20
Lead, TCLP	99		-		75-125	-		20
Selenium, TCLP	98		-		75-125	-		20
Silver, TCLP	94		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-03 Batch: WG1936566-2								
Mercury, TCLP	85		-		80-120	-		

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2433793

**Report Date:** 06/28/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03,07 Batch: WG1936692-2					
Aluminum, Total	109	-	80-120	-	
Antimony, Total	104	-	80-120	-	
Arsenic, Total	102	-	80-120	-	
Barium, Total	105	-	80-120	-	
Beryllium, Total	107	-	80-120	-	
Cadmium, Total	102	-	80-120	-	
Calcium, Total	102	-	80-120	-	
Chromium, Total	100	-	80-120	-	
Cobalt, Total	102	-	80-120	-	
Copper, Total	103	-	80-120	-	
Iron, Total	106	-	80-120	-	
Lead, Total	103	-	80-120	-	
Magnesium, Total	99	-	80-120	-	
Manganese, Total	100	-	80-120	-	
Nickel, Total	98	-	80-120	-	
Potassium, Total	107	-	80-120	-	
Selenium, Total	103	-	80-120	-	
Silver, Total	107	-	80-120	-	
Sodium, Total	107	-	80-120	-	
Thallium, Total	101	-	80-120	-	
Vanadium, Total	102	-	80-120	-	

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2433793

**Report Date:** 06/28/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
<b>Total Metals - Mansfield Lab Associated sample(s): 01-03,07 Batch: WG1936692-2</b>					
Zinc, Total	98	-	80-120	-	
<b>Total Metals - Mansfield Lab Associated sample(s): 01-03,07 Batch: WG1936693-2</b>					
Mercury, Total	97	-	80-120	-	
<b>TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07 Batch: WG1937016-2</b>					
Arsenic, TCLP	106	-	75-125	-	20
Barium, TCLP	101	-	75-125	-	20
Cadmium, TCLP	103	-	75-125	-	20
Chromium, TCLP	100	-	75-125	-	20
Lead, TCLP	108	-	75-125	-	20
Selenium, TCLP	108	-	75-125	-	20
Silver, TCLP	100	-	75-125	-	20
<b>TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07 Batch: WG1937019-2</b>					
Mercury, TCLP	91	-	80-120	-	

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1936455-3 QC Sample: L2432196-01 Client ID: MS Sample												
Arsenic, TCLP	ND	1.2	1.23	102	-	-	-	-	75-125	-	-	20
Barium, TCLP	0.282J	20	19.3	96	-	-	-	-	75-125	-	-	20
Cadmium, TCLP	ND	0.53	0.515	97	-	-	-	-	75-125	-	-	20
Chromium, TCLP	ND	2	1.87	94	-	-	-	-	75-125	-	-	20
Lead, TCLP	0.124J	5.3	5.37	101	-	-	-	-	75-125	-	-	20
Selenium, TCLP	ND	1.2	1.22	102	-	-	-	-	75-125	-	-	20
Silver, TCLP	ND	0.5	0.485	97	-	-	-	-	75-125	-	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1936566-3 QC Sample: L2433793-01 Client ID: WC03_COMP_0-4												
Mercury, TCLP	ND	0.025	0.0236	94	-	-	-	-	75-125	-	-	20



### Matrix Spike Analysis Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

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): 01-03,07 QC Batch ID: WG1936692-3 QC Sample: L2433717-01 Client ID: MS Sample									
Aluminum, Total	2110	176	2860	426	Q	-	75-125	-	20
Antimony, Total	2.60J	44	46.5	106		-	75-125	-	20
Arsenic, Total	26.8	10.5	39.5	120		-	75-125	-	20
Barium, Total	19.4	176	210	108		-	75-125	-	20
Beryllium, Total	0.213J	4.4	4.91	112		-	75-125	-	20
Cadmium, Total	0.414J	4.66	5.34	115		-	75-125	-	20
Calcium, Total	670	879	1720	119		-	75-125	-	20
Chromium, Total	22.8	17.6	48.3	145	Q	-	75-125	-	20
Cobalt, Total	3.35	44	48.4	102		-	75-125	-	20
Copper, Total	879	22	921	191	Q	-	75-125	-	20
Iron, Total	5160	87.9	6170	1150	Q	-	75-125	-	20
Lead, Total	160	46.6	175	32	Q	-	75-125	-	20
Magnesium, Total	752	879	1560	92		-	75-125	-	20
Manganese, Total	29.2	44	81.0	118		-	75-125	-	20
Nickel, Total	20.0	44	67.8	109		-	75-125	-	20
Potassium, Total	133J	879	1130	128	Q	-	75-125	-	20
Selenium, Total	1.56J	10.5	12.4	118		-	75-125	-	20
Silver, Total	0.406J	4.4	5.11	116		-	75-125	-	20
Sodium, Total	327	879	1450	128	Q	-	75-125	-	20
Thallium, Total	ND	10.5	10.2	97		-	75-125	-	20
Vanadium, Total	34.8	44	93.7	134	Q	-	75-125	-	20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

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): 01-03,07 QC Batch ID: WG1936692-3 QC Sample: L2433717-01 Client ID: MS Sample									
Zinc, Total	60.7	44	119	133	Q	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01-03,07 QC Batch ID: WG1936693-3 QC Sample: L2433793-01 Client ID: WC03_COMP_0-4									
Mercury, Total	0.408	1.52	1.76	89	-	-	80-120	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07 QC Batch ID: WG1937016-3 QC Sample: L2433793-07 Client ID: WC20_COMP_4-9									
Arsenic, TCLP	0.0225J	1.2	1.32	110	-	-	75-125	-	20
Barium, TCLP	0.480J	20	20.4	102	-	-	75-125	-	20
Cadmium, TCLP	ND	0.53	0.540	102	-	-	75-125	-	20
Chromium, TCLP	ND	2	2.00	100	-	-	75-125	-	20
Lead, TCLP	0.0511J	5.3	5.69	107	-	-	75-125	-	20
Selenium, TCLP	0.0428J	1.2	1.35	112	-	-	75-125	-	20
Silver, TCLP	ND	0.5	0.501	100	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07 QC Batch ID: WG1937019-3 QC Sample: L2433793-07 Client ID: WC20_COMP_4-9									
Mercury, TCLP	ND	0.025	0.0230	92	-	-	75-125	-	20

## Lab Duplicate Analysis

*Batch Quality Control*

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1936455-4 QC Sample: L2432196-01 Client ID: DUP Sample						
Lead, TCLP	0.124J	0.137J	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1936566-4 QC Sample: L2433793-01 Client ID: WC03_COMP_0-4						
Mercury, TCLP	ND	ND	mg/l	NC		20
Total Metals - Mansfield Lab Associated sample(s): 01-03,07 QC Batch ID: WG1936692-4 QC Sample: L2433717-01 Client ID: DUP Sample						
Lead, Total	160	124	mg/kg	25	Q	20
Total Metals - Mansfield Lab Associated sample(s): 01-03,07 QC Batch ID: WG1936693-4 QC Sample: L2433793-01 Client ID: WC03_COMP_0-4						
Mercury, Total	0.408	0.415	mg/kg	2		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07 QC Batch ID: WG1937016-4 QC Sample: L2433793-07 Client ID: WC20_COMP_4-9						
Arsenic, TCLP	0.0225J	ND	mg/l	NC		20
Barium, TCLP	0.480J	0.471J	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	0.0511J	0.0557J	mg/l	NC		20
Selenium, TCLP	0.0428J	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07 QC Batch ID: WG1937019-4 QC Sample: L2433793-07 Client ID: WC20_COMP_4-9						
Mercury, TCLP	ND	ND	mg/l	NC		20

**Lab Serial Dilution  
Analysis  
Batch Quality Control**

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2433793

**Report Date:** 06/28/24

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03,07 QC Batch ID: WG1936692-6 QC Sample: L2433717-01 Client ID: DUP Sample						
Lead, Total	160	158	mg/kg	1		20

# **INORGANICS & MISCELLANEOUS**

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

### SAMPLE RESULTS

**Lab ID:** L2433793-01  
**Client ID:** WC03\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/14/24 09:10  
**Date Received:** 06/14/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/19/24 20:48	1,1030	REM



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

### SAMPLE RESULTS

**Lab ID:** L2433793-02  
**Client ID:** WC08\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/14/24 13:50  
**Date Received:** 06/14/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/19/24 20:48	1,1030	REM



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

### SAMPLE RESULTS

**Lab ID:** L2433793-03  
**Client ID:** WC16\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/14/24 12:30  
**Date Received:** 06/14/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/19/24 20:48	1,1030	REM





**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

### SAMPLE RESULTS

**Lab ID:** L2433793-07  
**Client ID:** WC20\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/14/24 13:10  
**Date Received:** 06/14/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/19/24 20:48	1,1030	REM



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2433793-01  
**Client ID:** WC03\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/14/24 09:10  
**Date Received:** 06/14/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	88.6		%	0.100	NA	1	-	06/18/24 08:51	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	06/19/24 19:10	06/20/24 12:40	1,9010C/9012B	JER
pH (H)	9.19		SU	-	NA	1	-	06/19/24 21:34	1,9045D	AAS
Chromium, Hexavalent	ND		mg/kg	0.903	0.180	1	06/20/24 11:42	06/21/24 10:23	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/20/24 15:20	06/20/24 17:03	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/20/24 15:20	06/20/24 17:20	125,7.3	JLB



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2433793-02  
**Client ID:** WC08\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/14/24 13:50  
**Date Received:** 06/14/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	85.2		%	0.100	NA	1	-	06/18/24 08:51	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	06/19/24 19:10	06/20/24 12:41	1,9010C/9012B	JER
pH (H)	8.66		SU	-	NA	1	-	06/19/24 21:34	1,9045D	AAS
Chromium, Hexavalent	ND		mg/kg	0.939	0.188	1	06/20/24 11:42	06/21/24 10:23	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/20/24 15:20	06/20/24 17:03	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/20/24 15:20	06/20/24 17:20	125,7.3	JLB



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2433793-03  
**Client ID:** WC16\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/14/24 12:30  
**Date Received:** 06/14/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	72.4		%	0.100	NA	1	-	06/18/24 08:51	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.3	0.28	1	06/19/24 19:10	06/20/24 12:42	1,9010C/9012B	JER
pH (H)	6.33		SU	-	NA	1	-	06/19/24 21:34	1,9045D	AAS
Chromium, Hexavalent	ND		mg/kg	1.10	0.221	1	06/20/24 11:42	06/21/24 10:23	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/20/24 15:20	06/20/24 17:05	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/20/24 15:20	06/20/24 17:22	125,7.3	JLB



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

## SAMPLE RESULTS

Lab ID: L2433793-04

Date Collected: 06/14/24 09:05

Client ID: WC03B\_GRAB\_2-3

Date Received: 06/14/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.9		%	0.100	NA	1	-	06/18/24 08:51	121,2540G	ROI



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

## SAMPLE RESULTS

Lab ID: L2433793-05

Date Collected: 06/14/24 12:15

Client ID: WC03C\_GRAB\_7-8

Date Received: 06/14/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	58.0		%	0.100	NA	1	-	06/18/24 08:51	121,2540G	ROI



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

## SAMPLE RESULTS

Lab ID: L2433793-06

Date Collected: 06/14/24 12:45

Client ID: WC08B\_GRAB\_6-7

Date Received: 06/14/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.1		%	0.100	NA	1	-	06/18/24 08:51	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2433793-07  
**Client ID:** WC20\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/14/24 13:10  
**Date Received:** 06/14/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	91.6		%	0.100	NA	1	-	06/19/24 10:11	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.0	0.21	1	06/19/24 19:10	06/20/24 12:43	1,9010C/9012B	JER
pH (H)	7.79		SU	-	NA	1	-	06/19/24 21:34	1,9045D	AAS
Chromium, Hexavalent	ND		mg/kg	0.873	0.175	1	06/20/24 11:42	06/21/24 10:23	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/20/24 15:20	06/20/24 17:05	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/20/24 15:20	06/20/24 17:22	125,7.3	JLB





Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

## SAMPLE RESULTS

Lab ID: L2433793-08

Date Collected: 06/14/24 13:35

Client ID: WC08C\_GRAB\_2-3

Date Received: 06/14/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.0		%	0.100	NA	1	-	06/18/24 08:51	121,2540G	ROI



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2433793

Project Number: 170562203

Report Date: 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01-03,07 Batch: WG1936678-1										
Cyanide, Total	ND		mg/kg	0.90	0.19	1	06/19/24 19:10	06/20/24 12:13	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 01-03,07 Batch: WG1936924-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	06/20/24 11:42	06/21/24 10:23	1,7196A	RDS
General Chemistry - Westborough Lab for sample(s): 01-03,07 Batch: WG1936999-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/20/24 15:20	06/20/24 17:00	125,7.3	JLB
General Chemistry - Westborough Lab for sample(s): 01-03,07 Batch: WG1937180-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/20/24 15:20	06/20/24 17:17	125,7.3	JLB

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2433793

**Report Date:** 06/28/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01-03,07 Batch: WG1936678-2 WG1936678-3								
Cyanide, Total	104		102		80-120	16		35
General Chemistry - Westborough Lab Associated sample(s): 01-03,07 Batch: WG1936724-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01-03,07 Batch: WG1936924-2								
Chromium, Hexavalent	86		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01-03,07 Batch: WG1936999-2								
Cyanide, Reactive	106		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01-03,07 Batch: WG1937180-2								
Sulfide, Reactive	111		-		60-125	-		40

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2433793

**Project Number:** 170562203

**Report Date:** 06/28/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03,07 QC Batch ID: WG1936678-4 WG1936678-5 QC Sample: L2433786-15 Client ID: MS Sample												
Cyanide, Total	ND	10	10	97		9.4	94		75-125	6		35
General Chemistry - Westborough Lab Associated sample(s): 01-03,07 QC Batch ID: WG1936924-4 QC Sample: L2433793-07 Client ID: WC20_COMP_4-9												
Chromium, Hexavalent	ND	1310	610	47	Q	-	-		75-125	-		20

### Lab Duplicate Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-06,08 QC Batch ID: WG1935691-1 QC Sample: L2433711-01 Client ID: DUP Sample						
Solids, Total	82.7	82.4	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 07 QC Batch ID: WG1936299-1 QC Sample: L2432096-77 Client ID: DUP Sample						
Solids, Total	81.8	83.0	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-03,07 QC Batch ID: WG1936724-2 QC Sample: L2433796-01 Client ID: DUP Sample						
pH	8.18	8.17	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 01-03,07 QC Batch ID: WG1936924-6 QC Sample: L2433793-07 Client ID: WC20_COMP_4-9						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01-03,07 QC Batch ID: WG1936999-3 QC Sample: L2433793-07 Client ID: WC20_COMP_4-9						
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 01-03,07 QC Batch ID: WG1937180-3 QC Sample: L2433793-07 Client ID: WC20_COMP_4-9						
Sulfide, Reactive	ND	ND	mg/kg	NC		40



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Serial\_No:**06282408:38  
**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information**

<b>Cooler</b>	<b>Custody Seal</b>
A	Absent
B	Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2433793-01A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),PB-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),CA-TI(180),NA-TI(180),K-TI(180),CD-TI(180)
L2433793-01B	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		IGNIT-1030(14),TCN-9010(14),REACTS(14),NYTCL-8270(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2433793-01C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		IGNIT-1030(14),TCN-9010(14),REACTS(14),NYTCL-8270(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2433793-01D	Glass 500ml/16oz unpreserved	A	NA		3.5	Y	Absent		IGNIT-1030(14),TCN-9010(14),REACTS(14),NYTCL-8270(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2433793-01X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.5	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2433793-01X9	Tumble Vessel	A	NA		3.5	Y	Absent		-
L2433793-02A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SE-TI(180),SB-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),K-TI(180),CA-TI(180),NA-TI(180),CD-TI(180)
L2433793-02B	Glass 120ml/4oz unpreserved	B	NA		3.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),IGNIT-1030(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)

\*Values in parentheses indicate holding time in days



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Serial\_No:**06282408:38  
**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2433793-02C	Glass 120ml/4oz unpreserved	B	NA		3.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),IGNIT-1030(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2433793-02D	Glass 500ml/16oz unpreserved	B	NA		3.4	Y	Absent		TCN-9010(14),NYTCL-8270(14),IGNIT-1030(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2433793-02X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.4	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2433793-02X9	Tumble Vessel	B	NA		3.4	Y	Absent		-
L2433793-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),TL-TI(180),CR-TI(180),AL-TI(180),NI-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CU-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),CD-TI(180),NA-TI(180),K-TI(180)
L2433793-03B	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		TCN-9010(14),IGNIT-1030(14),NYTCL-8270(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2433793-03C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		TCN-9010(14),IGNIT-1030(14),NYTCL-8270(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2433793-03D	Glass 500ml/16oz unpreserved	A	NA		3.5	Y	Absent		TCN-9010(14),IGNIT-1030(14),NYTCL-8270(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2433793-03X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.5	Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2433793-03X9	Tumble Vessel	A	NA		3.5	Y	Absent		-
L2433793-04A	Vial MeOH preserved	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2433793-04B	Vial water preserved	A	NA		3.5	Y	Absent	15-JUN-24 18:01	NYTCL-8260HLW(14)
L2433793-04C	Vial water preserved	A	NA		3.5	Y	Absent	15-JUN-24 18:01	NYTCL-8260HLW(14)
L2433793-04D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2433793-04E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NJEPH-TPH-CAT1(14)

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Serial\_No:**06282408:38  
**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2433793-05A	Vial MeOH preserved	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2433793-05B	Vial water preserved	A	NA		3.5	Y	Absent	15-JUN-24 18:01	NYTCL-8260HLW(14)
L2433793-05C	Vial water preserved	A	NA		3.5	Y	Absent	15-JUN-24 18:01	NYTCL-8260HLW(14)
L2433793-05D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2433793-05E	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NJEPH-TPH-CAT1(14)
L2433793-06A	Vial MeOH preserved	B	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2433793-06B	Vial water preserved	B	NA		3.4	Y	Absent	15-JUN-24 18:01	NYTCL-8260HLW(14)
L2433793-06C	Vial water preserved	B	NA		3.4	Y	Absent	15-JUN-24 18:01	NYTCL-8260HLW(14)
L2433793-06D	Plastic 2oz unpreserved for TS	B	NA		3.4	Y	Absent		TS(7)
L2433793-06E	Glass 120ml/4oz unpreserved	B	NA		3.4	Y	Absent		NJEPH-TPH-CAT1(14)
L2433793-07A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),TL-TI(180),NI-TI(180),AL-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),CO-TI(180),V-TI(180),MN-TI(180),MG-TI(180),FE-TI(180),HG-T(28),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2433793-07B	Glass 120ml/4oz unpreserved	B	NA		3.4	Y	Absent		IGNIT-1030(14),TCN-9010(14),NYTCL-8270(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2433793-07C	Glass 120ml/4oz unpreserved	B	NA		3.4	Y	Absent		IGNIT-1030(14),TCN-9010(14),NYTCL-8270(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2433793-07D	Glass 500ml/16oz unpreserved	B	NA		3.4	Y	Absent		IGNIT-1030(14),TCN-9010(14),NYTCL-8270(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2433793-07X	Plastic 120ml HNO3 preserved Extracts	NA	NA			Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2433793-07X9	Tumble Vessel	NA	NA			Y	Absent		-
L2433793-08A	Vial MeOH preserved	B	NA		3.4	Y	Absent		NYTCL-8260HLW(14)
L2433793-08B	Vial water preserved	B	NA		3.4	Y	Absent	15-JUN-24 18:01	NYTCL-8260HLW(14)
L2433793-08C	Vial water preserved	B	NA		3.4	Y	Absent	15-JUN-24 18:01	NYTCL-8260HLW(14)



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

Serial\_No:06282408:38  
**Lab Number:** L2433793  
**Report Date:** 06/28/24

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2433793-08D	Plastic 2oz unpreserved for TS	B	NA		3.4	Y	Absent		TS(7)
L2433793-08E	Glass 120ml/4oz unpreserved	B	NA		3.4	Y	Absent		NJEPH-TPH-CAT1(14)
L2433793-09A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		HOLD-METAL(180)
L2433793-09B	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433793-10A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		HOLD-METAL(180)
L2433793-10B	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433793-11A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		HOLD-METAL(180)
L2433793-11B	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433793-12A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		HOLD-METAL(180)
L2433793-12B	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433793-13A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		HOLD-METAL(180)
L2433793-13B	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433793-14A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		HOLD-METAL(180)
L2433793-14B	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433793-15A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		HOLD-METAL(180)
L2433793-15B	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433793-16A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		HOLD-METAL(180)
L2433793-16B	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433793-17A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		HOLD-METAL(180)
L2433793-17B	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433793-18A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		HOLD-METAL(180)
L2433793-18B	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433793-19A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		HOLD-METAL(180)
L2433793-19B	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433793-20A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		HOLD-METAL(180)
L2433793-20B	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433793-21A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		HOLD-METAL(180)
L2433793-21B	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()

\*Values in parentheses indicate holding time in days



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2433793**Project Number:** 170562203**Report Date:** 06/28/24**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2433793-22A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		HOLD-METAL(180)
L2433793-22B	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433793-23A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		HOLD-METAL(180)
L2433793-23B	Glass 250ml/8oz unpreserved	A	NA		3.5	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433793-24A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		HOLD-METAL(180)
L2433793-24B	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433793-25A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		HOLD-METAL(180)
L2433793-25B	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433793-26A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		HOLD-METAL(180)
L2433793-26B	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433793-27A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		HOLD-METAL(180)
L2433793-27B	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2433793-28A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.4	Y	Absent		HOLD-METAL(180)
L2433793-28B	Glass 250ml/8oz unpreserved	B	NA		3.4	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()

**Project Name:** 145-165 WOLCOTT STREET  
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**Lab Number:** L2433793  
**Report Date:** 06/28/24

## 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



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### 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.)

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2433793  
**Report Date:** 06/28/24

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 103 Analysis of Extractable Petroleum Hydrocarbon Compounds (EPH) in Aqueous and Soil/Sediment/Sludge Matrices. New Jersey Department of Environmental Protection, Site Remediation Program, (Version 1.1), Document # NJDEP EPH 10/08, Revision 3, August 2010.
- 107 Alpha Analytical - In-house calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

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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, NO<sub>2</sub>, NO<sub>3</sub>.

### 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

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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**

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For a complete listing of analytes and methods, please contact your Alpha Project Manager.




RUN

 <b>NEW YORK CHAIN OF CUSTODY</b>		<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 <b>1 of 3</b>		Date Rec'd in Lab <b>6/15/24</b>		ALPHA Job # <b>L2433793</b>	
		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		<b>Project Information</b> Project Name: 145-165 Wolcott Street Project Location: 145-165 Wolcott Street Project #: 170562203 (Use Project name as Project #) <input type="checkbox"/>		<b>Deliverables</b> <input checked="" type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other	
<b>Client Information</b> Client: Langan Address: 360 West 31st Street, 8th Floor New York, NY 10001 Phone: 212.479.5400 Fax: Email: npalumbo@langan.com		Project Manager: Nicholas Palumbo ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		<b>Regulatory Requirement</b> <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		<b>Disposal Site Information</b> Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:			
These samples have been previously analyzed by Alpha <input type="checkbox"/>						<b>ANALYSIS</b>		<b>Sample Filtration</b> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <b>Preservation</b> <input type="checkbox"/> Lab to do (Please Specify below)	
<b>Other project specific requirements/comments:</b> Copy lgrose@langan.com, and DataManagement@langan.com on laboratory results *HOLD WC20 - COMP-4-9*						Group A Group B Group C Group D		Sample Specific Comments	
Please specify Metals or TAL.									
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials				
		Date	Time						
33793-01	WC03 - COMP-0-4	6/14/2024	0910	S	LC	X			
22	WC08 - COMP-0-4		1350	S	LC	X			
23	WC16 - COMP-4-9		1230	S	LC	X			
24	WC03B - GRAB-2-3		0905	S	LC		X		
25	WC03C - GRAB-7-8		1215	S	LC		X		
26	WC08B - GRAB-6-7		1245	S	LC		X		
27	WC20 - COMP-4-9		1310	S	LC	X			HOLD
28	WC08C - GRAB-2-3		1335	S	LC		X		
				S	LC				
				S	LC				
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		Please print clearly, legibly and completely. Samples 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.	
Relinquished By: Lisa Cristiano/Langan WIF1 (Pace) Anthony Green		Date/Time: 15:25 6/14 6/14/24 2000 6/15/24 0350		Received By: WIF1 (Pace) Anthony Green		Date/Time: 6/14/24 15:28 JUN 14 2024 2146 6/15/24 0150 6/15/24 0350			



HOLDS


 <b>NEW YORK CHAIN OF CUSTODY</b>		<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 <b>2 of 3</b>		Date Rec'd in Lab <b>6/15/24</b>		ALPHA Job # <b>22433793</b>	
		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		<b>Project Information</b> Project Name: 145-165 Wolcott Street Project Location: 145-165 Wolcott Street Project #: 170562203 (Use Project name as Project #) <input type="checkbox"/>		<b>Deliverables</b> <input checked="" type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other	
<b>Client Information</b> Client: Langan Address: 360 West 31st Street, 8th Floor New York, NY 10001 Phone: 212.479.5400 Fax: Email: npalumbo@langan.com		Project Manager: Nicholas Palumbo ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		<b>Regulatory Requirement</b> <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		<b>Disposal Site Information</b> Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:			
These samples have been previously analyzed by Alpha <input type="checkbox"/>						<b>ANALYSIS</b>		<b>Sample Filtration</b> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <b>Preservation</b> <input type="checkbox"/> Lab to do (Please Specify below)	
<b>Other project specific requirements/comments:</b> Copy lgrose@langan.com, and DataManagement@langan.com on laboratory results						Group A    Group B    Group C    Group D <b>Group E - HOLD</b>		o t a l B o t t l e	
<b>Please specify Metals or TAL.</b>									
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date    Time		Sample Matrix		Sampler's Initials	
33793-09 -10 -11 -12 -13 -14 -15 -16 -17 -18		WC03B-2-3 WC03A-1-2 WC03C-3-4 WC03D-2-3 WC03E-0-1 WC08A-1-2 WC08B-3-4 WC08C-2-3 WC08D-0-1 WC08E-3-4		6/14/2024 0845 0840 0850 0855 0900 1340 1342 1344 1346 1348		S S S S S S S S S S		LC LC LC LC LC LC LC LC LC LC	
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type		Preservative	
Form No: 01-25 (rev. 30-Sept-2013)		Relinquished By: Lisa Cristiano/Langan WFL (Pace) Anthony Green		Date/Time 6/14/24 15:28 6/14/24 2000 6/15/24 0350		Received By: WFL (Pace) Anthony Green		Date/Time 6/14/24 1524 JUN 14 2024 2140 6/15/24 0350	

HOLD

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.



HOLDS

 <b>NEW YORK CHAIN OF CUSTODY</b> 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		<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 <b>3 of 3</b>		Date Rec'd in Lab 6/15/24		ALPHA Job # L2433793					
		<b>Project Information</b> Project Name: 145-165 Wolcott Street Project Location: 145-165 Wolcott Street Project #: 170562203 (Use Project name as Project #) <input type="checkbox"/>				<b>Deliverables</b> <input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> Other		<input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQuIS (4 File)		<b>Billing Information</b> <input checked="" type="checkbox"/> Same as Client Info PO #			
<b>Client Information</b> Client: Langan Address: 360 West 31st Street, 8th Floor New York, NY 10001 Phone: 212.479.5400 Fax: Email: npalumbo@langan.com		Project Manager: Nicholas Palumbo ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		<b>Regulatory Requirement</b> <input type="checkbox"/> NY TOGS <input type="checkbox"/> AWQ Standards <input checked="" type="checkbox"/> NY Restricted Use <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		<input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> NY CP-51 <input type="checkbox"/> Other		<b>Disposal Site Information</b> Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:					
These samples have been previously analyzed by Alpha <input type="checkbox"/> <b>Other project specific requirements/comments:</b> Copy lgrose@langan.com, and DataManagement@langan.com on laboratory results Please specify Metals or TAL.				<b>ANALYSIS</b>		<b>Sample Filtration</b> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <b>Preservation</b> <input type="checkbox"/> Lab to do (Please Specify below)							
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date Time		Sample Matrix		Sampler's Initials		Group A Group B Group C Group D Group E - Hold		Total Bottles	
33793-19		WC03B-5-6		6/14/2024 1220		S		LC		X			
-20		WC03B-6-7		1222		S		LC		X			
-21		WC03C-4-5		1224		S		LC		X			
-22		WC03C-8-9		1226		S		LC		X		HOLD	
-23		WC03C-7-8		1230		S		LC		X			
-24		WC08A-7-8		1300		S		LC		X			
-25		WC08A-4-5		1302		S		LC		X			
-26		WC08B-5-6		1304		S		LC		X			
-27		WC08B-6-7		1306		S		LC		X			
-28		WC08A-8-9		1308		S		LC		X			
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other		Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type		Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S <b>TERMS &amp; CONDITIONS.</b>			
		Relinquished By:		Date/Time		Received By:		Date/Time					
		Lisa Cristiano/Langan		6/14/24 05:25		WFL (Pace)		6/14/24 15:28					
		WFL (Pace)		6/14/24 2000		Anthony Green		JUN 14 2024 04:16					
		Anthony Green		6/15/24 0357		[Signature]		6/15/24 0155					
		[Signature]		6/15/24 0357		[Signature]		6/15/24 0350					

145-165 Wolcott Street  
Langan Project No.: 170562203

**Sample Analysis Reference Sheet**

**Group A**

Part 375/TCL/NJDEP/PADEP SVOCs

Pesticides

Herbicides

PCBs

Part 375/TAL Metals

Hexavalent Chromium

Trivalent Chromium

Total Cyanide

TCLP Metals

RCRA Characteristics

**Group B**

Part 375/TCL VOCs, NJDEP EPH

**Group C**

Part 375/TCL/NJDEP/PADEP SVOCs

Pesticides

Herbicides

PCBs

Part 375/TAL Metals

Hexavalent Chromium

Trivalent Chromium

Total Cyanide

TCLP Metals

RCRA Characteristics

Full TCLP (Minus VOCs)

Paint Filter

**Group D**

Part 375/TCL VOCs, TCLP VOCs, NJDEP EPH

**Group E - HOLD**

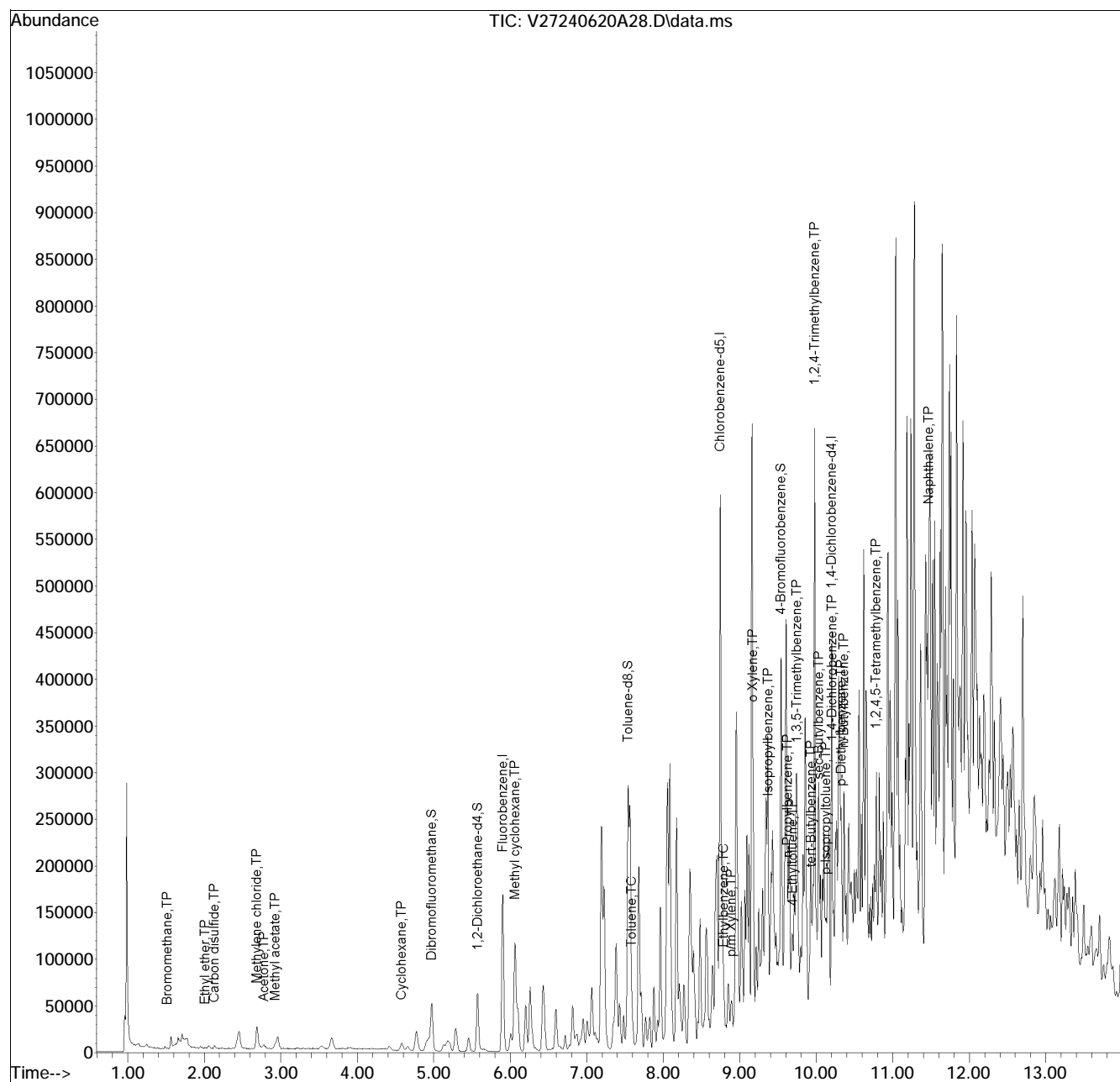
Total and TCLP Metals

## Quantitation Report (QT Reviewed)

Data Path : K:\VOA127\2024\240620A\  
 Data File : V27240620A28.D  
 Acq On : 20 Jun 2024 04:22 pm  
 Operator : VOA127:LAC  
 Sample : L2433793-04,31H,4.77,5,0.100,,A  
 Misc : WG1937140,ICAL21177  
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Jun 20 18:21:54 2024  
 Quant Method : K:\VOA127\2024\240620A\V127\_240606N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Jun 07 09:03:54 2024  
 Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox20A01.D•

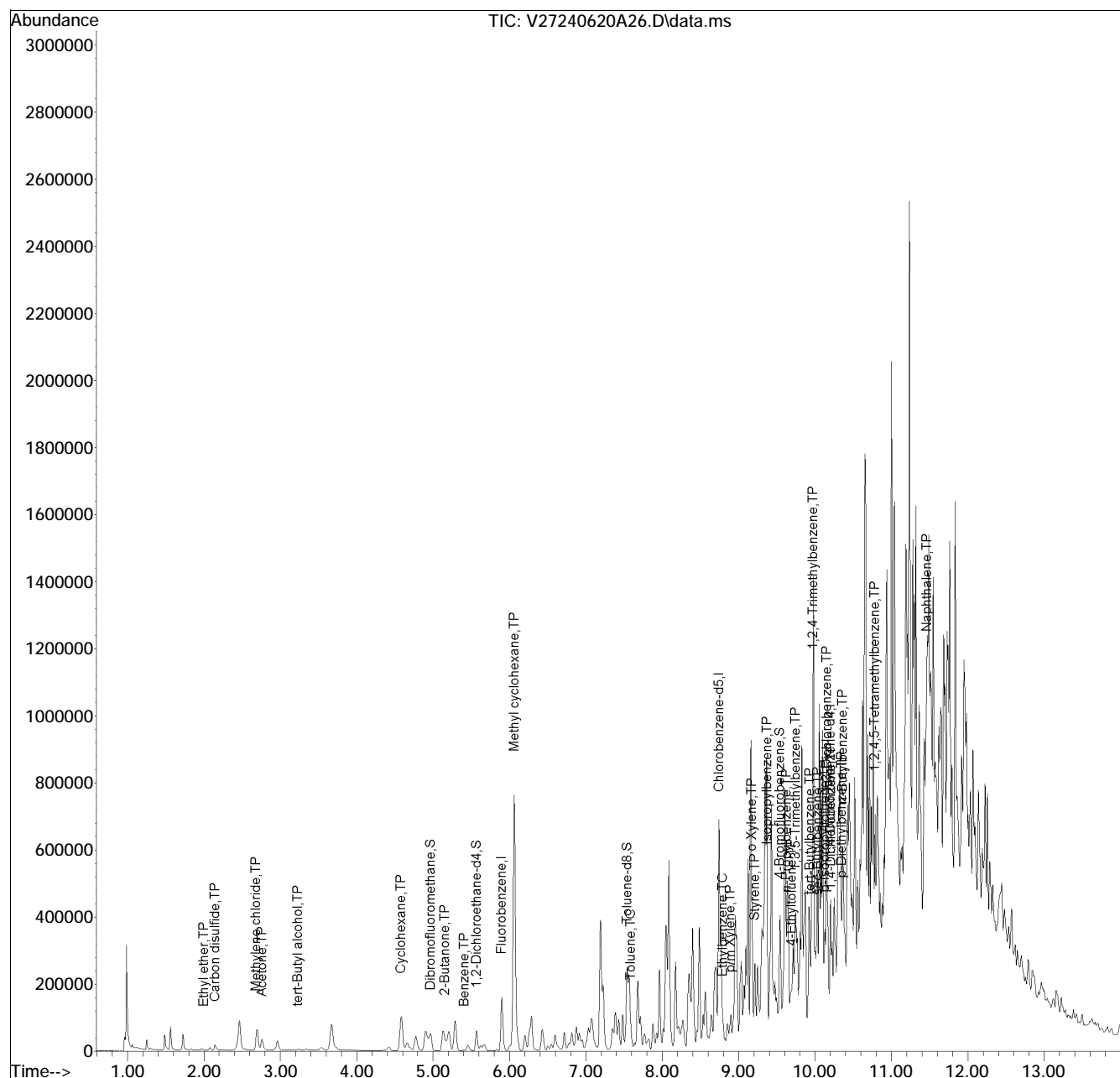


Quantitation Report (QT Reviewed)

Data Path : K:\VOA127\2024\240620A\  
 Data File : V27240620A26.D  
 Acq On : 20 Jun 2024 03:37 pm  
 Operator : VOA127:LAC  
 Sample : L2433793-06,31,4.74,5,,B  
 Misc : WG1937146,ICAL21177  
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Jun 20 18:15:12 2024  
 Quant Method : K:\VOA127\2024\240620A\V127\_240606N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Jun 07 09:03:54 2024  
 Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox20A01.D•

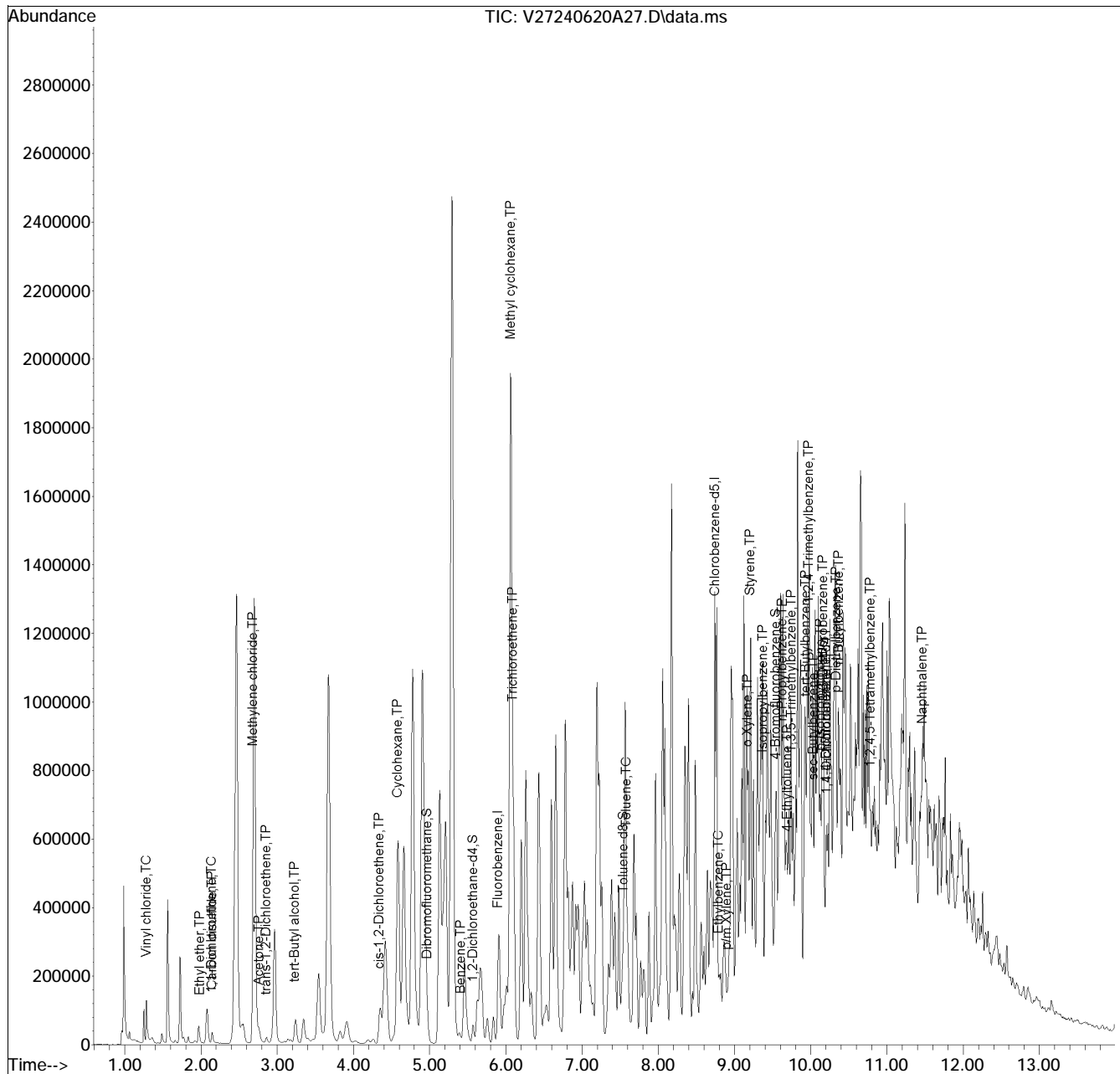


## Quantitation Report (QT Reviewed)

Data Path : K:\VOA127\2024\240620A\  
 Data File : V27240620A27.D  
 Acq On : 20 Jun 2024 04:00 pm  
 Operator : VOA127:LAC  
 Sample : L2433793-08,31,4.04,5,,B  
 Misc : WG1937146,ICAL21177  
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jun 20 18:17:31 2024  
 Quant Method : K:\VOA127\2024\240620A\V127\_240606N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Jun 07 09:03:54 2024  
 Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox20A01.D•



JOB: L2434097      REPORT STYLE: Data Usability Report  
0010: Alpha Analytical Report Cover Page - OK  
0015: Sample Cross Reference Summary - OK  
0060: Case Narrative - OK  
0100: Volatiles Cover Page - OK  
0110: Volatiles Sample Results - OK  
0120: Volatiles Method Blank Report - OK  
0130: Volatiles LCS Report - OK  
0180: Semivolatiles Cover Page - OK  
0190: Semivolatiles Sample Results - OK  
0200: Semivolatiles Method Blank Report - OK  
0210: Semivolatiles LCS Report - OK  
0400: Petroleum Cover Page - OK  
0410: Petroleum Sample Results - OK  
0420: Petroleum Method Blank Report - OK  
0430: Petroleum LCS Report - OK  
0450: Petroleum Matrix Spike Report - OK  
0460: Petroleum Duplicate Report - OK  
0700: PCBs Cover Page - OK  
0710: PCBs Sample Results - OK  
0720: PCBs Method Blank Report - OK  
0730: PCBs LCS Report - OK  
0900: Pesticides Cover Page - OK  
0910: Pesticides Sample Results - OK  
0920: Pesticides Method Blank Report - OK  
0930: Pesticides LCS Report - OK  
1005: Metals Sample Results - OK  
1010: Metals Method Blank Report - OK  
1020: Metals LCS Report - OK  
1040: Metals Matrix Spike Report - OK  
1050: Metals Duplicate Report - OK  
1180: Inorganics Cover Page - OK  
1190: Ignitability Results - OK  
1200: Wet Chemistry Sample Results - OK  
1210: Wet Chemistry Method Blank Report - OK  
1220: Wet Chemistry LCS Report - OK  
1240: Wet Chemistry Matrix Spike Report - OK  
1250: Wet Chemistry Duplicate Report - OK  
5100: Sample Receipt & Container Information Report - OK  
5200: Glossary - OK  
Too many rows. We are stopping the contents here.  
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## ANALYTICAL REPORT

Lab Number:	L2434097
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Nicholas Palumbo
Phone:	(212) 479-5435
Project Name:	145-165 WOLCOTT STREET
Project Number:	170562203
Report Date:	06/28/24

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).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)





Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2434097

Report Date: 06/28/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2434097-01	WC13D_GRAB_0-2	SOIL	145-165 WOLCOTT STREET	06/17/24 10:30	06/17/24
L2434097-02	WC13B_0-2	SOIL	145-165 WOLCOTT STREET	06/17/24 10:40	06/17/24
L2434097-03	WC13C_0-2	SOIL	145-165 WOLCOTT STREET	06/17/24 10:45	06/17/24
L2434097-04	WC13D_0-2	SOIL	145-165 WOLCOTT STREET	06/17/24 10:50	06/17/24
L2434097-05	WC13E_0-2	SOIL	145-165 WOLCOTT STREET	06/17/24 10:55	06/17/24
L2434097-06	WC13F_0-2	SOIL	145-165 WOLCOTT STREET	06/17/24 11:00	06/17/24
L2434097-07	WC13_COMP_0-4	SOIL	145-165 WOLCOTT STREET	06/17/24 11:05	06/17/24
L2434097-08	WC14A_GRAB_2-3	SOIL	145-165 WOLCOTT STREET	06/17/24 13:40	06/17/24
L2434097-09	WC14A_1-2	SOIL	145-165 WOLCOTT STREET	06/17/24 14:00	06/17/24
L2434097-10	WC14B_3-4	SOIL	145-165 WOLCOTT STREET	06/17/24 14:05	06/17/24
L2434097-11	WC14C_1-2	SOIL	145-165 WOLCOTT STREET	06/17/24 14:10	06/17/24
L2434097-12	WC14D_0-1	SOIL	145-165 WOLCOTT STREET	06/17/24 14:15	06/17/24
L2434097-13	WC14D_2-3	SOIL	145-165 WOLCOTT STREET	06/17/24 14:20	06/17/24
L2434097-14	WC14_COMP_0-4	SOIL	145-165 WOLCOTT STREET	06/17/24 14:25	06/17/24
L2434097-15	WC14A_GRAB_5-6	SOIL	145-165 WOLCOTT STREET	06/17/24 15:00	06/17/24
L2434097-16	WC14A_6-7	SOIL	145-165 WOLCOTT STREET	06/17/24 15:10	06/17/24
L2434097-17	WC14A_COMP_4-9	SOIL	145-165 WOLCOTT STREET	06/17/24 15:15	06/17/24
L2434097-18	WC14B_GRAB_7-8	SOIL	145-165 WOLCOTT STREET	06/17/24 15:30	06/17/24
L2434097-19	WC14B_7-8	SOIL	145-165 WOLCOTT STREET	06/17/24 15:35	06/17/24
L2434097-20	WC14C_4-5	SOIL	145-165 WOLCOTT STREET	06/17/24 15:40	06/17/24
L2434097-21	WC14D_5-6	SOIL	145-165 WOLCOTT STREET	06/17/24 15:45	06/17/24
L2434097-22	WC14D_6-7	SOIL	145-165 WOLCOTT STREET	06/17/24 15:50	06/17/24
L2434097-23	WC14C_8-9	SOIL	145-165 WOLCOTT STREET	06/17/24 15:55	06/17/24
L2434097-24	WC14_COMP_4-9	SOIL	145-165 WOLCOTT STREET	06/17/24 16:00	06/17/24

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

### 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:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

### Case Narrative (continued)

#### Report Submission

June 28, 2024: This preliminary report includes the results of the following analyses:

L2434097-15: Volatile Organics and NJ Extractable Petroleum Hydrocarbons (Total)

L2434097-17: Semivolatile Organics, PCBs, Pesticides, Herbicides, TCLP Metals, Trivalent Chromium, Ignitability, Total Cyanide, pH, Hexavalent Chromium, Reactive Cyanide, and Reactive Sulfide

June 24, 2024: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Sample Receipt

The analyses performed were specified by the client.

#### Volatile Organics

L2434097-15: The 2-butanone and methyl acetate results should be considered estimated due to co-elution with a non-target compound.

#### Semivolatile Organics

L2434097-17D: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix, and due to the dilution required by the matrix interferences encountered during the concentration of the sample and the analytical dilution required by the sample matrix.

L2434097-17D: The surrogate recoveries are below the acceptance criteria for 2-fluorophenol (0%), phenol-d6 (0%), nitrobenzene-d5 (0%), 2-fluorobiphenyl (0%), 2,4,6-tribromophenol (0%), and 4-terphenyl-d14 (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

### Case Narrative (continued)

#### NJ EPH (Total)

L2434097-08D and -15D: The surrogate recoveries are below the acceptance criteria for chloro-octadecane (0%) and o-terphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

L2434097-15D: The sample has an elevated detection limit due to the limited sample volume utilized during extraction, as required by the sample matrix, and due to the dilution required by the matrix interferences encountered during the concentration of the sample and the analytical dilution required by the target compounds present in the sample.

WG1938052-4 and WG1938052-5: One or more compounds failed to meet the DKQP recovery and/or RPD limits. Please refer to the QC section of the report for specific details.

WG1940029: An MS was not analyzed because the dilution required by the elevated concentrations of non-target compounds present in the native sample would have caused the spike compounds to be diluted below the range of calibration.

#### Pesticides

L2434097-17D: The sample has elevated detection limits due to the dilution required by the sample matrix.

#### Total Metals

L2434097-07, -14, -17, and -24: 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:



Kelly O'Neill

Title: Technical Director/Representative

Date: 06/28/24

# ORGANICS

# VOLATILES

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-01  
 Client ID: WC13D\_GRAB\_0-2  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 10:30  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/21/24 17:32  
 Analyst: LAC  
 Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	5.0	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	0.12	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	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.70	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.25	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.17	1
Benzene	ND		ug/kg	0.50	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	4.0	0.94	1
Bromomethane	ND		ug/kg	2.0	0.58	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

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434097

Project Number: 170562203

Report Date: 06/28/24

## SAMPLE RESULTS

Lab ID: L2434097-01  
 Client ID: WC13D\_GRAB\_0-2  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 10:30  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
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	0.56	1
o-Xylene	ND		ug/kg	1.0	0.29	1
Xylenes, Total	ND		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.92	1
Acetone	6.4	J	ug/kg	10	4.8	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	ND		ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.15	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
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	ND		ug/kg	1.0	0.11	1
p-Isopropyltoluene	ND		ug/kg	1.0	0.11	1
Naphthalene	ND		ug/kg	4.0	0.65	1
Acrylonitrile	ND		ug/kg	4.0	1.2	1
Tert-Butyl Alcohol	ND		ug/kg	20	5.2	1



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-01  
 Client ID: WC13D\_GRAB\_0-2  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 10:30  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
Methyl Acetate	ND		ug/kg	4.0	0.96	1
Acrolein	ND		ug/kg	25	5.7	1
Cyclohexane	ND		ug/kg	10	0.55	1
1,4-Dioxane	ND		ug/kg	80	35.	1
Freon-113	ND		ug/kg	4.0	0.70	1
p-Diethylbenzene	ND		ug/kg	2.0	0.18	1
p-Ethyltoluene	ND		ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1
Methyl cyclohexane	ND		ug/kg	4.0	0.61	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	100		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-08  
 Client ID: WC14A\_GRAB\_2-3  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 13:40  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/23/24 21:43  
 Analyst: JIC  
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	380	170	1
1,1-Dichloroethane	ND		ug/kg	75	11.	1
Chloroform	ND		ug/kg	110	10.	1
Carbon tetrachloride	ND		ug/kg	75	17.	1
1,2-Dichloropropane	ND		ug/kg	75	9.4	1
Dibromochloromethane	ND		ug/kg	75	10.	1
1,1,2-Trichloroethane	ND		ug/kg	75	20.	1
Tetrachloroethene	ND		ug/kg	38	15.	1
Chlorobenzene	ND		ug/kg	38	9.6	1
Trichlorofluoromethane	ND		ug/kg	300	52.	1
1,2-Dichloroethane	ND		ug/kg	75	19.	1
1,1,1-Trichloroethane	ND		ug/kg	38	13.	1
Bromodichloromethane	ND		ug/kg	38	8.2	1
trans-1,3-Dichloropropene	ND		ug/kg	75	21.	1
cis-1,3-Dichloropropene	ND		ug/kg	38	12.	1
1,3-Dichloropropene, Total	ND		ug/kg	38	12.	1
1,1-Dichloropropene	ND		ug/kg	38	12.	1
Bromoform	ND		ug/kg	300	18.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	38	12.	1
Benzene	560		ug/kg	38	12.	1
Toluene	4100		ug/kg	75	41.	1
Ethylbenzene	4700		ug/kg	75	11.	1
Chloromethane	ND		ug/kg	300	70.	1
Bromomethane	ND		ug/kg	150	44.	1
Vinyl chloride	ND		ug/kg	75	25.	1
Chloroethane	ND		ug/kg	150	34.	1
1,1-Dichloroethene	ND		ug/kg	75	18.	1
trans-1,2-Dichloroethene	ND		ug/kg	110	10.	1

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434097

Project Number: 170562203

Report Date: 06/28/24

## SAMPLE RESULTS

Lab ID: L2434097-08  
 Client ID: WC14A\_GRAB\_2-3  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 13:40  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	38	10.	1
1,2-Dichlorobenzene	ND		ug/kg	150	11.	1
1,3-Dichlorobenzene	ND		ug/kg	150	11.	1
1,4-Dichlorobenzene	ND		ug/kg	150	13.	1
Methyl tert butyl ether	ND		ug/kg	150	15.	1
p/m-Xylene	8800		ug/kg	150	42.	1
o-Xylene	3100		ug/kg	75	22.	1
Xylenes, Total	12000		ug/kg	75	22.	1
cis-1,2-Dichloroethene	ND		ug/kg	75	13.	1
Dibromomethane	ND		ug/kg	150	18.	1
Styrene	ND		ug/kg	75	15.	1
Dichlorodifluoromethane	ND		ug/kg	750	69.	1
Acetone	550	J	ug/kg	750	360	1
Carbon disulfide	ND		ug/kg	750	340	1
2-Butanone	ND		ug/kg	750	170	1
Vinyl acetate	ND		ug/kg	750	160	1
4-Methyl-2-pentanone	ND		ug/kg	750	97.	1
1,2,3-Trichloropropane	ND		ug/kg	150	9.6	1
2-Hexanone	ND		ug/kg	750	89.	1
Bromochloromethane	ND		ug/kg	150	15.	1
2,2-Dichloropropane	ND		ug/kg	150	15.	1
1,2-Dibromoethane	ND		ug/kg	75	21.	1
1,3-Dichloropropane	ND		ug/kg	150	13.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	38	10.	1
Bromobenzene	ND		ug/kg	150	11.	1
n-Butylbenzene	2000		ug/kg	75	13.	1
sec-Butylbenzene	320		ug/kg	75	11.	1
tert-Butylbenzene	ND		ug/kg	150	8.9	1
o-Chlorotoluene	ND		ug/kg	150	14.	1
p-Chlorotoluene	ND		ug/kg	150	8.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	230	75.	1
Hexachlorobutadiene	ND		ug/kg	300	13.	1
Isopropylbenzene	580		ug/kg	75	8.2	1
p-Isopropyltoluene	850		ug/kg	75	8.2	1
Naphthalene	6200		ug/kg	300	49.	1
Acrylonitrile	ND		ug/kg	300	87.	1
Tert-Butyl Alcohol	ND		ug/kg	1500	390	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-08  
 Client ID: WC14A\_GRAB\_2-3  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 13:40  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
n-Propylbenzene	2500		ug/kg	75	13.	1
1,2,3-Trichlorobenzene	ND		ug/kg	150	24.	1
1,2,4-Trichlorobenzene	ND		ug/kg	150	20.	1
1,3,5-Trimethylbenzene	19000		ug/kg	150	14.	1
1,2,4-Trimethylbenzene	5900		ug/kg	150	25.	1
Methyl Acetate	3000		ug/kg	300	72.	1
Acrolein	ND		ug/kg	1900	420	1
Cyclohexane	1500		ug/kg	750	41.	1
1,4-Dioxane	ND		ug/kg	6000	2600	1
Freon-113	ND		ug/kg	300	52.	1
p-Diethylbenzene	22000		ug/kg	150	13.	1
p-Ethyltoluene	10000		ug/kg	150	29.	1
1,2,4,5-Tetramethylbenzene	3200		ug/kg	150	14.	1
Ethyl ether	ND		ug/kg	150	26.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	380	110	1
Methyl cyclohexane	14000		ug/kg	300	46.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	128		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-15  
 Client ID: WC14A\_GRAB\_5-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 15:00  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/26/24 15:48  
 Analyst: LAC  
 Percent Solids: 67%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	660	300	1
1,1-Dichloroethane	ND		ug/kg	130	19.	1
Chloroform	ND		ug/kg	200	18.	1
Carbon tetrachloride	ND		ug/kg	130	30.	1
1,2-Dichloropropane	ND		ug/kg	130	16.	1
Dibromochloromethane	ND		ug/kg	130	18.	1
1,1,2-Trichloroethane	ND		ug/kg	130	35.	1
Tetrachloroethene	ND		ug/kg	66	26.	1
Chlorobenzene	ND		ug/kg	66	17.	1
Trichlorofluoromethane	ND		ug/kg	530	92.	1
1,2-Dichloroethane	ND		ug/kg	130	34.	1
1,1,1-Trichloroethane	ND		ug/kg	66	22.	1
Bromodichloromethane	ND		ug/kg	66	14.	1
trans-1,3-Dichloropropene	ND		ug/kg	130	36.	1
cis-1,3-Dichloropropene	ND		ug/kg	66	21.	1
1,3-Dichloropropene, Total	ND		ug/kg	66	21.	1
1,1-Dichloropropene	ND		ug/kg	66	21.	1
Bromoform	ND		ug/kg	530	32.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	66	22.	1
Benzene	3600		ug/kg	66	22.	1
Toluene	12000		ug/kg	130	72.	1
Ethylbenzene	9300		ug/kg	130	19.	1
Chloromethane	ND		ug/kg	530	120	1
Bromomethane	ND		ug/kg	260	77.	1
Vinyl chloride	ND		ug/kg	130	44.	1
Chloroethane	ND		ug/kg	260	60.	1
1,1-Dichloroethene	ND		ug/kg	130	31.	1
trans-1,2-Dichloroethene	ND		ug/kg	200	18.	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434097**Project Number:** 170562203**Report Date:** 06/28/24**SAMPLE RESULTS**

Lab ID: L2434097-15  
 Client ID: WC14A\_GRAB\_5-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 15:00  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatiles Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	66	18.	1
1,2-Dichlorobenzene	ND		ug/kg	260	19.	1
1,3-Dichlorobenzene	ND		ug/kg	260	20.	1
1,4-Dichlorobenzene	ND		ug/kg	260	22.	1
Methyl tert butyl ether	ND		ug/kg	260	26.	1
p/m-Xylene	14000		ug/kg	260	74.	1
o-Xylene	5200		ug/kg	130	38.	1
Xylenes, Total	19000		ug/kg	130	38.	1
cis-1,2-Dichloroethene	ND		ug/kg	130	23.	1
Dibromomethane	ND		ug/kg	260	31.	1
Styrene	ND		ug/kg	130	26.	1
Dichlorodifluoromethane	ND		ug/kg	1300	120	1
Acetone	1400		ug/kg	1300	640	1
Carbon disulfide	ND		ug/kg	1300	600	1
2-Butanone	2500		ug/kg	1300	290	1
Vinyl acetate	ND		ug/kg	1300	280	1
4-Methyl-2-pentanone	ND		ug/kg	1300	170	1
1,2,3-Trichloropropane	ND		ug/kg	260	17.	1
2-Hexanone	1100	J	ug/kg	1300	160	1
Bromochloromethane	ND		ug/kg	260	27.	1
2,2-Dichloropropane	ND		ug/kg	260	27.	1
1,2-Dibromoethane	ND		ug/kg	130	37.	1
1,3-Dichloropropane	ND		ug/kg	260	22.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	66	17.	1
Bromobenzene	ND		ug/kg	260	19.	1
n-Butylbenzene	2700		ug/kg	130	22.	1
sec-Butylbenzene	380		ug/kg	130	19.	1
tert-Butylbenzene	17	J	ug/kg	260	16.	1
o-Chlorotoluene	ND		ug/kg	260	25.	1
p-Chlorotoluene	ND		ug/kg	260	14.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	400	130	1
Hexachlorobutadiene	ND		ug/kg	530	22.	1
Isopropylbenzene	810		ug/kg	130	14.	1
p-Isopropyltoluene	290		ug/kg	130	14.	1
Naphthalene	12000		ug/kg	530	86.	1
Acrylonitrile	ND		ug/kg	530	150	1
Tert-Butyl Alcohol	ND		ug/kg	2600	680	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-15  
 Client ID: WC14A\_GRAB\_5-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 15:00  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
n-Propylbenzene	3700		ug/kg	130	22.	1
1,2,3-Trichlorobenzene	ND		ug/kg	260	42.	1
1,2,4-Trichlorobenzene	ND		ug/kg	260	36.	1
1,3,5-Trimethylbenzene	25000		ug/kg	260	25.	1
1,2,4-Trimethylbenzene	5600		ug/kg	260	44.	1
Methyl Acetate	34000		ug/kg	530	120	1
Acrolein	ND		ug/kg	3300	740	1
Cyclohexane	2200		ug/kg	1300	72.	1
1,4-Dioxane	ND		ug/kg	10000	4600	1
Freon-113	ND		ug/kg	530	92.	1
p-Diethylbenzene	23000		ug/kg	260	23.	1
p-Ethyltoluene	11000		ug/kg	260	51.	1
1,2,4,5-Tetramethylbenzene	3200		ug/kg	260	25.	1
Ethyl ether	49	J	ug/kg	260	45.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	660	190	1
Methyl cyclohexane	17000		ug/kg	530	80.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	100		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-18  
 Client ID: WC14B\_GRAB\_7-8  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 15:30  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/21/24 18:50  
 Analyst: LAC  
 Percent Solids: 99%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	6.0	2.8	1
1,1-Dichloroethane	ND		ug/kg	1.2	0.18	1
Chloroform	ND		ug/kg	1.8	0.17	1
Carbon tetrachloride	ND		ug/kg	1.2	0.28	1
1,2-Dichloropropane	ND		ug/kg	1.2	0.15	1
Dibromochloromethane	ND		ug/kg	1.2	0.17	1
1,1,2-Trichloroethane	ND		ug/kg	1.2	0.32	1
Tetrachloroethene	ND		ug/kg	0.60	0.24	1
Chlorobenzene	ND		ug/kg	0.60	0.15	1
Trichlorofluoromethane	ND		ug/kg	4.8	0.84	1
1,2-Dichloroethane	ND		ug/kg	1.2	0.31	1
1,1,1-Trichloroethane	ND		ug/kg	0.60	0.20	1
Bromodichloromethane	ND		ug/kg	0.60	0.13	1
trans-1,3-Dichloropropene	ND		ug/kg	1.2	0.33	1
cis-1,3-Dichloropropene	ND		ug/kg	0.60	0.19	1
1,3-Dichloropropene, Total	ND		ug/kg	0.60	0.19	1
1,1-Dichloropropene	ND		ug/kg	0.60	0.19	1
Bromoform	ND		ug/kg	4.8	0.30	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.60	0.20	1
Benzene	ND		ug/kg	0.60	0.20	1
Toluene	ND		ug/kg	1.2	0.66	1
Ethylbenzene	ND		ug/kg	1.2	0.17	1
Chloromethane	ND		ug/kg	4.8	1.1	1
Bromomethane	ND		ug/kg	2.4	0.70	1
Vinyl chloride	ND		ug/kg	1.2	0.40	1
Chloroethane	ND		ug/kg	2.4	0.55	1
1,1-Dichloroethene	ND		ug/kg	1.2	0.29	1
trans-1,2-Dichloroethene	ND		ug/kg	1.8	0.16	1



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434097

Project Number: 170562203

Report Date: 06/28/24

## SAMPLE RESULTS

Lab ID: L2434097-18  
 Client ID: WC14B\_GRAB\_7-8  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 15:30  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.60	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.4	0.17	1
1,3-Dichlorobenzene	ND		ug/kg	2.4	0.18	1
1,4-Dichlorobenzene	ND		ug/kg	2.4	0.21	1
Methyl tert butyl ether	ND		ug/kg	2.4	0.24	1
p/m-Xylene	ND		ug/kg	2.4	0.68	1
o-Xylene	ND		ug/kg	1.2	0.35	1
Xylenes, Total	ND		ug/kg	1.2	0.35	1
cis-1,2-Dichloroethene	ND		ug/kg	1.2	0.21	1
Dibromomethane	ND		ug/kg	2.4	0.29	1
Styrene	ND		ug/kg	1.2	0.24	1
Dichlorodifluoromethane	ND		ug/kg	12	1.1	1
Acetone	8.4	J	ug/kg	12	5.8	1
Carbon disulfide	ND		ug/kg	12	5.5	1
2-Butanone	ND		ug/kg	12	2.7	1
Vinyl acetate	ND		ug/kg	12	2.6	1
4-Methyl-2-pentanone	ND		ug/kg	12	1.6	1
1,2,3-Trichloropropane	ND		ug/kg	2.4	0.15	1
2-Hexanone	ND		ug/kg	12	1.4	1
Bromochloromethane	ND		ug/kg	2.4	0.25	1
2,2-Dichloropropane	ND		ug/kg	2.4	0.24	1
1,2-Dibromoethane	ND		ug/kg	1.2	0.34	1
1,3-Dichloropropane	ND		ug/kg	2.4	0.20	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.60	0.16	1
Bromobenzene	ND		ug/kg	2.4	0.18	1
n-Butylbenzene	0.52	J	ug/kg	1.2	0.20	1
sec-Butylbenzene	0.18	J	ug/kg	1.2	0.18	1
tert-Butylbenzene	ND		ug/kg	2.4	0.14	1
o-Chlorotoluene	ND		ug/kg	2.4	0.23	1
p-Chlorotoluene	ND		ug/kg	2.4	0.13	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.6	1.2	1
Hexachlorobutadiene	ND		ug/kg	4.8	0.20	1
Isopropylbenzene	ND		ug/kg	1.2	0.13	1
p-Isopropyltoluene	ND		ug/kg	1.2	0.13	1
Naphthalene	1.0	J	ug/kg	4.8	0.79	1
Acrylonitrile	ND		ug/kg	4.8	1.4	1
Tert-Butyl Alcohol	ND		ug/kg	24	6.2	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2434097-18  
**Client ID:** WC14B\_GRAB\_7-8  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/17/24 15:30  
**Date Received:** 06/17/24  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	1.2	0.21	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.4	0.39	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.4	0.33	1
1,3,5-Trimethylbenzene	1.0	J	ug/kg	2.4	0.23	1
1,2,4-Trimethylbenzene	0.42	J	ug/kg	2.4	0.40	1
Methyl Acetate	ND		ug/kg	4.8	1.2	1
Acrolein	ND		ug/kg	30	6.8	1
Cyclohexane	ND		ug/kg	12	0.66	1
1,4-Dioxane	ND		ug/kg	97	42.	1
Freon-113	ND		ug/kg	4.8	0.84	1
p-Diethylbenzene	0.92	J	ug/kg	2.4	0.21	1
p-Ethyltoluene	ND		ug/kg	2.4	0.46	1
1,2,4,5-Tetramethylbenzene	1.7	J	ug/kg	2.4	0.23	1
Ethyl ether	ND		ug/kg	2.4	0.41	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	6.0	1.7	1
Methyl cyclohexane	0.76	J	ug/kg	4.8	0.73	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	101		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/21/24 09:01  
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,18 Batch: WG1937690-5					
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
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-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

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/21/24 09:01  
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,18 Batch: WG1937690-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
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
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Dibromomethane	ND		ug/kg	2.0	0.24
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
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
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
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/21/24 09:01  
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,18 Batch: WG1937690-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
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
Acrylonitrile	ND		ug/kg	4.0	1.2
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
Acrolein	ND		ug/kg	25	5.6
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Methyl cyclohexane	ND		ug/kg	4.0	0.60

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/21/24 09:01  
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,18 Batch: WG1937690-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	94		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/23/24 15:40  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 08 Batch: WG1938508-5					
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
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
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	ND		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

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/23/24 15:40  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 08 Batch: WG1938508-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
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.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Dibromomethane	ND		ug/kg	100	12.
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
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6
p-Chlorotoluene	ND		ug/kg	100	5.4



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/23/24 15:40  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 08 Batch: WG1938508-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
Tert-Butyl Alcohol	ND		ug/kg	1000	260
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
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.
Acrolein	ND		ug/kg	1200	280
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.
Methyl cyclohexane	ND		ug/kg	200	30.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/23/24 15:40  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 08 Batch: WG1938508-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	112		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	94		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/26/24 10:07  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 15 Batch: WG1940145-5					
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
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
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	ND		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

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D  
Analytical Date: 06/26/24 10:07  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 15 Batch: WG1940145-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
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.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Dibromomethane	ND		ug/kg	100	12.
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
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6
p-Chlorotoluene	ND		ug/kg	100	5.4

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/26/24 10:07  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 15 Batch: WG1940145-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
Tert-Butyl Alcohol	ND		ug/kg	1000	260
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
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.
Acrolein	ND		ug/kg	1200	280
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	36	J	ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.
Methyl cyclohexane	ND		ug/kg	200	30.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/26/24 10:07  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 15 Batch: WG1940145-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	99		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434097

Project Number: 170562203

Report Date: 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,18 Batch: WG1937690-3 WG1937690-4								
Methylene chloride	99		92		70-130	7		30
1,1-Dichloroethane	103		98		70-130	5		30
Chloroform	95		90		70-130	5		30
Carbon tetrachloride	99		92		70-130	7		30
1,2-Dichloropropane	103		99		70-130	4		30
Dibromochloromethane	97		97		70-130	0		30
1,1,2-Trichloroethane	94		94		70-130	0		30
Tetrachloroethene	106		102		70-130	4		30
Chlorobenzene	106		103		70-130	3		30
Trichlorofluoromethane	108		98		70-139	10		30
1,2-Dichloroethane	92		92		70-130	0		30
1,1,1-Trichloroethane	100		94		70-130	6		30
Bromodichloromethane	91		89		70-130	2		30
trans-1,3-Dichloropropene	102		101		70-130	1		30
cis-1,3-Dichloropropene	97		97		70-130	0		30
1,1-Dichloropropene	106		101		70-130	5		30
Bromoform	92		92		70-130	0		30
1,1,2,2-Tetrachloroethane	96		98		70-130	2		30
Benzene	105		100		70-130	5		30
Toluene	107		101		70-130	6		30
Ethylbenzene	106		101		70-130	5		30
Chloromethane	92		82		52-130	11		30
Bromomethane	127		114		57-147	11		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2434097

**Project Number:** 170562203

**Report Date:** 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,18 Batch: WG1937690-3 WG1937690-4								
Vinyl chloride	119		105		67-130	13		30
Chloroethane	124		112		50-151	10		30
1,1-Dichloroethene	105		95		65-135	10		30
trans-1,2-Dichloroethene	103		95		70-130	8		30
Trichloroethene	97		94		70-130	3		30
1,2-Dichlorobenzene	106		103		70-130	3		30
1,3-Dichlorobenzene	110		106		70-130	4		30
1,4-Dichlorobenzene	107		105		70-130	2		30
Methyl tert butyl ether	93		91		66-130	2		30
p/m-Xylene	107		103		70-130	4		30
o-Xylene	104		102		70-130	2		30
cis-1,2-Dichloroethene	96		95		70-130	1		30
Dibromomethane	91		92		70-130	1		30
Styrene	106		104		70-130	2		30
Dichlorodifluoromethane	102		91		30-146	11		30
Acetone	83		81		54-140	2		30
Carbon disulfide	106		95		59-130	11		30
2-Butanone	83		84		70-130	1		30
Vinyl acetate	100		92		70-130	8		30
4-Methyl-2-pentanone	103		103		70-130	0		30
1,2,3-Trichloropropane	95		97		68-130	2		30
2-Hexanone	88		90		70-130	2		30
Bromochloromethane	96		94		70-130	2		30



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,18 Batch: WG1937690-3 WG1937690-4								
2,2-Dichloropropane	100		94		70-130	6		30
1,2-Dibromoethane	93		93		70-130	0		30
1,3-Dichloropropane	100		100		69-130	0		30
1,1,1,2-Tetrachloroethane	97		94		70-130	3		30
Bromobenzene	100		103		70-130	3		30
n-Butylbenzene	118		114		70-130	3		30
sec-Butylbenzene	111		107		70-130	4		30
tert-Butylbenzene	109		104		70-130	5		30
o-Chlorotoluene	104		102		70-130	2		30
p-Chlorotoluene	103		103		70-130	0		30
1,2-Dibromo-3-chloropropane	91		94		68-130	3		30
Hexachlorobutadiene	121		115		67-130	5		30
Isopropylbenzene	110		105		70-130	5		30
p-Isopropyltoluene	114		110		70-130	4		30
Naphthalene	101		102		70-130	1		30
Acrylonitrile	90		90		70-130	0		30
Tert-Butyl Alcohol	97		100		70-130	3		30
n-Propylbenzene	109		108		70-130	1		30
1,2,3-Trichlorobenzene	109		108		70-130	1		30
1,2,4-Trichlorobenzene	120		118		70-130	2		30
1,3,5-Trimethylbenzene	107		105		70-130	2		30
1,2,4-Trimethylbenzene	109		106		70-130	3		30
Methyl Acetate	79		78		51-146	1		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,18 Batch: WG1937690-3 WG1937690-4								
Acrolein	151	Q	139	Q	70-130	8		30
Cyclohexane	108		101		59-142	7		30
1,4-Dioxane	114		114		65-136	0		30
Freon-113	113		102		50-139	10		30
p-Diethylbenzene	116		111		70-130	4		30
p-Ethyltoluene	108		107		70-130	1		30
1,2,4,5-Tetramethylbenzene	112		108		70-130	4		30
Ethyl ether	98		94		67-130	4		30
trans-1,4-Dichloro-2-butene	94		96		70-130	2		30
Methyl cyclohexane	105		99		70-130	6		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	89		89		70-130
Toluene-d8	99		99		70-130
4-Bromofluorobenzene	91		97		70-130
Dibromofluoromethane	94		92		70-130

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 08 Batch: WG1938508-3 WG1938508-4								
Methylene chloride	95		95		70-130	0		30
1,1-Dichloroethane	101		104		70-130	3		30
Chloroform	106		108		70-130	2		30
Carbon tetrachloride	102		103		70-130	1		30
1,2-Dichloropropane	112		116		70-130	4		30
Dibromochloromethane	95		97		70-130	2		30
1,1,2-Trichloroethane	103		106		70-130	3		30
Tetrachloroethene	108		108		70-130	0		30
Chlorobenzene	104		107		70-130	3		30
Trichlorofluoromethane	113		114		70-139	1		30
1,2-Dichloroethane	109		112		70-130	3		30
1,1,1-Trichloroethane	104		108		70-130	4		30
Bromodichloromethane	98		102		70-130	4		30
trans-1,3-Dichloropropene	102		106		70-130	4		30
cis-1,3-Dichloropropene	104		109		70-130	5		30
1,1-Dichloropropene	110		112		70-130	2		30
Bromoform	87		91		70-130	4		30
1,1,2,2-Tetrachloroethane	96		100		70-130	4		30
Benzene	108		111		70-130	3		30
Toluene	107		108		70-130	1		30
Ethylbenzene	105		108		70-130	3		30
Chloromethane	157	Q	156	Q	52-130	1		30
Bromomethane	126		123		57-147	2		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2434097

**Report Date:** 06/28/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 08 Batch: WG1938508-3 WG1938508-4								
Vinyl chloride	124		123		67-130	1		30
Chloroethane	112		116		50-151	4		30
1,1-Dichloroethene	100		101		65-135	1		30
trans-1,2-Dichloroethene	100		104		70-130	4		30
Trichloroethene	102		107		70-130	5		30
1,2-Dichlorobenzene	99		101		70-130	2		30
1,3-Dichlorobenzene	101		103		70-130	2		30
1,4-Dichlorobenzene	99		102		70-130	3		30
Methyl tert butyl ether	97		99		66-130	2		30
p/m-Xylene	106		108		70-130	2		30
o-Xylene	104		106		70-130	2		30
cis-1,2-Dichloroethene	99		100		70-130	1		30
Dibromomethane	99		102		70-130	3		30
Styrene	103		105		70-130	2		30
Dichlorodifluoromethane	130		131		30-146	1		30
Acetone	119		125		54-140	5		30
Carbon disulfide	110		112		59-130	2		30
2-Butanone	115		122		70-130	6		30
Vinyl acetate	117		112		70-130	4		30
4-Methyl-2-pentanone	99		105		70-130	6		30
1,2,3-Trichloropropane	98		103		68-130	5		30
2-Hexanone	100		107		70-130	7		30
Bromochloromethane	99		103		70-130	4		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 08 Batch: WG1938508-3 WG1938508-4								
2,2-Dichloropropane	108		111		70-130	3		30
1,2-Dibromoethane	100		103		70-130	3		30
1,3-Dichloropropane	106		109		69-130	3		30
1,1,1,2-Tetrachloroethane	98		100		70-130	2		30
Bromobenzene	97		101		70-130	4		30
n-Butylbenzene	108		110		70-130	2		30
sec-Butylbenzene	104		107		70-130	3		30
tert-Butylbenzene	101		103		70-130	2		30
o-Chlorotoluene	119		124		70-130	4		30
p-Chlorotoluene	103		106		70-130	3		30
1,2-Dibromo-3-chloropropane	82		86		68-130	5		30
Hexachlorobutadiene	101		104		67-130	3		30
Isopropylbenzene	103		105		70-130	2		30
p-Isopropyltoluene	103		104		70-130	1		30
Naphthalene	89		93		70-130	4		30
Acrylonitrile	122		119		70-130	2		30
Tert-Butyl Alcohol	98		104		70-130	6		30
n-Propylbenzene	106		108		70-130	2		30
1,2,3-Trichlorobenzene	95		99		70-130	4		30
1,2,4-Trichlorobenzene	97		100		70-130	3		30
1,3,5-Trimethylbenzene	103		106		70-130	3		30
1,2,4-Trimethylbenzene	101		104		70-130	3		30
Methyl Acetate	121		125		51-146	3		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 08 Batch: WG1938508-3 WG1938508-4								
Acrolein	121		121		70-130	0		30
Cyclohexane	123		126		59-142	2		30
1,4-Dioxane	108		117		65-136	8		30
Freon-113	110		112		50-139	2		30
p-Diethylbenzene	104		105		70-130	1		30
p-Ethyltoluene	104		107		70-130	3		30
1,2,4,5-Tetramethylbenzene	97		99		70-130	2		30
Ethyl ether	96		98		67-130	2		30
trans-1,4-Dichloro-2-butene	98		104		70-130	6		30
Methyl cyclohexane	106		108		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	107		107		70-130
Toluene-d8	104		101		70-130
4-Bromofluorobenzene	99		100		70-130
Dibromofluoromethane	102		101		70-130



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434097

Project Number: 170562203

Report Date: 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15 Batch: WG1940145-3 WG1940145-4								
Methylene chloride	108		108		70-130	0		30
1,1-Dichloroethane	113		109		70-130	4		30
Chloroform	106		105		70-130	1		30
Carbon tetrachloride	109		106		70-130	3		30
1,2-Dichloropropane	106		106		70-130	0		30
Dibromochloromethane	91		93		70-130	2		30
1,1,2-Trichloroethane	98		102		70-130	4		30
Tetrachloroethene	113		109		70-130	4		30
Chlorobenzene	104		103		70-130	1		30
Trichlorofluoromethane	121		116		70-139	4		30
1,2-Dichloroethane	98		101		70-130	3		30
1,1,1-Trichloroethane	107		104		70-130	3		30
Bromodichloromethane	97		97		70-130	0		30
trans-1,3-Dichloropropene	96		98		70-130	2		30
cis-1,3-Dichloropropene	100		101		70-130	1		30
1,1-Dichloropropene	114		111		70-130	3		30
Bromoform	82		88		70-130	7		30
1,1,2,2-Tetrachloroethane	89		93		70-130	4		30
Benzene	108		106		70-130	2		30
Toluene	102		101		70-130	1		30
Ethylbenzene	109		106		70-130	3		30
Chloromethane	125		116		52-130	7		30
Bromomethane	126		125		57-147	1		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2434097

**Project Number:** 170562203

**Report Date:** 06/28/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15 Batch: WG1940145-3 WG1940145-4								
Vinyl chloride	128		120		67-130	6		30
Chloroethane	132		128		50-151	3		30
1,1-Dichloroethene	116		111		65-135	4		30
trans-1,2-Dichloroethene	110		106		70-130	4		30
Trichloroethene	112		110		70-130	2		30
1,2-Dichlorobenzene	103		103		70-130	0		30
1,3-Dichlorobenzene	106		106		70-130	0		30
1,4-Dichlorobenzene	106		105		70-130	1		30
Methyl tert butyl ether	95		99		66-130	4		30
p/m-Xylene	110		108		70-130	2		30
o-Xylene	108		106		70-130	2		30
cis-1,2-Dichloroethene	107		104		70-130	3		30
Dibromomethane	93		99		70-130	6		30
Styrene	106		106		70-130	0		30
Dichlorodifluoromethane	120		112		30-146	7		30
Acetone	90		105		54-140	15		30
Carbon disulfide	121		117		59-130	3		30
2-Butanone	82		93		70-130	13		30
Vinyl acetate	90		92		70-130	2		30
4-Methyl-2-pentanone	81		91		70-130	12		30
1,2,3-Trichloropropane	90		98		68-130	9		30
2-Hexanone	77		86		70-130	11		30
Bromochloromethane	102		102		70-130	0		30



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15 Batch: WG1940145-3 WG1940145-4								
2,2-Dichloropropane	106		104		70-130	2		30
1,2-Dibromoethane	91		96		70-130	5		30
1,3-Dichloropropane	98		102		69-130	4		30
1,1,1,2-Tetrachloroethane	100		100		70-130	0		30
Bromobenzene	100		99		70-130	1		30
n-Butylbenzene	122		117		70-130	4		30
sec-Butylbenzene	116		111		70-130	4		30
tert-Butylbenzene	112		106		70-130	6		30
o-Chlorotoluene	111		107		70-130	4		30
p-Chlorotoluene	108		106		70-130	2		30
1,2-Dibromo-3-chloropropane	75		86		68-130	14		30
Hexachlorobutadiene	119		114		67-130	4		30
Isopropylbenzene	111		106		70-130	5		30
p-Isopropyltoluene	115		110		70-130	4		30
Naphthalene	91		97		70-130	6		30
Acrylonitrile	95		98		70-130	3		30
Tert-Butyl Alcohol	73		85		70-130	15		30
n-Propylbenzene	114		110		70-130	4		30
1,2,3-Trichlorobenzene	105		108		70-130	3		30
1,2,4-Trichlorobenzene	110		109		70-130	1		30
1,3,5-Trimethylbenzene	110		107		70-130	3		30
1,2,4-Trimethylbenzene	109		107		70-130	2		30
Methyl Acetate	101		110		51-146	9		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15 Batch: WG1940145-3 WG1940145-4								
Acrolein	227	Q	244	Q	70-130	7		30
Cyclohexane	122		116		59-142	5		30
1,4-Dioxane	76		89		65-136	16		30
Freon-113	124		118		50-139	5		30
p-Diethylbenzene	115		111		70-130	4		30
p-Ethyltoluene	114		109		70-130	4		30
1,2,4,5-Tetramethylbenzene	108		105		70-130	3		30
Ethyl ether	103		104		67-130	1		30
trans-1,4-Dichloro-2-butene	86		91		70-130	6		30
Methyl cyclohexane	122		116		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		100		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	94		94		70-130
Dibromofluoromethane	98		100		70-130



# SEMIVOLATILES

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-07  
 Client ID: WC13\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 11:05  
 Date Received: 06/17/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/24/24 14:17  
 Analyst: ALS  
 Percent Solids: 86%

Extraction Method: EPA 3546  
 Extraction Date: 06/23/24 10:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	150		ug/kg	150	20.	1
Benzidine	ND		ug/kg	620	200	1
1,2,4-Trichlorobenzene	ND		ug/kg	190	22.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Bis(2-chloroethyl)ether	ND		ug/kg	170	26.	1
2-Chloronaphthalene	ND		ug/kg	190	19.	1
1,2-Dichlorobenzene	ND		ug/kg	190	34.	1
1,3-Dichlorobenzene	ND		ug/kg	190	33.	1
1,4-Dichlorobenzene	ND		ug/kg	190	33.	1
3,3'-Dichlorobenzidine	ND		ug/kg	190	50.	1
2,4-Dinitrotoluene	ND		ug/kg	190	38.	1
2,6-Dinitrotoluene	ND		ug/kg	190	32.	1
Azobenzene	ND		ug/kg	190	18.	1
Fluoranthene	3200		ug/kg	110	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	190	20.	1
4-Bromophenyl phenyl ether	ND		ug/kg	190	29.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	32.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	200	19.	1
Hexachlorobutadiene	ND		ug/kg	190	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	540	170	1
Hexachloroethane	ND		ug/kg	150	31.	1
Isophorone	ND		ug/kg	170	25.	1
Naphthalene	320		ug/kg	190	23.	1
Nitrobenzene	ND		ug/kg	170	28.	1
NDPA/DPA	ND		ug/kg	150	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	190	29.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	190	66.	1
Butyl benzyl phthalate	ND		ug/kg	190	48.	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434097**Project Number:** 170562203**Report Date:** 06/28/24**SAMPLE RESULTS**

Lab ID: L2434097-07  
 Client ID: WC13\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 11:05  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Di-n-butylphthalate	ND		ug/kg	190	36.	1
Di-n-octylphthalate	ND		ug/kg	190	64.	1
Diethyl phthalate	ND		ug/kg	190	18.	1
Dimethyl phthalate	ND		ug/kg	190	40.	1
Benzo(a)anthracene	2200		ug/kg	110	21.	1
Benzo(a)pyrene	2700		ug/kg	150	46.	1
Benzo(b)fluoranthene	2700		ug/kg	110	32.	1
Benzo(k)fluoranthene	690		ug/kg	110	30.	1
Chrysene	2000		ug/kg	110	20.	1
Acenaphthylene	290		ug/kg	150	29.	1
Anthracene	710		ug/kg	110	37.	1
Benzo(ghi)perylene	3600		ug/kg	150	22.	1
Fluorene	180	J	ug/kg	190	18.	1
Phenanthrene	2100		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	1400		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	1800		ug/kg	150	26.	1
Pyrene	3000		ug/kg	110	19.	1
Biphenyl	49	J	ug/kg	430	25.	1
4-Chloroaniline	ND		ug/kg	190	34.	1
2-Nitroaniline	ND		ug/kg	190	36.	1
3-Nitroaniline	ND		ug/kg	190	36.	1
4-Nitroaniline	ND		ug/kg	190	78.	1
Dibenzofuran	190		ug/kg	190	18.	1
2-Methylnaphthalene	220	J	ug/kg	230	23.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	190	20.	1
Acetophenone	ND		ug/kg	190	23.	1
n-Nitrosodimethylamine	ND		ug/kg	380	36.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	36.	1
p-Chloro-m-cresol	ND		ug/kg	190	28.	1
2-Chlorophenol	ND		ug/kg	190	22.	1
2,4-Dichlorophenol	ND		ug/kg	170	30.	1
2,4-Dimethylphenol	ND		ug/kg	190	62.	1
2-Nitrophenol	ND		ug/kg	410	71.	1
4-Nitrophenol	ND		ug/kg	260	77.	1
2,4-Dinitrophenol	ND		ug/kg	910	88.	1
4,6-Dinitro-o-cresol	ND		ug/kg	490	91.	1
Pentachlorophenol	ND		ug/kg	150	42.	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-07  
 Client ID: WC13\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 11:05  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	38	J	ug/kg	270	30.	1
2,4,5-Trichlorophenol	ND		ug/kg	190	36.	1
Benzoic Acid	ND		ug/kg	610	190	1
Benzyl Alcohol	ND		ug/kg	190	58.	1
Carbazole	190		ug/kg	190	18.	1
Atrazine	ND		ug/kg	150	66.	1
Benzaldehyde	ND		ug/kg	250	51.	1
Caprolactam	ND		ug/kg	190	58.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	190	38.	1
1,4-Dioxane	ND		ug/kg	28	8.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	70		10-120
Nitrobenzene-d5	84		23-120
2-Fluorobiphenyl	64		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	80		18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-14  
 Client ID: WC14\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 14:25  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/24/24 14:40  
 Analyst: ALS  
 Percent Solids: 93%

Extraction Method: EPA 3546  
 Extraction Date: 06/23/24 10:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	49	J	ug/kg	140	18.	1
Benzidine	ND		ug/kg	590	190	1
1,2,4-Trichlorobenzene	ND		ug/kg	180	20.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Bis(2-chloroethyl)ether	ND		ug/kg	160	24.	1
2-Chloronaphthalene	ND		ug/kg	180	18.	1
1,2-Dichlorobenzene	ND		ug/kg	180	32.	1
1,3-Dichlorobenzene	ND		ug/kg	180	30.	1
1,4-Dichlorobenzene	ND		ug/kg	180	31.	1
3,3'-Dichlorobenzidine	ND		ug/kg	180	47.	1
2,4-Dinitrotoluene	ND		ug/kg	180	36.	1
2,6-Dinitrotoluene	ND		ug/kg	180	30.	1
Azobenzene	ND		ug/kg	180	17.	1
Fluoranthene	830		ug/kg	110	20.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	180	19.	1
4-Bromophenyl phenyl ether	ND		ug/kg	180	27.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	210	30.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	190	18.	1
Hexachlorobutadiene	ND		ug/kg	180	26.	1
Hexachlorocyclopentadiene	ND		ug/kg	510	160	1
Hexachloroethane	ND		ug/kg	140	29.	1
Isophorone	ND		ug/kg	160	23.	1
Naphthalene	72	J	ug/kg	180	22.	1
Nitrobenzene	ND		ug/kg	160	26.	1
NDPA/DPA	ND		ug/kg	140	20.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	180	27.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	180	61.	1
Butyl benzyl phthalate	ND		ug/kg	180	45.	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434097**Project Number:** 170562203**Report Date:** 06/28/24**SAMPLE RESULTS**

Lab ID: L2434097-14  
 Client ID: WC14\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 14:25  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Di-n-butylphthalate	ND		ug/kg	180	34.	1
Di-n-octylphthalate	ND		ug/kg	180	60.	1
Diethyl phthalate	ND		ug/kg	180	16.	1
Dimethyl phthalate	ND		ug/kg	180	37.	1
Benzo(a)anthracene	730		ug/kg	110	20.	1
Benzo(a)pyrene	1400		ug/kg	140	43.	1
Benzo(b)fluoranthene	1000		ug/kg	110	30.	1
Benzo(k)fluoranthene	260		ug/kg	110	28.	1
Chrysene	870		ug/kg	110	18.	1
Acenaphthylene	37	J	ug/kg	140	27.	1
Anthracene	160		ug/kg	110	35.	1
Benzo(ghi)perylene	1900		ug/kg	140	21.	1
Fluorene	57	J	ug/kg	180	17.	1
Phenanthrene	550		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	880		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	810		ug/kg	140	25.	1
Pyrene	800		ug/kg	110	18.	1
Biphenyl	ND		ug/kg	400	23.	1
4-Chloroaniline	ND		ug/kg	180	32.	1
2-Nitroaniline	ND		ug/kg	180	34.	1
3-Nitroaniline	ND		ug/kg	180	34.	1
4-Nitroaniline	ND		ug/kg	180	74.	1
Dibenzofuran	36	J	ug/kg	180	17.	1
2-Methylnaphthalene	46	J	ug/kg	210	21.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	180	18.	1
Acetophenone	ND		ug/kg	180	22.	1
n-Nitrosodimethylamine	ND		ug/kg	360	34.	1
2,4,6-Trichlorophenol	ND		ug/kg	110	34.	1
p-Chloro-m-cresol	ND		ug/kg	180	26.	1
2-Chlorophenol	ND		ug/kg	180	21.	1
2,4-Dichlorophenol	ND		ug/kg	160	28.	1
2,4-Dimethylphenol	ND		ug/kg	180	59.	1
2-Nitrophenol	ND		ug/kg	380	67.	1
4-Nitrophenol	ND		ug/kg	250	72.	1
2,4-Dinitrophenol	ND		ug/kg	850	83.	1
4,6-Dinitro-o-cresol	ND		ug/kg	460	85.	1
Pentachlorophenol	ND		ug/kg	140	39.	1



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-14  
 Client ID: WC14\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 14:25  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1
2,4,5-Trichlorophenol	ND		ug/kg	180	34.	1
Benzoic Acid	ND		ug/kg	580	180	1
Benzyl Alcohol	ND		ug/kg	180	54.	1
Carbazole	77	J	ug/kg	180	17.	1
Atrazine	ND		ug/kg	140	62.	1
Benzaldehyde	ND		ug/kg	230	48.	1
Caprolactam	ND		ug/kg	180	54.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	180	36.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	74		25-120
Phenol-d6	76		10-120
Nitrobenzene-d5	82		23-120
2-Fluorobiphenyl	55		30-120
2,4,6-Tribromophenol	74		10-136
4-Terphenyl-d14	66		18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-17 D  
 Client ID: WC14A\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 15:15  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/28/24 16:15  
 Analyst: JG  
 Percent Solids: 73%

Extraction Method: EPA 3546  
 Extraction Date: 06/27/24 19:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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## Semivolatile Organics by GC/MS - Westborough Lab

Acenaphthene	ND		ug/kg	220000	28000	400
Benzidine	ND		ug/kg	900000	290000	400
1,2,4-Trichlorobenzene	ND		ug/kg	270000	31000	400
Hexachlorobenzene	ND		ug/kg	160000	30000	400
Bis(2-chloroethyl)ether	ND		ug/kg	240000	37000	400
2-Chloronaphthalene	ND		ug/kg	270000	27000	400
1,2-Dichlorobenzene	ND		ug/kg	270000	49000	400
1,3-Dichlorobenzene	ND		ug/kg	270000	47000	400
1,4-Dichlorobenzene	ND		ug/kg	270000	47000	400
3,3'-Dichlorobenzidine	ND		ug/kg	270000	72000	400
2,4-Dinitrotoluene	ND		ug/kg	270000	54000	400
2,6-Dinitrotoluene	ND		ug/kg	270000	46000	400
Azobenzene	ND		ug/kg	270000	26000	400
Fluoranthene	120000	J	ug/kg	160000	31000	400
4-Chlorophenyl phenyl ether	ND		ug/kg	270000	29000	400
4-Bromophenyl phenyl ether	ND		ug/kg	270000	41000	400
Bis(2-chloroisopropyl)ether	ND		ug/kg	320000	46000	400
Bis(2-chloroethoxy)methane	ND		ug/kg	290000	27000	400
Hexachlorobutadiene	ND		ug/kg	270000	40000	400
Hexachlorocyclopentadiene	ND		ug/kg	780000	240000	400
Hexachloroethane	ND		ug/kg	220000	44000	400
Isophorone	ND		ug/kg	240000	35000	400
Naphthalene	55000	J	ug/kg	270000	33000	400
Nitrobenzene	ND		ug/kg	240000	40000	400
NDPA/DPA	ND		ug/kg	220000	31000	400
n-Nitrosodi-n-propylamine	ND		ug/kg	270000	42000	400
Bis(2-ethylhexyl)phthalate	ND		ug/kg	270000	94000	400
Butyl benzyl phthalate	ND		ug/kg	270000	68000	400

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-17 D  
 Client ID: WC14A\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 15:15  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Di-n-butylphthalate	ND		ug/kg	270000	51000	400
Di-n-octylphthalate	ND		ug/kg	270000	92000	400
Diethyl phthalate	ND		ug/kg	270000	25000	400
Dimethyl phthalate	ND		ug/kg	270000	57000	400
Benzo(a)anthracene	880000		ug/kg	160000	30000	400
Benzo(a)pyrene	1100000		ug/kg	220000	66000	400
Benzo(b)fluoranthene	610000		ug/kg	160000	46000	400
Benzo(k)fluoranthene	55000	J	ug/kg	160000	43000	400
Chrysene	1900000		ug/kg	160000	28000	400
Acenaphthylene	ND		ug/kg	220000	42000	400
Anthracene	ND		ug/kg	160000	53000	400
Benzo(ghi)perylene	1000000		ug/kg	220000	32000	400
Fluorene	ND		ug/kg	270000	26000	400
Phenanthrene	230000		ug/kg	160000	33000	400
Dibenzo(a,h)anthracene	410000		ug/kg	160000	31000	400
Indeno(1,2,3-cd)pyrene	160000	J	ug/kg	220000	38000	400
Pyrene	570000		ug/kg	160000	27000	400
Biphenyl	ND		ug/kg	620000	35000	400
4-Chloroaniline	ND		ug/kg	270000	49000	400
2-Nitroaniline	ND		ug/kg	270000	52000	400
3-Nitroaniline	ND		ug/kg	270000	51000	400
4-Nitroaniline	ND		ug/kg	270000	110000	400
Dibenzofuran	ND		ug/kg	270000	26000	400
2-Methylnaphthalene	110000	J	ug/kg	320000	33000	400
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	270000	28000	400
Acetophenone	ND		ug/kg	270000	34000	400
n-Nitrosodimethylamine	ND		ug/kg	540000	52000	400
2,4,6-Trichlorophenol	ND		ug/kg	160000	51000	400
p-Chloro-m-cresol	ND		ug/kg	270000	40000	400
2-Chlorophenol	ND		ug/kg	270000	32000	400
2,4-Dichlorophenol	ND		ug/kg	240000	44000	400
2,4-Dimethylphenol	ND		ug/kg	270000	90000	400
2-Nitrophenol	ND		ug/kg	590000	100000	400
4-Nitrophenol	ND		ug/kg	380000	110000	400
2,4-Dinitrophenol	ND		ug/kg	1300000	130000	400
4,6-Dinitro-o-cresol	ND		ug/kg	700000	130000	400
Pentachlorophenol	ND		ug/kg	220000	60000	400

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-17 D  
 Client ID: WC14A\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 15:15  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	ND		ug/kg	270000	41000	400
2-Methylphenol	ND		ug/kg	270000	42000	400
3-Methylphenol/4-Methylphenol	ND		ug/kg	390000	42000	400
2,4,5-Trichlorophenol	ND		ug/kg	270000	52000	400
Benzoic Acid	ND		ug/kg	880000	270000	400
Benzyl Alcohol	ND		ug/kg	270000	83000	400
Carbazole	ND		ug/kg	270000	26000	400
Atrazine	ND		ug/kg	220000	95000	400
Benzaldehyde	ND		ug/kg	360000	73000	400
Caprolactam	ND		ug/kg	270000	82000	400
2,3,4,6-Tetrachlorophenol	ND		ug/kg	270000	55000	400
1,4-Dioxane	ND		ug/kg	41000	12000	400

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	0	Q	25-120
Phenol-d6	0	Q	10-120
Nitrobenzene-d5	0	Q	23-120
2-Fluorobiphenyl	0	Q	30-120
2,4,6-Tribromophenol	0	Q	10-136
4-Terphenyl-d14	0	Q	18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-24  
 Client ID: WC14\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 16:00  
 Date Received: 06/17/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/24/24 15:03  
 Analyst: ALS  
 Percent Solids: 85%

Extraction Method: EPA 3546  
 Extraction Date: 06/23/24 10:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	96	J	ug/kg	160	20.	1
Benzidine	ND		ug/kg	640	210	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	26.	1
2-Chloronaphthalene	ND		ug/kg	200	19.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	33.	1
Azobenzene	ND		ug/kg	200	19.	1
Fluoranthene	360		ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	230	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	28.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	28	J	ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	67.	1
Butyl benzyl phthalate	ND		ug/kg	200	49.	1

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434097

Project Number: 170562203

Report Date: 06/28/24

## SAMPLE RESULTS

Lab ID: L2434097-24  
 Client ID: WC14\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 16:00  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	66.	1
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	4800		ug/kg	120	22.	1
Benzo(a)pyrene	4900		ug/kg	160	48.	1
Benzo(b)fluoranthene	3000		ug/kg	120	33.	1
Benzo(k)fluoranthene	370		ug/kg	120	31.	1
Chrysene	4200		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	320		ug/kg	120	38.	1
Benzo(ghi)perylene	4300		ug/kg	160	23.	1
Fluorene	140	J	ug/kg	200	19.	1
Phenanthrene	350		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	2300		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	1600		ug/kg	160	27.	1
Pyrene	2300		ug/kg	120	19.	1
Biphenyl	ND		ug/kg	440	25.	1
4-Chloroaniline	ND		ug/kg	200	35.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	ND		ug/kg	200	18.	1
2-Methylnaphthalene	66	J	ug/kg	230	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
n-Nitrosodimethylamine	ND		ug/kg	390	37.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	31.	1
2,4-Dimethylphenol	ND		ug/kg	200	64.	1
2-Nitrophenol	ND		ug/kg	420	73.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-24  
 Client ID: WC14\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 16:00  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	ND		ug/kg	200	29.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	37.	1
Benzoic Acid	ND		ug/kg	630	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	ND		ug/kg	200	19.	1
Atrazine	ND		ug/kg	160	68.	1
Benzaldehyde	ND		ug/kg	260	53.	1
Caprolactam	ND		ug/kg	200	59.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	39.	1
1,4-Dioxane	ND		ug/kg	29	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	82		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	92		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	82		10-136
4-Terphenyl-d14	77		18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/24/24 13:53  
Analyst: ALS

Extraction Method: EPA 3546  
Extraction Date: 06/23/24 10:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatiles Organics by GC/MS - Westborough Lab for sample(s): 07,14,24 Batch: WG1938146-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	540	180
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/24/24 13:53  
Analyst: ALS

Extraction Method: EPA 3546  
Extraction Date: 06/23/24 10:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07,14,24 Batch: WG1938146-1					
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	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	24	J	ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	20	J	ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
n-Nitrosodimethylamine	ND		ug/kg	330	32.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E  
Analytical Date: 06/24/24 13:53  
Analyst: ALS

Extraction Method: EPA 3546  
Extraction Date: 06/23/24 10:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07,14,24 Batch: WG1938146-1					
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	45.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	92		25-120
Phenol-d6	94		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	100		18-120



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/28/24 15:04  
Analyst: JG

Extraction Method: EPA 3546  
Extraction Date: 06/27/24 19:35

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 17 Batch: WG1940520-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	550	180
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	17.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	22.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/28/24 15:04  
Analyst: JG

Extraction Method: EPA 3546  
Extraction Date: 06/27/24 19:35

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 17 Batch: WG1940520-1					
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	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.
Biphenyl	ND		ug/kg	380	22.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	69.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
n-Nitrosodimethylamine	ND		ug/kg	330	32.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/28/24 15:04  
Analyst: JG

Extraction Method: EPA 3546  
Extraction Date: 06/27/24 19:35

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 17 Batch: WG1940520-1					
2,4-Dichlorophenol	ND		ug/kg	150	27.
2,4-Dimethylphenol	ND		ug/kg	160	55.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	68.
2,4-Dinitrophenol	ND		ug/kg	800	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	80.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	51.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	45.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	94		23-120
2-Fluorobiphenyl	89		30-120
2,4,6-Tribromophenol	75		10-136
4-Terphenyl-d14	94		18-120



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2434097

**Project Number:** 170562203

**Report Date:** 06/28/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07,14,24 Batch: WG1938146-2 WG1938146-3								
Acenaphthene	83		80		31-137	4		50
Benzidine	43		38		10-66	12		50
1,2,4-Trichlorobenzene	74		68		38-107	8		50
Hexachlorobenzene	80		79		40-140	1		50
Bis(2-chloroethyl)ether	85		79		40-140	7		50
2-Chloronaphthalene	74		67		40-140	10		50
1,2-Dichlorobenzene	76		74		40-140	3		50
1,3-Dichlorobenzene	74		71		40-140	4		50
1,4-Dichlorobenzene	76		74		28-104	3		50
3,3'-Dichlorobenzidine	81		79		40-140	3		50
2,4-Dinitrotoluene	92		90		40-132	2		50
2,6-Dinitrotoluene	80		74		40-140	8		50
Azobenzene	94		89		40-140	5		50
Fluoranthene	87		84		40-140	4		50
4-Chlorophenyl phenyl ether	81		79		40-140	3		50
4-Bromophenyl phenyl ether	78		76		40-140	3		50
Bis(2-chloroisopropyl)ether	62		58		40-140	7		50
Bis(2-chloroethoxy)methane	88		83		40-117	6		50
Hexachlorobutadiene	68		64		40-140	6		50
Hexachlorocyclopentadiene	48		44		40-140	9		50
Hexachloroethane	83		78		40-140	6		50
Isophorone	88		82		40-140	7		50
Naphthalene	80		76		40-140	5		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07,14,24 Batch: WG1938146-2 WG1938146-3								
Nitrobenzene	92		86		40-140	7		50
NDPA/DPA	84		80		36-157	5		50
n-Nitrosodi-n-propylamine	90		84		32-121	7		50
Bis(2-ethylhexyl)phthalate	96		87		40-140	10		50
Butyl benzyl phthalate	97		91		40-140	6		50
Di-n-butylphthalate	98		93		40-140	5		50
Di-n-octylphthalate	91		86		40-140	6		50
Diethyl phthalate	88		85		40-140	3		50
Dimethyl phthalate	75		69		40-140	8		50
Benzo(a)anthracene	85		79		40-140	7		50
Benzo(a)pyrene	83		79		40-140	5		50
Benzo(b)fluoranthene	78		76		40-140	3		50
Benzo(k)fluoranthene	90		82		40-140	9		50
Chrysene	86		80		40-140	7		50
Acenaphthylene	78		71		40-140	9		50
Anthracene	88		84		40-140	5		50
Benzo(ghi)perylene	78		77		40-140	1		50
Fluorene	83		79		40-140	5		50
Phenanthrene	86		81		40-140	6		50
Dibenzo(a,h)anthracene	81		81		40-140	0		50
Indeno(1,2,3-cd)pyrene	76		75		40-140	1		50
Pyrene	86		83		35-142	4		50
Biphenyl	68		62		37-127	9		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434097

Project Number: 170562203

Report Date: 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07,14,24 Batch: WG1938146-2 WG1938146-3								
4-Chloroaniline	84		79		40-140	6		50
2-Nitroaniline	90		82		47-134	9		50
3-Nitroaniline	87		87		26-129	0		50
4-Nitroaniline	95		90		41-125	5		50
Dibenzofuran	82		78		40-140	5		50
2-Methylnaphthalene	76		72		40-140	5		50
1,2,4,5-Tetrachlorobenzene	64		58		40-117	10		50
Acetophenone	79		76		14-144	4		50
n-Nitrosodimethylamine	81		80		22-100	1		50
2,4,6-Trichlorophenol	74		68		30-130	8		50
p-Chloro-m-cresol	88		84		26-103	5		50
2-Chlorophenol	90		84		25-102	7		50
2,4-Dichlorophenol	80		75		30-130	6		50
2,4-Dimethylphenol	86		80		30-130	7		50
2-Nitrophenol	94		88		30-130	7		50
4-Nitrophenol	105		98		11-114	7		50
2,4-Dinitrophenol	79		73		4-130	8		50
4,6-Dinitro-o-cresol	89		84		10-130	6		50
Pentachlorophenol	75		70		17-109	7		50
Phenol	90		85		26-90	6		50
2-Methylphenol	94		86		30-130.	9		50
3-Methylphenol/4-Methylphenol	99		94		30-130	5		50
2,4,5-Trichlorophenol	74		68		30-130	8		50



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2434097

Report Date: 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07,14,24 Batch: WG1938146-2 WG1938146-3								
Benzoic Acid	76		69		10-110	10		50
Benzyl Alcohol	97		88		40-140	10		50
Carbazole	88		83		54-128	6		50
Atrazine	73		67		40-140	9		50
Benzaldehyde	76		75		40-140	1		50
Caprolactam	66		62		15-130	6		50
2,3,4,6-Tetrachlorophenol	85		82		40-140	4		50
1,4-Dioxane	57		58		40-140	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	89		88		25-120
Phenol-d6	90		86		10-120
Nitrobenzene-d5	94		87		23-120
2-Fluorobiphenyl	70		64		30-120
2,4,6-Tribromophenol	83		80		10-136
4-Terphenyl-d14	89		84		18-120

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2434097

**Project Number:** 170562203

**Report Date:** 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 17 Batch: WG1940520-2 WG1940520-3								
Acenaphthene	76		77		31-137	1		50
Benzidine	30		40		10-66	29		50
1,2,4-Trichlorobenzene	70		83		38-107	17		50
Hexachlorobenzene	67		72		40-140	7		50
Bis(2-chloroethyl)ether	69		74		40-140	7		50
2-Chloronaphthalene	80		83		40-140	4		50
1,2-Dichlorobenzene	65		74		40-140	13		50
1,3-Dichlorobenzene	66		73		40-140	10		50
1,4-Dichlorobenzene	66		74		28-104	11		50
3,3'-Dichlorobenzidine	74		80		40-140	8		50
2,4-Dinitrotoluene	83		88		40-132	6		50
2,6-Dinitrotoluene	80		88		40-140	10		50
Azobenzene	80		84		40-140	5		50
Fluoranthene	83		93		40-140	11		50
4-Chlorophenyl phenyl ether	78		83		40-140	6		50
4-Bromophenyl phenyl ether	77		83		40-140	8		50
Bis(2-chloroisopropyl)ether	98		105		40-140	7		50
Bis(2-chloroethoxy)methane	76		85		40-117	11		50
Hexachlorobutadiene	84		90		40-140	7		50
Hexachlorocyclopentadiene	52		57		40-140	9		50
Hexachloroethane	67		79		40-140	16		50
Isophorone	74		84		40-140	13		50
Naphthalene	70		77		40-140	10		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 17 Batch: WG1940520-2 WG1940520-3								
Nitrobenzene	80		87		40-140	8		50
NDPA/DPA	76		83		36-157	9		50
n-Nitrosodi-n-propylamine	77		83		32-121	8		50
Bis(2-ethylhexyl)phthalate	70		68		40-140	3		50
Butyl benzyl phthalate	84		87		40-140	4		50
Di-n-butylphthalate	89		93		40-140	4		50
Di-n-octylphthalate	73		69		40-140	6		50
Diethyl phthalate	78		82		40-140	5		50
Dimethyl phthalate	81		89		40-140	9		50
Benzo(a)anthracene	80		84		40-140	5		50
Benzo(a)pyrene	81		70		40-140	15		50
Benzo(b)fluoranthene	74		65		40-140	13		50
Benzo(k)fluoranthene	76		68		40-140	11		50
Chrysene	73		77		40-140	5		50
Acenaphthylene	77		85		40-140	10		50
Anthracene	82		78		40-140	5		50
Benzo(ghi)perylene	78		87		40-140	11		50
Fluorene	75		79		40-140	5		50
Phenanthrene	74		79		40-140	7		50
Dibenzo(a,h)anthracene	78		88		40-140	12		50
Indeno(1,2,3-cd)pyrene	76		86		40-140	12		50
Pyrene	82		91		35-142	10		50
Biphenyl	73		76		37-127	4		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434097

Project Number: 170562203

Report Date: 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 17 Batch: WG1940520-2 WG1940520-3								
4-Chloroaniline	77		90		40-140	16		50
2-Nitroaniline	82		87		47-134	6		50
3-Nitroaniline	68		77		26-129	12		50
4-Nitroaniline	80		83		41-125	4		50
Dibenzofuran	75		79		40-140	5		50
2-Methylnaphthalene	75		82		40-140	9		50
1,2,4,5-Tetrachlorobenzene	73		81		40-117	10		50
Acetophenone	70		78		14-144	11		50
n-Nitrosodimethylamine	55		64		22-100	15		50
2,4,6-Trichlorophenol	89		93		30-130	4		50
p-Chloro-m-cresol	83		95		26-103	13		50
2-Chlorophenol	71		76		25-102	7		50
2,4-Dichlorophenol	78		90		30-130	14		50
2,4-Dimethylphenol	76		82		30-130	8		50
2-Nitrophenol	70		78		30-130	11		50
4-Nitrophenol	93		97		11-114	4		50
2,4-Dinitrophenol	72		75		4-130	4		50
4,6-Dinitro-o-cresol	76		83		10-130	9		50
Pentachlorophenol	71		75		17-109	5		50
Phenol	72		82		26-90	13		50
2-Methylphenol	76		83		30-130.	9		50
3-Methylphenol/4-Methylphenol	74		78		30-130	5		50
2,4,5-Trichlorophenol	92		94		30-130	2		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 17 Batch: WG1940520-2 WG1940520-3								
Benzoic Acid	69		73		10-110	6		50
Benzyl Alcohol	76		87		40-140	13		50
Carbazole	79		82		54-128	4		50
Atrazine	79		84		40-140	6		50
Benzaldehyde	61		68		40-140	11		50
Caprolactam	108		127		15-130	16		50
2,3,4,6-Tetrachlorophenol	86		89		40-140	3		50
1,4-Dioxane	35	Q	38	Q	40-140	8		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		81		25-120
Phenol-d6	72		83		10-120
Nitrobenzene-d5	77		84		23-120
2-Fluorobiphenyl	78		82		30-120
2,4,6-Tribromophenol	61		65		10-136
4-Terphenyl-d14	78		88		18-120

# **PETROLEUM HYDROCARBONS**

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-01  
 Client ID: WC13D\_GRAB\_0-2  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 10:30  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/23/24 17:26  
 Analyst: CRE  
 Percent Solids: 91%

Extraction Method: EPA 3546  
 Extraction Date: 06/22/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	95.4		mg/kg	25.2	25.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	98		40-140
o-Terphenyl	95		40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-08 D  
 Client ID: WC14A\_GRAB\_2-3  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 13:40  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/23/24 19:48  
 Analyst: CRE  
 Percent Solids: 88%

Extraction Method: EPA 3546  
 Extraction Date: 06/22/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	41100		mg/kg	1320	1320	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-15 D  
 Client ID: WC14A\_GRAB\_5-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 15:00  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/28/24 14:56  
 Analyst: MTC  
 Percent Solids: 67%

Extraction Method: EPA 3546  
 Extraction Date: 06/27/24 04:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	229000		mg/kg	5380	5380	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-18 D  
 Client ID: WC14B\_GRAB\_7-8  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 15:30  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/24/24 11:57  
 Analyst: SBC  
 Percent Solids: 99%

Extraction Method: EPA 3546  
 Extraction Date: 06/22/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	2030		mg/kg	120	120.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	95		40-140
o-Terphenyl	91		40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 103,NJDEP EPH  
Analytical Date: 06/23/24 16:50  
Analyst: CRE

Extraction Method: EPA 3546  
Extraction Date: 06/22/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 01,08,18 Batch: WG1938052-1					
Total EPH	ND		mg/kg	22.6	22.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	93		40-140
o-Terphenyl	91		40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 103,NJDEP EPH  
Analytical Date: 06/28/24 09:39  
Analyst: MTC

Extraction Method: EPA 3546  
Extraction Date: 06/27/24 04:28

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 15 Batch: WG1940029-1					
Total EPH	ND		mg/kg	23.4	23.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	76		40-140
o-Terphenyl	77		40-140

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01,08,18 Batch: WG1938052-2 WG1938052-3								
Total EPH	140		119		40-140	16		25
Nonane (C9)	126		107		40-140	16		25
Decane (C10)	139		117		40-140	17		25
Dodecane (C12)	139		117		40-140	17		25
Tetradecane (C14)	139		117		40-140	17		25
Hexadecane (C16)	140		117		40-140	18		25
Octadecane (C18)	138		117		40-140	16		25
Eicosane (C20)	136		112		40-140	19		25
Heneicosane (C21)	140		115		40-140	20		25
Docosane (C22)	138		114		40-140	19		25
Tetracosane (C24)	137		113		40-140	19		25
Hexacosane (C26)	133		110		40-140	19		25
Octacosane (C28)	131		108		40-140	19		25
triacontane (C30)	128		106		40-140	19		25
Dotriacontane (C32)	129		107		40-140	19		25
Tetracontane (C34)	125		103		40-140	19		25
Hexatriacontane (C36)	126		104		40-140	19		25
Octatriacontane (C38)	123		100		40-140	21		25
Tetracontane (C40)	126		102		40-140	21		25

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2434097

**Report Date:** 06/28/24

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01,08,18 Batch: WG1938052-2 WG1938052-3								

<b>Surrogate</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>Acceptance Criteria</b>
Chloro-Octadecane	108		96		40-140
o-Terphenyl	106		95		40-140

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2434097

**Project Number:** 170562203

**Report Date:** 06/28/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 15 Batch: WG1940029-2 WG1940029-3								
Total EPH	99		100		40-140	1		25
Nonane (C9)	92		93		40-140	1		25
Decane (C10)	98		100		40-140	2		25
Dodecane (C12)	92		95		40-140	3		25
Tetradecane (C14)	90		94		40-140	4		25
Hexadecane (C16)	89		92		40-140	3		25
Octadecane (C18)	85		88		40-140	3		25
Eicosane (C20)	86		87		40-140	1		25
Heneicosane (C21)	88		89		40-140	1		25
Docosane (C22)	87		88		40-140	1		25
Tetracosane (C24)	88		88		40-140	0		25
Hexacosane (C26)	87		87		40-140	0		25
Octacosane (C28)	89		89		40-140	0		25
triacontane (C30)	91		92		40-140	1		25
Dotriacontane (C32)	94		94		40-140	0		25
Tetracontane (C34)	92		93		40-140	1		25
Hexatriacontane (C36)	96		96		40-140	0		25
Octatriacontane (C38)	95		97		40-140	2		25
Tetracontane (C40)	100		103		40-140	3		25

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 15 Batch: WG1940029-2 WG1940029-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Chloro-Octadecane	78		79		40-140
o-Terphenyl	80		81		40-140





## Matrix Spike Analysis

*Batch Quality Control*

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

<i>Parameter</i>	<i>Native Sample</i>	<i>MS Added</i>	<i>MS Found</i>	<i>MS %Recovery</i>	<i>Qual</i>	<i>MSD Found</i>	<i>MSD %Recovery</i>	<i>Qual</i>	<i>Recovery Limits</i>	<i>RPD</i>	<i>Qual</i>	<i>RPD Limits</i>
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01,08,18 QC Batch ID: WG1938052-4 QC Sample: L2434097-01 Client ID: WC13D_GRAB_0-2												
Total EPH	95.4	258	459	141	Q	-	-		40-140	-		50
Nonane (C9)	ND	7.18	8.13	113		-	-		40-140	-		50
Decane (C10)	ND	7.18	8.79	122		-	-		40-140	-		50
Dodecane (C12)	ND	7.18	8.90	124		-	-		40-140	-		50
Tetradecane (C14)	ND	7.18	9.23	129		-	-		40-140	-		50
Hexadecane (C16)	ND	7.18	9.52	133		-	-		40-140	-		50
Octadecane (C18)	ND	7.18	9.72	135		-	-		40-140	-		50
Eicosane (C20)	ND	7.18	9.16	128		-	-		40-140	-		50
Heneicosane (C21)	ND	7.18	9.42	131		-	-		40-140	-		50
Docosane (C22)	ND	7.18	9.19	128		-	-		40-140	-		50
Tetracosane (C24)	ND	7.18	9.21	128		-	-		40-140	-		50
Hexacosane (C26)	ND	7.18	8.97	125		-	-		40-140	-		50
Octacosane (C28)	ND	7.18	8.80	123		-	-		40-140	-		50
Triacontane (C30)	ND	7.18	8.46	118		-	-		40-140	-		50
Dotriacontane (C32)	ND	7.18	8.89	124		-	-		40-140	-		50
Tetraatriacontane (C34)	ND	7.18	8.40	117		-	-		40-140	-		50
Hexatriacontane (C36)	ND	7.18	8.85	123		-	-		40-140	-		50
Octatriacontane (C38)	ND	7.18	8.12	113		-	-		40-140	-		50
Tetracontane (C40)	ND	7.18	8.42	117		-	-		40-140	-		50

<i>Surrogate</i>	<i>MS % Recovery</i>	<i>Qualifier</i>	<i>MSD % Recovery</i>	<i>Qualifier</i>	<i>Acceptance Criteria</i>
Chloro-Octadecane	102				40-140

## Matrix Spike Analysis

*Batch Quality Control*

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

<b>Parameter</b>	<b>Native Sample</b>	<b>MS Added</b>	<b>MS Found</b>	<b>MS %Recovery</b>	<b>Qual</b>	<b>MSD Found</b>	<b>MSD %Recovery</b>	<b>Qual</b>	<b>Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01,08,18 QC Batch ID: WG1938052-4 QC Sample: L2434097-01 Client ID: WC13D_GRAB_0-2												

<b>Surrogate</b>	<b>MS % Recovery</b>	<b>Qualifier</b>	<b>MSD % Recovery</b>	<b>Qualifier</b>	<b>Acceptance Criteria</b>
o-Terphenyl	99				40-140

**Lab Duplicate Analysis**  
**Batch Quality Control**

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01,08,18 QC Batch ID: WG1938052-5 QC Sample: L2434097-01 Client ID: WC13D_GRAB_0-2						
Total EPH	95.4	171	mg/kg	57	Q	50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	98		105		40-140
o-Terphenyl	95		101		40-140



**Lab Duplicate Analysis**  
**Batch Quality Control**

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 15 QC Batch ID: WG1940029-5 QC Sample: L2435013-09 Client ID: DUP Sample						
Total EPH	17200	17200	mg/kg	0		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	0	Q	40-140
o-Terphenyl	0	Q	0	Q	40-140



# PCBS

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2434097-07  
**Client ID:** WC13\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/17/24 11:05  
**Date Received:** 06/17/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/24/24 09:38  
**Analyst:** SDC  
**Percent Solids:** 86%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/23/24 08:08  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/23/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/24/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	56.6	5.03	1	A
Aroclor 1221	ND		ug/kg	56.6	5.67	1	A
Aroclor 1232	ND		ug/kg	56.6	12.0	1	A
Aroclor 1242	ND		ug/kg	56.6	7.63	1	A
Aroclor 1248	ND		ug/kg	56.6	8.49	1	A
Aroclor 1254	14.8	J	ug/kg	56.6	6.19	1	B
Aroclor 1260	ND		ug/kg	56.6	10.5	1	A
Aroclor 1262	ND		ug/kg	56.6	7.19	1	A
Aroclor 1268	ND		ug/kg	56.6	5.87	1	A
PCBs, Total	14.8	J	ug/kg	56.6	5.03	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	66		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	68		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-14  
 Client ID: WC14\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 14:25  
 Date Received: 06/17/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 06/24/24 09:46  
 Analyst: SDC  
 Percent Solids: 93%

Extraction Method: EPA 3546  
 Extraction Date: 06/23/24 08:08  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 06/23/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/24/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	51.5	4.58	1	A
Aroclor 1221	ND		ug/kg	51.5	5.16	1	A
Aroclor 1232	ND		ug/kg	51.5	10.9	1	A
Aroclor 1242	ND		ug/kg	51.5	6.95	1	A
Aroclor 1248	ND		ug/kg	51.5	7.73	1	A
Aroclor 1254	ND		ug/kg	51.5	5.64	1	A
Aroclor 1260	ND		ug/kg	51.5	9.52	1	A
Aroclor 1262	ND		ug/kg	51.5	6.54	1	A
Aroclor 1268	ND		ug/kg	51.5	5.34	1	A
PCBs, Total	ND		ug/kg	51.5	4.58	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		30-150	B
Decachlorobiphenyl	48		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2434097-17  
**Client ID:** WC14A\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/17/24 15:15  
**Date Received:** 06/17/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/27/24 08:20  
**Analyst:** MHG  
**Percent Solids:** 73%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/26/24 14:21  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/27/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/27/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	68.3	6.06	1	A
Aroclor 1221	ND		ug/kg	68.3	6.84	1	A
Aroclor 1232	ND		ug/kg	68.3	14.5	1	A
Aroclor 1242	ND		ug/kg	68.3	9.20	1	A
Aroclor 1248	ND		ug/kg	68.3	10.2	1	A
Aroclor 1254	ND		ug/kg	68.3	7.47	1	A
Aroclor 1260	ND		ug/kg	68.3	12.6	1	A
Aroclor 1262	ND		ug/kg	68.3	8.67	1	A
Aroclor 1268	ND		ug/kg	68.3	7.07	1	A
PCBs, Total	ND		ug/kg	68.3	6.06	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	33		30-150	A
Decachlorobiphenyl	39		30-150	A
2,4,5,6-Tetrachloro-m-xylene	35		30-150	B
Decachlorobiphenyl	48		30-150	B



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2434097-24  
**Client ID:** WC14\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/17/24 16:00  
**Date Received:** 06/17/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/24/24 09:54  
**Analyst:** SDC  
**Percent Solids:** 85%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/23/24 08:08  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/23/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/24/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	57.9	5.14	1	A
Aroclor 1221	ND		ug/kg	57.9	5.80	1	A
Aroclor 1232	ND		ug/kg	57.9	12.3	1	A
Aroclor 1242	ND		ug/kg	57.9	7.80	1	A
Aroclor 1248	ND		ug/kg	57.9	8.68	1	A
Aroclor 1254	ND		ug/kg	57.9	6.33	1	A
Aroclor 1260	ND		ug/kg	57.9	10.7	1	A
Aroclor 1262	ND		ug/kg	57.9	7.35	1	A
Aroclor 1268	ND		ug/kg	57.9	6.00	1	A
PCBs, Total	ND		ug/kg	57.9	5.14	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	75		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8082A  
Analytical Date: 06/24/24 09:14  
Analyst: SDC

Extraction Method: EPA 3546  
Extraction Date: 06/23/24 08:08  
Cleanup Method: EPA 3665A  
Cleanup Date: 06/23/24  
Cleanup Method: EPA 3660B  
Cleanup Date: 06/24/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 07,14,24 Batch: WG1938085-1						
Aroclor 1016	ND		ug/kg	46.9	4.17	A
Aroclor 1221	ND		ug/kg	46.9	4.70	A
Aroclor 1232	ND		ug/kg	46.9	9.95	A
Aroclor 1242	ND		ug/kg	46.9	6.33	A
Aroclor 1248	ND		ug/kg	46.9	7.04	A
Aroclor 1254	ND		ug/kg	46.9	5.14	A
Aroclor 1260	ND		ug/kg	46.9	8.68	A
Aroclor 1262	ND		ug/kg	46.9	5.96	A
Aroclor 1268	ND		ug/kg	46.9	4.86	A
PCBs, Total	ND		ug/kg	46.9	4.17	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	84		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8082A  
Analytical Date: 06/27/24 06:45  
Analyst: MHG

Extraction Method: EPA 3546  
Extraction Date: 06/26/24 14:21  
Cleanup Method: EPA 3665A  
Cleanup Date: 06/27/24  
Cleanup Method: EPA 3660B  
Cleanup Date: 06/27/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 17 Batch: WG1939748-1						
Aroclor 1016	ND		ug/kg	47.2	4.20	A
Aroclor 1221	ND		ug/kg	47.2	4.74	A
Aroclor 1232	ND		ug/kg	47.2	10.0	A
Aroclor 1242	ND		ug/kg	47.2	6.37	A
Aroclor 1248	ND		ug/kg	47.2	7.09	A
Aroclor 1254	ND		ug/kg	47.2	5.17	A
Aroclor 1260	ND		ug/kg	47.2	8.73	A
Aroclor 1262	ND		ug/kg	47.2	6.00	A
Aroclor 1268	ND		ug/kg	47.2	4.90	A
PCBs, Total	ND		ug/kg	47.2	4.20	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		30-150	A
Decachlorobiphenyl	117		30-150	A
2,4,5,6-Tetrachloro-m-xylene	102		30-150	B
Decachlorobiphenyl	122		30-150	B

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 07,14,24 Batch: WG1938085-2 WG1938085-3									
Aroclor 1016	76		78		40-140	3		50	A
Aroclor 1260	75		76		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		74		30-150	A
Decachlorobiphenyl	79		80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		79		30-150	B
Decachlorobiphenyl	82		85		30-150	B



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 17 Batch: WG1939748-2 WG1939748-3									
Aroclor 1016	91		82		40-140	10		50	A
Aroclor 1260	85		78		40-140	9		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		87		30-150	A
Decachlorobiphenyl	117		106		30-150	A
2,4,5,6-Tetrachloro-m-xylene	101		90		30-150	B
Decachlorobiphenyl	122		110		30-150	B

# PESTICIDES

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-07  
 Client ID: WC13\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 11:05  
 Date Received: 06/17/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 06/24/24 08:57  
 Analyst: MMG  
 Percent Solids: 86%

Extraction Method: EPA 3546  
 Extraction Date: 06/23/24 09:44  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 06/24/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/24/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.74	0.341	1	A
Lindane	ND		ug/kg	0.726	0.324	1	A
Alpha-BHC	ND		ug/kg	0.726	0.206	1	A
Beta-BHC	ND		ug/kg	1.74	0.660	1	A
Heptachlor	ND		ug/kg	0.871	0.390	1	A
Aldrin	ND		ug/kg	1.74	0.613	1	A
Heptachlor epoxide	ND		ug/kg	3.26	0.980	1	A
Endrin	ND		ug/kg	0.726	0.298	1	A
Endrin aldehyde	ND		ug/kg	2.18	0.762	1	A
Endrin ketone	ND		ug/kg	1.74	0.448	1	A
Dieldrin	ND		ug/kg	1.09	0.544	1	A
4,4'-DDE	0.688	J	ug/kg	1.74	0.403	1	A
4,4'-DDD	ND		ug/kg	1.74	0.621	1	A
4,4'-DDT	3.95		ug/kg	1.74	1.40	1	A
Endosulfan I	ND		ug/kg	1.74	0.411	1	A
Endosulfan II	ND		ug/kg	1.74	0.582	1	A
Endosulfan sulfate	ND		ug/kg	0.726	0.345	1	A
Methoxychlor	ND		ug/kg	3.26	1.02	1	A
Toxaphene	ND		ug/kg	32.6	9.14	1	A
cis-Chlordane	ND		ug/kg	2.18	0.607	1	A
trans-Chlordane	ND		ug/kg	2.18	0.575	1	A
Chlordane	ND		ug/kg	14.5	5.77	1	A

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-07  
 Client ID: WC13\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 11:05  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	72		30-150	B



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-07  
 Client ID: WC13\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 11:05  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/23/24 15:52  
 Analyst: EJL  
 Percent Solids: 86%  
 Methylation Date: 06/23/24 05:07

Extraction Method: EPA 8151A  
 Extraction Date: 06/22/24 10:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	189	11.9	1	A
2,4,5-T	ND		ug/kg	189	5.87	1	A
2,4,5-TP (Silvex)	ND		ug/kg	189	5.04	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	102		30-150	A
DCAA	103		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2434097-14  
**Client ID:** WC14\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/17/24 14:25  
**Date Received:** 06/17/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 06/24/24 09:09  
**Analyst:** MMG  
**Percent Solids:** 93%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/23/24 09:44  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 06/24/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/24/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.64	0.320	1	A
Lindane	ND		ug/kg	0.682	0.305	1	A
Alpha-BHC	ND		ug/kg	0.682	0.194	1	A
Beta-BHC	ND		ug/kg	1.64	0.620	1	A
Heptachlor	ND		ug/kg	0.818	0.367	1	A
Aldrin	ND		ug/kg	1.64	0.576	1	A
Heptachlor epoxide	ND		ug/kg	3.07	0.920	1	A
Endrin	ND		ug/kg	0.682	0.279	1	A
Endrin aldehyde	ND		ug/kg	2.04	0.716	1	A
Endrin ketone	ND		ug/kg	1.64	0.421	1	A
Dieldrin	ND		ug/kg	1.02	0.511	1	A
4,4'-DDE	ND		ug/kg	1.64	0.378	1	A
4,4'-DDD	ND		ug/kg	1.64	0.583	1	A
4,4'-DDT	ND		ug/kg	1.64	1.32	1	A
Endosulfan I	ND		ug/kg	1.64	0.386	1	A
Endosulfan II	ND		ug/kg	1.64	0.546	1	A
Endosulfan sulfate	ND		ug/kg	0.682	0.324	1	A
Methoxychlor	ND		ug/kg	3.07	0.954	1	A
Toxaphene	ND		ug/kg	30.7	8.59	1	A
cis-Chlordane	ND		ug/kg	2.04	0.570	1	A
trans-Chlordane	ND		ug/kg	2.04	0.540	1	A
Chlordane	ND		ug/kg	13.6	5.42	1	A

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434097**Project Number:** 170562203**Report Date:** 06/28/24**SAMPLE RESULTS**

Lab ID: L2434097-14  
 Client ID: WC14\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 14:25  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	85		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	80		30-150	B
Decachlorobiphenyl	85		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-14  
 Client ID: WC14\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 14:25  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/23/24 16:11  
 Analyst: EJJ  
 Percent Solids: 93%  
 Methylation Date: 06/23/24 05:07

Extraction Method: EPA 8151A  
 Extraction Date: 06/22/24 10:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	175	11.0	1	A
2,4,5-T	ND		ug/kg	175	5.43	1	A
2,4,5-TP (Silvex)	ND		ug/kg	175	4.66	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	103		30-150	A
DCAA	110		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-17  
 Client ID: WC14A\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 15:15  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/26/24 20:27  
 Analyst: EMR  
 Percent Solids: 73%  
 Methylation Date: 06/26/24 09:03

Extraction Method: EPA 8151A  
 Extraction Date: 06/25/24 20:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	224	14.1	1	A
2,4,5-T	ND		ug/kg	224	6.96	1	A
2,4,5-TP (Silvex)	ND		ug/kg	224	5.97	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	52		30-150	A
DCAA	1	Q	30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-17 D  
 Client ID: WC14A\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 15:15  
 Date Received: 06/17/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 06/28/24 15:56  
 Analyst: JAG  
 Percent Solids: 73%

Extraction Method: EPA 3546  
 Extraction Date: 06/26/24 16:49  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 06/28/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/28/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	10.8	2.12	5	A
Lindane	ND		ug/kg	4.51	2.02	5	A
Alpha-BHC	ND		ug/kg	4.51	1.28	5	A
Beta-BHC	ND		ug/kg	10.8	4.11	5	A
Heptachlor	ND		ug/kg	5.42	2.43	5	A
Aldrin	ND		ug/kg	10.8	3.81	5	A
Heptachlor epoxide	ND		ug/kg	20.3	6.09	5	A
Endrin	ND		ug/kg	4.51	1.85	5	A
Endrin aldehyde	ND		ug/kg	13.5	4.74	5	A
Endrin ketone	ND		ug/kg	10.8	2.79	5	A
Dieldrin	ND		ug/kg	6.77	3.38	5	A
4,4'-DDE	ND		ug/kg	10.8	2.50	5	A
4,4'-DDD	ND		ug/kg	10.8	3.86	5	A
4,4'-DDT	ND		ug/kg	10.8	8.71	5	A
Endosulfan I	ND		ug/kg	10.8	2.56	5	A
Endosulfan II	ND		ug/kg	10.8	3.62	5	A
Endosulfan sulfate	ND		ug/kg	4.51	2.15	5	A
Methoxychlor	ND		ug/kg	20.3	6.32	5	A
Toxaphene	ND		ug/kg	203	56.8	5	A
cis-Chlordane	ND		ug/kg	13.5	3.77	5	A
trans-Chlordane	ND		ug/kg	13.5	3.57	5	A
Chlordane	ND		ug/kg	90.2	35.9	5	A

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434097**Project Number:** 170562203**Report Date:** 06/28/24**SAMPLE RESULTS**

Lab ID: L2434097-17 D  
 Client ID: WC14A\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 15:15  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	<b>733</b>	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	<b>5650</b>	Q	30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2434097-24  
**Client ID:** WC14\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/17/24 16:00  
**Date Received:** 06/17/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 06/24/24 09:22  
**Analyst:** MMG  
**Percent Solids:** 85%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/23/24 09:44  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 06/24/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/24/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.84	0.361	1	A
Lindane	ND		ug/kg	0.769	0.344	1	A
Alpha-BHC	ND		ug/kg	0.769	0.218	1	A
Beta-BHC	ND		ug/kg	1.84	0.699	1	A
Heptachlor	ND		ug/kg	0.922	0.414	1	A
Aldrin	ND		ug/kg	1.84	0.649	1	A
Heptachlor epoxide	ND		ug/kg	3.46	1.04	1	A
Endrin	ND		ug/kg	0.769	0.315	1	A
Endrin aldehyde	ND		ug/kg	2.30	0.807	1	A
Endrin ketone	ND		ug/kg	1.84	0.475	1	A
Dieldrin	ND		ug/kg	1.15	0.576	1	A
4,4'-DDE	ND		ug/kg	1.84	0.426	1	A
4,4'-DDD	ND		ug/kg	1.84	0.658	1	A
4,4'-DDT	ND		ug/kg	1.84	1.48	1	A
Endosulfan I	ND		ug/kg	1.84	0.436	1	A
Endosulfan II	ND		ug/kg	1.84	0.616	1	A
Endosulfan sulfate	ND		ug/kg	0.769	0.366	1	A
Methoxychlor	ND		ug/kg	3.46	1.08	1	A
Toxaphene	ND		ug/kg	34.6	9.68	1	A
cis-Chlordane	ND		ug/kg	2.30	0.642	1	A
trans-Chlordane	ND		ug/kg	2.30	0.609	1	A
Chlordane	ND		ug/kg	15.4	6.11	1	A



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434097**Project Number:** 170562203**Report Date:** 06/28/24**SAMPLE RESULTS**

Lab ID: L2434097-24  
 Client ID: WC14\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 16:00  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	73		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

Lab ID: L2434097-24  
 Client ID: WC14\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/17/24 16:00  
 Date Received: 06/17/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/23/24 16:29  
 Analyst: EJL  
 Percent Solids: 85%  
 Methylation Date: 06/23/24 05:07

Extraction Method: EPA 8151A  
 Extraction Date: 06/22/24 10:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	195	12.3	1	A
2,4,5-T	ND		ug/kg	195	6.04	1	A
2,4,5-TP (Silvex)	ND		ug/kg	195	5.18	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	107		30-150	A
DCAA	105		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8151A  
Analytical Date: 06/23/24 10:05  
Analyst: EJL

Extraction Method: EPA 8151A  
Extraction Date: 06/22/24 10:48

Methylation Date: 06/23/24 05:07

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 07,14,24 Batch: WG1937961-1						
2,4-D	ND		ug/kg	164	10.3	A
2,4,5-T	ND		ug/kg	164	5.08	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.35	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	81		30-150	A
DCAA	91		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 06/24/24 08:20  
Analyst: MMG

Extraction Method: EPA 3546  
Extraction Date: 06/23/24 09:44  
Cleanup Method: EPA 3620B  
Cleanup Date: 06/24/24  
Cleanup Method: EPA 3660B  
Cleanup Date: 06/24/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 07,14,24 Batch: WG1938125-1						
Delta-BHC	ND		ug/kg	1.57	0.308	A
Lindane	ND		ug/kg	0.654	0.292	A
Alpha-BHC	ND		ug/kg	0.654	0.186	A
Beta-BHC	ND		ug/kg	1.57	0.596	A
Heptachlor	ND		ug/kg	0.785	0.352	A
Aldrin	ND		ug/kg	1.57	0.553	A
Heptachlor epoxide	ND		ug/kg	2.94	0.884	A
Endrin	ND		ug/kg	0.654	0.268	A
Endrin aldehyde	ND		ug/kg	1.96	0.687	A
Endrin ketone	ND		ug/kg	1.57	0.404	A
Dieldrin	ND		ug/kg	0.982	0.491	A
4,4'-DDE	ND		ug/kg	1.57	0.363	A
4,4'-DDD	ND		ug/kg	1.57	0.560	A
4,4'-DDT	ND		ug/kg	1.57	1.26	A
Endosulfan I	ND		ug/kg	1.57	0.371	A
Endosulfan II	ND		ug/kg	1.57	0.525	A
Endosulfan sulfate	ND		ug/kg	0.654	0.312	A
Methoxychlor	ND		ug/kg	2.94	0.916	A
Toxaphene	ND		ug/kg	29.4	8.25	A
cis-Chlordane	ND		ug/kg	1.96	0.547	A
trans-Chlordane	ND		ug/kg	1.96	0.518	A
Chlordane	ND		ug/kg	13.1	5.20	A

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 06/24/24 08:20  
Analyst: MMG

Extraction Method: EPA 3546  
Extraction Date: 06/23/24 09:44  
Cleanup Method: EPA 3620B  
Cleanup Date: 06/24/24  
Cleanup Method: EPA 3660B  
Cleanup Date: 06/24/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 07,14,24 Batch: WG1938125-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	121		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis  
 Batch Quality Control**

Analytical Method: 1,8151A  
 Analytical Date: 06/26/24 16:07  
 Analyst: EMR

Extraction Method: EPA 8151A  
 Extraction Date: 06/25/24 14:12

Methylation Date: 06/26/24 09:03

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 17 Batch: WG1939158-1						
2,4-D	ND		ug/kg	163	10.2	A
2,4,5-T	ND		ug/kg	163	5.04	A
2,4,5-TP (Silvex)	ND		ug/kg	163	4.33	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	106		30-150	A
DCAA	107		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 06/27/24 05:42  
Analyst: MMG

Extraction Method: EPA 3546  
Extraction Date: 06/26/24 07:39  
Cleanup Method: EPA 3620B  
Cleanup Date: 06/27/24  
Cleanup Method: EPA 3660B  
Cleanup Date: 06/27/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 17 Batch: WG1939414-1						
Delta-BHC	ND		ug/kg	1.59	0.312	A
Lindane	ND		ug/kg	0.664	0.297	A
Alpha-BHC	ND		ug/kg	0.664	0.189	A
Beta-BHC	ND		ug/kg	1.59	0.605	A
Heptachlor	ND		ug/kg	0.797	0.357	A
Aldrin	ND		ug/kg	1.59	0.561	A
Heptachlor epoxide	ND		ug/kg	2.99	0.897	A
Endrin	ND		ug/kg	0.664	0.272	A
Endrin aldehyde	ND		ug/kg	1.99	0.698	A
Endrin ketone	ND		ug/kg	1.59	0.411	A
Dieldrin	ND		ug/kg	0.997	0.498	A
4,4'-DDE	ND		ug/kg	1.59	0.369	A
4,4'-DDD	ND		ug/kg	1.59	0.569	A
4,4'-DDT	ND		ug/kg	1.59	1.28	A
Endosulfan I	ND		ug/kg	1.59	0.377	A
Endosulfan II	ND		ug/kg	1.59	0.533	A
Endosulfan sulfate	ND		ug/kg	0.664	0.316	A
Methoxychlor	ND		ug/kg	2.99	0.930	A
Toxaphene	ND		ug/kg	29.9	8.37	A
cis-Chlordane	ND		ug/kg	1.99	0.555	A
trans-Chlordane	ND		ug/kg	1.99	0.526	A
Chlordane	ND		ug/kg	13.3	5.28	A

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 06/27/24 05:42  
Analyst: MMG

Extraction Method: EPA 3546  
Extraction Date: 06/26/24 07:39  
Cleanup Method: EPA 3620B  
Cleanup Date: 06/27/24  
Cleanup Method: EPA 3660B  
Cleanup Date: 06/27/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 17 Batch: WG1939414-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	87		30-150	B



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 07,14,24 Batch: WG1937961-2 WG1937961-3									
2,4-D	102		88		30-150	15		30	A
2,4,5-T	117		101		30-150	15		30	A
2,4,5-TP (Silvex)	108		99		30-150	9		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	103		92		30-150	A
DCAA	131		116		30-150	B



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434097

Project Number: 170562203

Report Date: 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07,14,24 Batch: WG1938125-2 WG1938125-3									
Delta-BHC	93		95		30-150	2		30	A
Lindane	86		90		30-150	5		30	A
Alpha-BHC	91		94		30-150	3		30	A
Beta-BHC	86		89		30-150	3		30	A
Heptachlor	83		86		30-150	4		30	A
Aldrin	90		92		30-150	2		30	A
Heptachlor epoxide	90		92		30-150	2		30	A
Endrin	102		104		30-150	2		30	A
Endrin aldehyde	92		91		30-150	1		30	A
Endrin ketone	104		104		30-150	0		30	A
Dieldrin	109		110		30-150	1		30	A
4,4'-DDE	101		102		30-150	1		30	A
4,4'-DDD	112		113		30-150	1		30	A
4,4'-DDT	105		106		30-150	1		30	A
Endosulfan I	93		96		30-150	3		30	A
Endosulfan II	103		104		30-150	1		30	A
Endosulfan sulfate	111		112		30-150	1		30	A
Methoxychlor	120		120		30-150	0		30	A
cis-Chlordane	92		94		30-150	2		30	A
trans-Chlordane	99		101		30-150	2		30	A

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2434097

**Report Date:** 06/28/24

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07,14,24 Batch: WG1938125-2 WG1938125-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	86		84		30-150	A
Decachlorobiphenyl	110		112		30-150	A
2,4,5,6-Tetrachloro-m-xylene	97		94		30-150	B
Decachlorobiphenyl	125		120		30-150	B

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 17 Batch: WG1939158-2 WG1939158-3									
2,4-D	97		101		30-150	4		30	A
2,4,5-T	102		99		30-150	3		30	A
2,4,5-TP (Silvex)	97		95		30-150	2		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	102		97		30-150	A
DCAA	114		112		30-150	B

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 17 Batch: WG1939414-2 WG1939414-3									
Delta-BHC	77		69		30-150	11		30	A
Lindane	72		70		30-150	3		30	A
Alpha-BHC	72		69		30-150	4		30	A
Beta-BHC	76		74		30-150	3		30	A
Heptachlor	72		68		30-150	6		30	A
Aldrin	72		68		30-150	6		30	A
Heptachlor epoxide	67		63		30-150	6		30	A
Endrin	78		73		30-150	7		30	A
Endrin aldehyde	70		64		30-150	9		30	A
Endrin ketone	79		73		30-150	8		30	A
Dieldrin	79		74		30-150	7		30	A
4,4'-DDE	74		70		30-150	6		30	A
4,4'-DDD	79		74		30-150	7		30	A
4,4'-DDT	73		69		30-150	6		30	A
Endosulfan I	72		68		30-150	6		30	A
Endosulfan II	76		71		30-150	7		30	A
Endosulfan sulfate	73		67		30-150	9		30	A
Methoxychlor	86		78		30-150	10		30	A
cis-Chlordane	67		64		30-150	5		30	A
trans-Chlordane	63		60		30-150	5		30	A

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 17 Batch: WG1939414-2 WG1939414-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	56		51		30-150	A
Decachlorobiphenyl	57		59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		60		30-150	B
Decachlorobiphenyl	66		65		30-150	B

## METALS

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434097**Project Number:** 170562203**Report Date:** 06/28/24**SAMPLE RESULTS**

Lab ID: L2434097-07

Date Collected: 06/17/24 11:05

Client ID: WC13\_COMP\_0-4

Date Received: 06/17/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/20/24 05:34

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/21/24 21:20	06/23/24 15:49	EPA 3015	1,6010D	DHL
Barium, TCLP	0.763		mg/l	0.500	0.0210	1	06/21/24 21:20	06/23/24 15:49	EPA 3015	1,6010D	DHL
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/21/24 21:20	06/23/24 15:49	EPA 3015	1,6010D	DHL
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/21/24 21:20	06/23/24 15:49	EPA 3015	1,6010D	DHL
Lead, TCLP	0.659		mg/l	0.500	0.0270	1	06/21/24 21:20	06/23/24 15:49	EPA 3015	1,6010D	DHL
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/21/24 18:42	06/22/24 13:04	EPA 7470A	1,7470A	DJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/21/24 21:20	06/23/24 15:49	EPA 3015	1,6010D	DHL
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/21/24 21:20	06/23/24 15:49	EPA 3015	1,6010D	DHL





Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434097

Project Number: 170562203

Report Date: 06/28/24

## SAMPLE RESULTS

Lab ID: L2434097-07

Date Collected: 06/17/24 11:05

Client ID: WC13\_COMP\_0-4

Date Received: 06/17/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	4920		mg/kg	8.81	2.38	2	06/21/24 08:10	06/21/24 18:09	EPA 3050B	1,6010D	DMC
Antimony, Total	1.77	J	mg/kg	4.40	0.335	2	06/21/24 08:10	06/21/24 18:09	EPA 3050B	1,6010D	DMC
Arsenic, Total	12.6		mg/kg	0.881	0.183	2	06/21/24 08:10	06/21/24 18:09	EPA 3050B	1,6010D	DMC
Barium, Total	95.8		mg/kg	0.881	0.153	2	06/21/24 08:10	06/21/24 18:09	EPA 3050B	1,6010D	DMC
Beryllium, Total	0.293	J	mg/kg	0.440	0.029	2	06/21/24 08:10	06/21/24 18:09	EPA 3050B	1,6010D	DMC
Cadmium, Total	0.347	J	mg/kg	0.881	0.086	2	06/21/24 08:10	06/21/24 18:09	EPA 3050B	1,6010D	DMC
Calcium, Total	26100		mg/kg	8.81	3.08	2	06/21/24 08:10	06/21/24 18:09	EPA 3050B	1,6010D	DMC
Chromium, Total	15.2		mg/kg	0.881	0.085	2	06/21/24 08:10	06/21/24 18:09	EPA 3050B	1,6010D	DMC
Cobalt, Total	7.16		mg/kg	1.76	0.146	2	06/21/24 08:10	06/21/24 18:09	EPA 3050B	1,6010D	DMC
Copper, Total	158		mg/kg	0.881	0.227	2	06/21/24 08:10	06/21/24 18:09	EPA 3050B	1,6010D	DMC
Iron, Total	25700		mg/kg	4.40	0.795	2	06/21/24 08:10	06/21/24 18:09	EPA 3050B	1,6010D	DMC
Lead, Total	399		mg/kg	4.40	0.236	2	06/21/24 08:10	06/21/24 18:09	EPA 3050B	1,6010D	DMC
Magnesium, Total	3960		mg/kg	8.81	1.36	2	06/21/24 08:10	06/21/24 18:09	EPA 3050B	1,6010D	DMC
Manganese, Total	239		mg/kg	0.881	0.140	2	06/21/24 08:10	06/21/24 18:09	EPA 3050B	1,6010D	DMC
Mercury, Total	1.15		mg/kg	0.074	0.048	1	06/21/24 10:10	06/22/24 15:40	EPA 7471B	1,7471B	MJR
Nickel, Total	28.8		mg/kg	2.20	0.213	2	06/21/24 08:10	06/21/24 18:09	EPA 3050B	1,6010D	DMC
Potassium, Total	667		mg/kg	220	12.7	2	06/21/24 08:10	06/21/24 18:09	EPA 3050B	1,6010D	DMC
Selenium, Total	ND		mg/kg	1.76	0.227	2	06/21/24 08:10	06/21/24 18:09	EPA 3050B	1,6010D	DMC
Silver, Total	ND		mg/kg	0.440	0.249	2	06/21/24 08:10	06/21/24 18:09	EPA 3050B	1,6010D	DMC
Sodium, Total	237		mg/kg	176	2.77	2	06/21/24 08:10	06/21/24 18:09	EPA 3050B	1,6010D	DMC
Thallium, Total	ND		mg/kg	1.76	0.277	2	06/21/24 08:10	06/21/24 18:09	EPA 3050B	1,6010D	DMC
Vanadium, Total	24.9		mg/kg	0.881	0.179	2	06/21/24 08:10	06/21/24 18:09	EPA 3050B	1,6010D	DMC
Zinc, Total	188		mg/kg	4.40	0.258	2	06/21/24 08:10	06/21/24 18:09	EPA 3050B	1,6010D	DMC
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	15.2		mg/kg	0.926	0.185	1		06/24/24 05:19	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434097**Project Number:** 170562203**Report Date:** 06/28/24**SAMPLE RESULTS**

Lab ID: L2434097-14

Date Collected: 06/17/24 14:25

Client ID: WC14\_COMP\_0-4

Date Received: 06/17/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/20/24 05:34

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/21/24 21:20	06/23/24 15:56	EPA 3015	1,6010D	DHL
Barium, TCLP	0.367	J	mg/l	0.500	0.0210	1	06/21/24 21:20	06/23/24 15:56	EPA 3015	1,6010D	DHL
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/21/24 21:20	06/23/24 15:56	EPA 3015	1,6010D	DHL
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/21/24 21:20	06/23/24 15:56	EPA 3015	1,6010D	DHL
Lead, TCLP	0.148	J	mg/l	0.500	0.0270	1	06/21/24 21:20	06/23/24 15:56	EPA 3015	1,6010D	DHL
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/21/24 18:42	06/22/24 13:07	EPA 7470A	1,7470A	DJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/21/24 21:20	06/23/24 15:56	EPA 3015	1,6010D	DHL
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/21/24 21:20	06/23/24 15:56	EPA 3015	1,6010D	DHL



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434097

Project Number: 170562203

Report Date: 06/28/24

## SAMPLE RESULTS

Lab ID: L2434097-14

Date Collected: 06/17/24 14:25

Client ID: WC14\_COMP\_0-4

Date Received: 06/17/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	5100		mg/kg	8.25	2.23	2	06/21/24 08:10	06/21/24 18:13	EPA 3050B	1,6010D	DMC
Antimony, Total	5.50		mg/kg	4.12	0.313	2	06/21/24 08:10	06/21/24 18:13	EPA 3050B	1,6010D	DMC
Arsenic, Total	58.4		mg/kg	0.825	0.172	2	06/21/24 08:10	06/21/24 18:13	EPA 3050B	1,6010D	DMC
Barium, Total	88.9		mg/kg	0.825	0.144	2	06/21/24 08:10	06/21/24 18:13	EPA 3050B	1,6010D	DMC
Beryllium, Total	0.850		mg/kg	0.412	0.027	2	06/21/24 08:10	06/21/24 18:13	EPA 3050B	1,6010D	DMC
Cadmium, Total	0.373	J	mg/kg	0.825	0.081	2	06/21/24 08:10	06/21/24 18:13	EPA 3050B	1,6010D	DMC
Calcium, Total	22100		mg/kg	8.25	2.89	2	06/21/24 08:10	06/21/24 18:13	EPA 3050B	1,6010D	DMC
Chromium, Total	16.4		mg/kg	0.825	0.079	2	06/21/24 08:10	06/21/24 18:13	EPA 3050B	1,6010D	DMC
Cobalt, Total	12.5		mg/kg	1.65	0.137	2	06/21/24 08:10	06/21/24 18:13	EPA 3050B	1,6010D	DMC
Copper, Total	131		mg/kg	0.825	0.213	2	06/21/24 08:10	06/21/24 18:13	EPA 3050B	1,6010D	DMC
Iron, Total	23500		mg/kg	4.12	0.745	2	06/21/24 08:10	06/21/24 18:13	EPA 3050B	1,6010D	DMC
Lead, Total	300		mg/kg	4.12	0.221	2	06/21/24 08:10	06/21/24 18:13	EPA 3050B	1,6010D	DMC
Magnesium, Total	2920		mg/kg	8.25	1.27	2	06/21/24 08:10	06/21/24 18:13	EPA 3050B	1,6010D	DMC
Manganese, Total	487		mg/kg	0.825	0.131	2	06/21/24 08:10	06/21/24 18:13	EPA 3050B	1,6010D	DMC
Mercury, Total	0.399		mg/kg	0.068	0.044	1	06/21/24 10:10	06/22/24 15:43	EPA 7471B	1,7471B	MJR
Nickel, Total	45.3		mg/kg	2.06	0.200	2	06/21/24 08:10	06/21/24 18:13	EPA 3050B	1,6010D	DMC
Potassium, Total	713		mg/kg	206	11.9	2	06/21/24 08:10	06/21/24 18:13	EPA 3050B	1,6010D	DMC
Selenium, Total	0.221	J	mg/kg	1.65	0.213	2	06/21/24 08:10	06/21/24 18:13	EPA 3050B	1,6010D	DMC
Silver, Total	ND		mg/kg	0.412	0.233	2	06/21/24 08:10	06/21/24 18:13	EPA 3050B	1,6010D	DMC
Sodium, Total	215		mg/kg	165	2.60	2	06/21/24 08:10	06/21/24 18:13	EPA 3050B	1,6010D	DMC
Thallium, Total	ND		mg/kg	1.65	0.260	2	06/21/24 08:10	06/21/24 18:13	EPA 3050B	1,6010D	DMC
Vanadium, Total	20.5		mg/kg	0.825	0.167	2	06/21/24 08:10	06/21/24 18:13	EPA 3050B	1,6010D	DMC
Zinc, Total	166		mg/kg	4.12	0.242	2	06/21/24 08:10	06/21/24 18:13	EPA 3050B	1,6010D	DMC
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	16.4		mg/kg	0.859	0.172	1		06/24/24 05:19	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434097**Project Number:** 170562203**Report Date:** 06/28/24**SAMPLE RESULTS**

Lab ID: L2434097-17

Date Collected: 06/17/24 15:15

Client ID: WC14A\_COMP\_4-9

Date Received: 06/17/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/24/24 17:23

Matrix: Soil

Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	0.0326	J	mg/l	1.00	0.0190	1	06/26/24 22:16	06/27/24 12:30	EPA 3015	1,6010D	DMC
Barium, TCLP	0.0598	J	mg/l	0.500	0.0210	1	06/26/24 22:16	06/27/24 12:30	EPA 3015	1,6010D	DMC
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/24 22:16	06/27/24 12:30	EPA 3015	1,6010D	DMC
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/24 22:16	06/27/24 12:30	EPA 3015	1,6010D	DMC
Lead, TCLP	5.26		mg/l	0.500	0.0270	1	06/26/24 22:16	06/27/24 12:30	EPA 3015	1,6010D	DMC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/24 16:00	06/27/24 10:03	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/24 22:16	06/27/24 12:30	EPA 3015	1,6010D	DMC
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/24 22:16	06/27/24 12:30	EPA 3015	1,6010D	DMC



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434097

Project Number: 170562203

Report Date: 06/28/24

## SAMPLE RESULTS

Lab ID: L2434097-17

Date Collected: 06/17/24 15:15

Client ID: WC14A\_COMP\_4-9

Date Received: 06/17/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	934		mg/kg	10.6	2.85	2	06/21/24 08:10	06/21/24 18:17	EPA 3050B	1,6010D	DMC
Antimony, Total	3.48	J	mg/kg	5.28	0.402	2	06/21/24 08:10	06/21/24 18:17	EPA 3050B	1,6010D	DMC
Arsenic, Total	0.915	J	mg/kg	1.06	0.220	2	06/21/24 08:10	06/21/24 18:17	EPA 3050B	1,6010D	DMC
Barium, Total	43.8		mg/kg	1.06	0.184	2	06/21/24 08:10	06/21/24 18:17	EPA 3050B	1,6010D	DMC
Beryllium, Total	ND		mg/kg	0.528	0.035	2	06/21/24 08:10	06/21/24 18:17	EPA 3050B	1,6010D	DMC
Cadmium, Total	ND		mg/kg	1.06	0.104	2	06/21/24 08:10	06/21/24 18:17	EPA 3050B	1,6010D	DMC
Calcium, Total	1190		mg/kg	10.6	3.70	2	06/21/24 08:10	06/21/24 18:17	EPA 3050B	1,6010D	DMC
Chromium, Total	1.65		mg/kg	1.06	0.101	2	06/21/24 08:10	06/21/24 18:17	EPA 3050B	1,6010D	DMC
Cobalt, Total	0.400	J	mg/kg	2.11	0.175	2	06/21/24 08:10	06/21/24 18:17	EPA 3050B	1,6010D	DMC
Copper, Total	27.2		mg/kg	1.06	0.273	2	06/21/24 08:10	06/21/24 18:17	EPA 3050B	1,6010D	DMC
Iron, Total	955		mg/kg	5.28	0.954	2	06/21/24 08:10	06/21/24 18:17	EPA 3050B	1,6010D	DMC
Lead, Total	118		mg/kg	5.28	0.283	2	06/21/24 08:10	06/21/24 18:17	EPA 3050B	1,6010D	DMC
Magnesium, Total	168		mg/kg	10.6	1.63	2	06/21/24 08:10	06/21/24 18:17	EPA 3050B	1,6010D	DMC
Manganese, Total	10.9		mg/kg	1.06	0.168	2	06/21/24 08:10	06/21/24 18:17	EPA 3050B	1,6010D	DMC
Mercury, Total	ND		mg/kg	0.088	0.057	1	06/21/24 10:10	06/22/24 15:46	EPA 7471B	1,7471B	MJR
Nickel, Total	1.19	J	mg/kg	2.64	0.256	2	06/21/24 08:10	06/21/24 18:17	EPA 3050B	1,6010D	DMC
Potassium, Total	138	J	mg/kg	264	15.2	2	06/21/24 08:10	06/21/24 18:17	EPA 3050B	1,6010D	DMC
Selenium, Total	ND		mg/kg	2.11	0.273	2	06/21/24 08:10	06/21/24 18:17	EPA 3050B	1,6010D	DMC
Silver, Total	ND		mg/kg	0.528	0.299	2	06/21/24 08:10	06/21/24 18:17	EPA 3050B	1,6010D	DMC
Sodium, Total	109	J	mg/kg	211	3.33	2	06/21/24 08:10	06/21/24 18:17	EPA 3050B	1,6010D	DMC
Thallium, Total	ND		mg/kg	2.11	0.333	2	06/21/24 08:10	06/21/24 18:17	EPA 3050B	1,6010D	DMC
Vanadium, Total	0.913	J	mg/kg	1.06	0.214	2	06/21/24 08:10	06/21/24 18:17	EPA 3050B	1,6010D	DMC
Zinc, Total	3.83	J	mg/kg	5.28	0.310	2	06/21/24 08:10	06/21/24 18:17	EPA 3050B	1,6010D	DMC

## General Chemistry - Mansfield Lab

Chromium, Trivalent	1.65		mg/kg	1.10	0.220	1		06/27/24 12:53	NA	107,-	
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**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434097**Project Number:** 170562203**Report Date:** 06/28/24**SAMPLE RESULTS**

Lab ID: L2434097-24

Date Collected: 06/17/24 16:00

Client ID: WC14\_COMP\_4-9

Date Received: 06/17/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/20/24 05:34

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/21/24 21:20	06/23/24 16:02	EPA 3015	1,6010D	DHL
Barium, TCLP	0.248	J	mg/l	0.500	0.0210	1	06/21/24 21:20	06/23/24 16:02	EPA 3015	1,6010D	DHL
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/21/24 21:20	06/23/24 16:02	EPA 3015	1,6010D	DHL
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/21/24 21:20	06/23/24 16:02	EPA 3015	1,6010D	DHL
Lead, TCLP	ND		mg/l	0.500	0.0270	1	06/21/24 21:20	06/23/24 16:02	EPA 3015	1,6010D	DHL
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/21/24 18:42	06/22/24 13:11	EPA 7470A	1,7470A	DJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/21/24 21:20	06/23/24 16:02	EPA 3015	1,6010D	DHL
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/21/24 21:20	06/23/24 16:02	EPA 3015	1,6010D	DHL



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434097

Project Number: 170562203

Report Date: 06/28/24

## SAMPLE RESULTS

Lab ID: L2434097-24

Date Collected: 06/17/24 16:00

Client ID: WC14\_COMP\_4-9

Date Received: 06/17/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	4030		mg/kg	8.95	2.42	2	06/21/24 08:10	06/21/24 18:21	EPA 3050B	1,6010D	DMC
Antimony, Total	ND		mg/kg	4.48	0.340	2	06/21/24 08:10	06/21/24 18:21	EPA 3050B	1,6010D	DMC
Arsenic, Total	2.45		mg/kg	0.895	0.186	2	06/21/24 08:10	06/21/24 18:21	EPA 3050B	1,6010D	DMC
Barium, Total	30.6		mg/kg	0.895	0.156	2	06/21/24 08:10	06/21/24 18:21	EPA 3050B	1,6010D	DMC
Beryllium, Total	0.207	J	mg/kg	0.448	0.030	2	06/21/24 08:10	06/21/24 18:21	EPA 3050B	1,6010D	DMC
Cadmium, Total	ND		mg/kg	0.895	0.088	2	06/21/24 08:10	06/21/24 18:21	EPA 3050B	1,6010D	DMC
Calcium, Total	840		mg/kg	8.95	3.13	2	06/21/24 08:10	06/21/24 18:21	EPA 3050B	1,6010D	DMC
Chromium, Total	9.94		mg/kg	0.895	0.086	2	06/21/24 08:10	06/21/24 18:21	EPA 3050B	1,6010D	DMC
Cobalt, Total	3.55		mg/kg	1.79	0.149	2	06/21/24 08:10	06/21/24 18:21	EPA 3050B	1,6010D	DMC
Copper, Total	9.10		mg/kg	0.895	0.231	2	06/21/24 08:10	06/21/24 18:21	EPA 3050B	1,6010D	DMC
Iron, Total	10000		mg/kg	4.48	0.808	2	06/21/24 08:10	06/21/24 18:21	EPA 3050B	1,6010D	DMC
Lead, Total	3.68	J	mg/kg	4.48	0.240	2	06/21/24 08:10	06/21/24 18:21	EPA 3050B	1,6010D	DMC
Magnesium, Total	1850		mg/kg	8.95	1.38	2	06/21/24 08:10	06/21/24 18:21	EPA 3050B	1,6010D	DMC
Manganese, Total	182		mg/kg	0.895	0.142	2	06/21/24 08:10	06/21/24 18:21	EPA 3050B	1,6010D	DMC
Mercury, Total	ND		mg/kg	0.075	0.049	1	06/21/24 10:10	06/22/24 15:50	EPA 7471B	1,7471B	MJR
Nickel, Total	23.0		mg/kg	2.24	0.217	2	06/21/24 08:10	06/21/24 18:21	EPA 3050B	1,6010D	DMC
Potassium, Total	818		mg/kg	224	12.9	2	06/21/24 08:10	06/21/24 18:21	EPA 3050B	1,6010D	DMC
Selenium, Total	ND		mg/kg	1.79	0.231	2	06/21/24 08:10	06/21/24 18:21	EPA 3050B	1,6010D	DMC
Silver, Total	ND		mg/kg	0.448	0.253	2	06/21/24 08:10	06/21/24 18:21	EPA 3050B	1,6010D	DMC
Sodium, Total	57.4	J	mg/kg	179	2.82	2	06/21/24 08:10	06/21/24 18:21	EPA 3050B	1,6010D	DMC
Thallium, Total	ND		mg/kg	1.79	0.282	2	06/21/24 08:10	06/21/24 18:21	EPA 3050B	1,6010D	DMC
Vanadium, Total	15.9		mg/kg	0.895	0.182	2	06/21/24 08:10	06/21/24 18:21	EPA 3050B	1,6010D	DMC
Zinc, Total	20.1		mg/kg	4.48	0.262	2	06/21/24 08:10	06/21/24 18:21	EPA 3050B	1,6010D	DMC
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	9.94		mg/kg	0.939	0.188	1		06/24/24 05:19	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

## 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): 07,14,17,24 Batch: WG1937400-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	06/21/24 08:10	06/21/24 10:39	1,6010D	JMF
Antimony, Total	0.176	J	mg/kg	2.00	0.152	1	06/21/24 08:10	06/21/24 10:39	1,6010D	JMF
Arsenic, Total	ND		mg/kg	0.400	0.083	1	06/21/24 08:10	06/21/24 10:39	1,6010D	JMF
Barium, Total	ND		mg/kg	0.400	0.070	1	06/21/24 08:10	06/21/24 10:39	1,6010D	JMF
Beryllium, Total	ND		mg/kg	0.200	0.013	1	06/21/24 08:10	06/21/24 10:39	1,6010D	JMF
Cadmium, Total	ND		mg/kg	0.400	0.039	1	06/21/24 08:10	06/21/24 10:39	1,6010D	JMF
Calcium, Total	ND		mg/kg	4.00	1.40	1	06/21/24 08:10	06/21/24 10:39	1,6010D	JMF
Chromium, Total	ND		mg/kg	0.400	0.038	1	06/21/24 08:10	06/21/24 10:39	1,6010D	JMF
Cobalt, Total	ND		mg/kg	0.800	0.066	1	06/21/24 08:10	06/21/24 10:39	1,6010D	JMF
Copper, Total	ND		mg/kg	0.400	0.103	1	06/21/24 08:10	06/21/24 10:39	1,6010D	JMF
Iron, Total	0.822	J	mg/kg	2.00	0.361	1	06/21/24 08:10	06/21/24 10:39	1,6010D	JMF
Lead, Total	ND		mg/kg	2.00	0.107	1	06/21/24 08:10	06/21/24 10:39	1,6010D	JMF
Magnesium, Total	ND		mg/kg	4.00	0.616	1	06/21/24 08:10	06/21/24 10:39	1,6010D	JMF
Manganese, Total	0.099	J	mg/kg	0.400	0.064	1	06/21/24 08:10	06/21/24 10:39	1,6010D	JMF
Nickel, Total	ND		mg/kg	1.00	0.097	1	06/21/24 08:10	06/21/24 10:39	1,6010D	JMF
Potassium, Total	ND		mg/kg	100	5.76	1	06/21/24 08:10	06/21/24 10:39	1,6010D	JMF
Selenium, Total	ND		mg/kg	0.800	0.103	1	06/21/24 08:10	06/21/24 10:39	1,6010D	JMF
Silver, Total	ND		mg/kg	0.200	0.113	1	06/21/24 08:10	06/21/24 10:39	1,6010D	JMF
Sodium, Total	ND		mg/kg	80.0	1.26	1	06/21/24 08:10	06/21/24 10:39	1,6010D	JMF
Thallium, Total	ND		mg/kg	0.800	0.126	1	06/21/24 08:10	06/21/24 10:39	1,6010D	JMF
Vanadium, Total	ND		mg/kg	0.400	0.081	1	06/21/24 08:10	06/21/24 10:39	1,6010D	JMF
Zinc, Total	ND		mg/kg	2.00	0.117	1	06/21/24 08:10	06/21/24 10:39	1,6010D	JMF

### 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): 07,14,17,24 Batch: WG1937401-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	06/21/24 10:10	06/22/24 14:37	1,7471B	MJR





**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

## Method Blank Analysis Batch Quality Control

### Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 07,14,24 Batch: WG1937613-1									
Arsenic, TCLP	ND	mg/l	1.00	0.0190	1	06/21/24 21:20	06/23/24 14:04	1,6010D	DHL
Barium, TCLP	ND	mg/l	0.500	0.0210	1	06/21/24 21:20	06/23/24 14:04	1,6010D	DHL
Cadmium, TCLP	ND	mg/l	0.100	0.0100	1	06/21/24 21:20	06/23/24 14:04	1,6010D	DHL
Chromium, TCLP	ND	mg/l	0.200	0.0210	1	06/21/24 21:20	06/23/24 14:04	1,6010D	DHL
Lead, TCLP	ND	mg/l	0.500	0.0270	1	06/21/24 21:20	06/23/24 14:04	1,6010D	DHL
Selenium, TCLP	ND	mg/l	0.500	0.0350	1	06/21/24 21:20	06/23/24 14:04	1,6010D	DHL
Silver, TCLP	ND	mg/l	0.100	0.0280	1	06/21/24 21:20	06/23/24 14:04	1,6010D	DHL

### Prep Information

Digestion Method: EPA 3015  
TCLP/SPLP Extraction Date: 06/19/24 11:45

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 07,14,24 Batch: WG1937618-1									
Mercury, TCLP	ND	mg/l	0.0010	0.0005	1	06/21/24 18:42	06/22/24 12:29	1,7470A	DJR

### Prep Information

Digestion Method: EPA 7470A  
TCLP/SPLP Extraction Date: 06/19/24 11:45

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 17 Batch: WG1939605-1									
Arsenic, TCLP	0.0302 J	mg/l	1.00	0.0190	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC
Barium, TCLP	ND	mg/l	0.500	0.0210	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC
Cadmium, TCLP	ND	mg/l	0.100	0.0100	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC
Chromium, TCLP	ND	mg/l	0.200	0.0210	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

### Method Blank Analysis Batch Quality Control

Lead, TCLP	ND	mg/l	0.500	0.0270	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC
Selenium, TCLP	ND	mg/l	0.500	0.0350	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC
Silver, TCLP	ND	mg/l	0.100	0.0280	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC

#### Prep Information

Digestion Method: EPA 3015  
TCLP/SPLP Extraction Date: 06/23/24 23:19

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 17 Batch: WG1939608-1									
Mercury, TCLP	ND	mg/l	0.0010	0.0005	1	06/26/24 16:00	06/27/24 09:46	1,7470A	MJR

#### Prep Information

Digestion Method: EPA 7470A  
TCLP/SPLP Extraction Date: 06/23/24 23:19

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2434097

**Project Number:** 170562203

**Report Date:** 06/28/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 07,14,17,24 Batch: WG1937400-2								
Aluminum, Total	106		-		80-120	-		
Antimony, Total	105		-		80-120	-		
Arsenic, Total	99		-		80-120	-		
Barium, Total	103		-		80-120	-		
Beryllium, Total	104		-		80-120	-		
Cadmium, Total	100		-		80-120	-		
Calcium, Total	102		-		80-120	-		
Chromium, Total	98		-		80-120	-		
Cobalt, Total	100		-		80-120	-		
Copper, Total	101		-		80-120	-		
Iron, Total	104		-		80-120	-		
Lead, Total	99		-		80-120	-		
Magnesium, Total	97		-		80-120	-		
Manganese, Total	100		-		80-120	-		
Nickel, Total	98		-		80-120	-		
Potassium, Total	106		-		80-120	-		
Selenium, Total	99		-		80-120	-		
Silver, Total	102		-		80-120	-		
Sodium, Total	104		-		80-120	-		
Thallium, Total	93		-		80-120	-		
Vanadium, Total	98		-		80-120	-		

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2434097

**Project Number:** 170562203

**Report Date:** 06/28/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
<b>Total Metals - Mansfield Lab</b> Associated sample(s): 07,14,17,24 Batch: WG1937400-2					
Zinc, Total	98	-	80-120	-	
<b>Total Metals - Mansfield Lab</b> Associated sample(s): 07,14,17,24 Batch: WG1937401-2					
Mercury, Total	100	-	80-120	-	
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b> Associated sample(s): 07,14,24 Batch: WG1937613-2					
Arsenic, TCLP	108	-	75-125	-	20
Barium, TCLP	97	-	75-125	-	20
Cadmium, TCLP	99	-	75-125	-	20
Chromium, TCLP	92	-	75-125	-	20
Lead, TCLP	107	-	75-125	-	20
Selenium, TCLP	92	-	75-125	-	20
Silver, TCLP	96	-	75-125	-	20
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b> Associated sample(s): 07,14,24 Batch: WG1937618-2					
Mercury, TCLP	89	-	80-120	-	

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 17 Batch: WG1939605-2					
Arsenic, TCLP	98	-	75-125	-	20
Barium, TCLP	102	-	75-125	-	20
Cadmium, TCLP	100	-	75-125	-	20
Chromium, TCLP	98	-	75-125	-	20
Lead, TCLP	104	-	75-125	-	20
Selenium, TCLP	96	-	75-125	-	20
Silver, TCLP	96	-	75-125	-	20

TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 17 Batch: WG1939608-2

Mercury, TCLP	90	-	80-120	-	
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### Matrix Spike Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

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): 07,14,17,24 QC Batch ID: WG1937400-3 QC Sample: L2435064-06 Client ID: MS Sample												
Aluminum, Total	13800	187	11200	0	Q	-	-		75-125	-		20
Antimony, Total	ND	46.7	38.7	83		-	-		75-125	-		20
Arsenic, Total	6.31	11.2	17.6	101		-	-		75-125	-		20
Barium, Total	127	187	259	71	Q	-	-		75-125	-		20
Beryllium, Total	1.17	4.67	5.61	95		-	-		75-125	-		20
Cadmium, Total	ND	4.95	4.25	86		-	-		75-125	-		20
Calcium, Total	1350	935	2270	98		-	-		75-125	-		20
Chromium, Total	26.9	18.7	34.8	42	Q	-	-		75-125	-		20
Cobalt, Total	16.2	46.7	56.4	86		-	-		75-125	-		20
Copper, Total	101	23.4	87.2	0	Q	-	-		75-125	-		20
Iron, Total	36200	93.5	32200	0	Q	-	-		75-125	-		20
Lead, Total	22.1	49.5	58.7	74	Q	-	-		75-125	-		20
Magnesium, Total	6290	935	6600	33	Q	-	-		75-125	-		20
Manganese, Total	532	46.7	748	462	Q	-	-		75-125	-		20
Nickel, Total	30.4	46.7	67.3	79		-	-		75-125	-		20
Potassium, Total	1290	935	2480	127	Q	-	-		75-125	-		20
Selenium, Total	ND	11.2	8.73	78		-	-		75-125	-		20
Silver, Total	ND	4.67	4.36	93		-	-		75-125	-		20
Sodium, Total	350	935	1190	90		-	-		75-125	-		20
Thallium, Total	0.385J	11.2	9.66	86		-	-		75-125	-		20
Vanadium, Total	27.1	46.7	59.8	70	Q	-	-		75-125	-		20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

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): 07,14,17,24 QC Batch ID: WG1937400-3 QC Sample: L2435064-06 Client ID: MS Sample									
Zinc, Total	81.3	46.7	106	53	Q	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 07,14,17,24 QC Batch ID: WG1937401-3 QC Sample: L2433890-01 Client ID: MS Sample									
Mercury, Total	ND	1.58	1.58	100	-	-	80-120	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07,14,24 QC Batch ID: WG1937613-3 QC Sample: L2434075-01 Client ID: MS Sample									
Arsenic, TCLP	ND	1.2	1.42	118	-	-	75-125	-	20
Barium, TCLP	0.526	20	20.2	98	-	-	75-125	-	20
Cadmium, TCLP	ND	0.53	0.551	104	-	-	75-125	-	20
Chromium, TCLP	ND	2	1.89	94	-	-	75-125	-	20
Lead, TCLP	ND	5.3	5.68	107	-	-	75-125	-	20
Selenium, TCLP	ND	1.2	1.24	103	-	-	75-125	-	20
Silver, TCLP	ND	0.5	0.499	100	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07,14,24 QC Batch ID: WG1937618-3 QC Sample: L2434075-01 Client ID: MS Sample									
Mercury, TCLP	ND	0.025	0.0234	93	-	-	75-125	-	20

**Matrix Spike Analysis**  
Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 17 QC Batch ID: WG1939605-3 QC Sample: L2433604-01 Client ID: MS Sample									
Arsenic, TCLP	ND	1.2	1.26	105	-	-	75-125	-	20
Barium, TCLP	0.186J	20	20.9	104	-	-	75-125	-	20
Cadmium, TCLP	ND	0.53	0.551	104	-	-	75-125	-	20
Chromium, TCLP	ND	2	2.05	102	-	-	75-125	-	20
Lead, TCLP	0.0359J	5.3	5.54	104	-	-	75-125	-	20
Selenium, TCLP	ND	1.2	1.25	104	-	-	75-125	-	20
Silver, TCLP	ND	0.5	0.517	103	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 17 QC Batch ID: WG1939608-3 QC Sample: L2433604-01 Client ID: MS Sample									
Mercury, TCLP	ND	0.025	0.0242	97	-	-	75-125	-	20



## Lab Duplicate Analysis

*Batch Quality Control*

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
<b>Total Metals - Mansfield Lab</b> Associated sample(s): 07,14,17,24 QC Batch ID: WG1937400-4 QC Sample: L2435064-06 Client ID: DUP Sample						
Lead, Total	22.1	17.4	mg/kg	24	Q	20
<b>Total Metals - Mansfield Lab</b> Associated sample(s): 07,14,17,24 QC Batch ID: WG1937401-4 QC Sample: L2433890-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b> Associated sample(s): 07,14,24 QC Batch ID: WG1937613-4 QC Sample: L2434075-01 Client ID: DUP Sample						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Barium, TCLP	0.526	0.527	mg/l	0		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	ND	ND	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b> Associated sample(s): 07,14,24 QC Batch ID: WG1937618-4 QC Sample: L2434075-01 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20

## Lab Duplicate Analysis

*Batch Quality Control*

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 17 QC Batch ID: WG1939605-4 QC Sample: L2433604-01 Client ID: DUP Sample					
Arsenic, TCLP	ND	ND	mg/l	NC	20
Barium, TCLP	0.186J	0.201J	mg/l	NC	20
Cadmium, TCLP	ND	ND	mg/l	NC	20
Chromium, TCLP	ND	ND	mg/l	NC	20
Lead, TCLP	0.0359J	0.0346J	mg/l	NC	20
Selenium, TCLP	ND	ND	mg/l	NC	20
Silver, TCLP	ND	ND	mg/l	NC	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 17 QC Batch ID: WG1939608-4 QC Sample: L2433604-01 Client ID: DUP Sample					
Mercury, TCLP	ND	ND	mg/l	NC	20

# **INORGANICS & MISCELLANEOUS**

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

### SAMPLE RESULTS

**Lab ID:** L2434097-07  
**Client ID:** WC13\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/17/24 11:05  
**Date Received:** 06/17/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/20/24 16:46	1,1030	REM



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

### SAMPLE RESULTS

**Lab ID:** L2434097-14  
**Client ID:** WC14\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/17/24 14:25  
**Date Received:** 06/17/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Wet Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/20/24 16:46	1,1030	REM



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

### SAMPLE RESULTS

**Lab ID:** L2434097-17  
**Client ID:** WC14A\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/17/24 15:15  
**Date Received:** 06/17/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/25/24 19:29	1,1030	REM



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

### SAMPLE RESULTS

**Lab ID:** L2434097-24  
**Client ID:** WC14\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/17/24 16:00  
**Date Received:** 06/17/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/20/24 16:46	1,1030	REM



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2434097-01  
**Client ID:** WC13D\_GRAB\_0-2  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/17/24 10:30  
**Date Received:** 06/17/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	91.1		%	0.100	NA	1	-	06/19/24 10:36	121,2540G	ROI





**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2434097-07  
**Client ID:** WC13\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/17/24 11:05  
**Date Received:** 06/17/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	86.4		%	0.100	NA	1	-	06/19/24 10:36	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	06/21/24 15:05	06/21/24 18:32	1,9010C/9012B	JER
pH (H)	8.01		SU	-	NA	1	-	06/20/24 21:50	1,9045D	AAS
Chromium, Hexavalent	ND		mg/kg	0.926	0.185	1	06/23/24 04:25	06/24/24 05:19	1,7196A	DTH
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/21/24 11:46	06/21/24 13:14	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/21/24 11:46	06/21/24 13:31	125,7.3	JLB



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2434097-08  
**Client ID:** WC14A\_GRAB\_2-3  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/17/24 13:40  
**Date Received:** 06/17/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	88.2		%	0.100	NA	1	-	06/19/24 10:36	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2434097-14  
**Client ID:** WC14\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/17/24 14:25  
**Date Received:** 06/17/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	93.1		%	0.100	NA	1	-	06/19/24 10:47	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	06/21/24 06:40	06/21/24 14:06	1,9010C/9012B	JER
pH (H)	7.39		SU	-	NA	1	-	06/20/24 21:50	1,9045D	AAS
Chromium, Hexavalent	ND		mg/kg	0.859	0.172	1	06/23/24 04:25	06/24/24 05:19	1,7196A	DTH
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/21/24 11:46	06/21/24 13:15	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/21/24 11:46	06/21/24 13:32	125,7.3	JLB



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2434097-15  
**Client ID:** WC14A\_GRAB\_5-6  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/17/24 15:00  
**Date Received:** 06/17/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	66.8		%	0.100	NA	1	-	06/21/24 10:44	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2434097-17  
**Client ID:** WC14A\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/17/24 15:15  
**Date Received:** 06/17/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	72.8		%	0.100	NA	1	-	06/21/24 10:44	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.3	0.28	1	06/26/24 20:10	06/27/24 14:59	1,9010C/9012B	JER
pH (H)	9.12		SU	-	NA	1	-	06/24/24 20:01	1,9045D	AAS
Chromium, Hexavalent	ND		mg/kg	1.10	0.220	1	06/26/24 10:51	06/27/24 12:53	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/25/24 21:20	06/25/24 22:39	125,7.3	TLH
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/25/24 21:20	06/25/24 22:28	125,7.3	TLH



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2434097-18  
**Client ID:** WC14B\_GRAB\_7-8  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/17/24 15:30  
**Date Received:** 06/17/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	99.0		%	0.100	NA	1	-	06/19/24 10:47	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**SAMPLE RESULTS**

**Lab ID:** L2434097-24  
**Client ID:** WC14\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/17/24 16:00  
**Date Received:** 06/17/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	85.2		%	0.100	NA	1	-	06/19/24 10:47	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	06/21/24 06:40	06/21/24 15:17	1,9010C/9012B	JER
pH (H)	7.52		SU	-	NA	1	-	06/20/24 21:50	1,9045D	AAS
Chromium, Hexavalent	ND		mg/kg	0.939	0.188	1	06/23/24 04:25	06/24/24 05:19	1,7196A	DTH
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/21/24 11:46	06/21/24 13:15	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/21/24 11:46	06/21/24 13:32	125,7.3	JLB



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Method Blank Analysis**  
**Batch Quality Control**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 14,24 Batch: WG1937368-1										
Cyanide, Total	ND		mg/kg	0.90	0.19	1	06/21/24 06:40	06/21/24 13:50	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 07,14,24 Batch: WG1937589-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/21/24 11:46	06/21/24 13:09	125,7.3	JLB
General Chemistry - Westborough Lab for sample(s): 07,14,24 Batch: WG1937596-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/21/24 11:46	06/21/24 13:26	125,7.3	JLB
General Chemistry - Westborough Lab for sample(s): 07 Batch: WG1937624-1										
Cyanide, Total	ND		mg/kg	0.87	0.18	1	06/21/24 15:05	06/21/24 18:26	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 07,14,24 Batch: WG1938064-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	06/23/24 04:25	06/24/24 05:19	1,7196A	DTH
General Chemistry - Westborough Lab for sample(s): 17 Batch: WG1939307-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/25/24 21:20	06/25/24 22:39	125,7.3	TLH
General Chemistry - Westborough Lab for sample(s): 17 Batch: WG1939309-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/25/24 21:20	06/25/24 22:29	125,7.3	TLH
General Chemistry - Westborough Lab for sample(s): 17 Batch: WG1939554-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	06/26/24 10:51	06/27/24 12:53	1,7196A	RDS
General Chemistry - Westborough Lab for sample(s): 17 Batch: WG1939890-1										
Cyanide, Total	ND		mg/kg	0.99	0.21	1	06/26/24 20:10	06/27/24 14:55	1,9010C/9012B	JER



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2434097

**Report Date:** 06/28/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 07,14,24 Batch: WG1937298-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 14,24 Batch: WG1937368-2 WG1937368-3								
Cyanide, Total	99		98		80-120	1		35
General Chemistry - Westborough Lab Associated sample(s): 07,14,24 Batch: WG1937589-2								
Cyanide, Reactive	68		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 07,14,24 Batch: WG1937596-2								
Sulfide, Reactive	110		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 07 Batch: WG1937624-2 WG1937624-3								
Cyanide, Total	90		96		80-120	6		35
General Chemistry - Westborough Lab Associated sample(s): 07,14,24 Batch: WG1938064-2								
Chromium, Hexavalent	94		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 17 Batch: WG1938729-1								
pH	101		-		99-101	-		

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2434097

**Report Date:** 06/28/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 17 Batch: WG1939307-2					
Cyanide, Reactive	92	-	30-125	-	40
General Chemistry - Westborough Lab Associated sample(s): 17 Batch: WG1939309-2					
Sulfide, Reactive	76	-	60-125	-	40
General Chemistry - Westborough Lab Associated sample(s): 17 Batch: WG1939554-2					
Chromium, Hexavalent	83	-	80-120	-	20
General Chemistry - Westborough Lab Associated sample(s): 17 Batch: WG1939890-2 WG1939890-3					
Cyanide, Total	109	105	80-120	4	35

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 14,24 QC Batch ID: WG1937368-4 WG1937368-5 QC Sample: L2434058-10 Client ID: MS Sample												
Cyanide, Total	ND	10	11	100		10	97		75-125	3		35
General Chemistry - Westborough Lab Associated sample(s): 07 QC Batch ID: WG1937624-4 WG1937624-5 QC Sample: L2434983-01 Client ID: MS Sample												
Cyanide, Total	ND	13	13	100		9.8	77		75-125	24		35
General Chemistry - Westborough Lab Associated sample(s): 07,14,24 QC Batch ID: WG1938064-4 QC Sample: L2434097-07 Client ID: WC13_COMP_0-4												
Chromium, Hexavalent	ND	1380	1240	90		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 17 QC Batch ID: WG1939554-4 QC Sample: L2435013-01 Client ID: MS Sample												
Chromium, Hexavalent	ND	1450	1360	94		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 17 QC Batch ID: WG1939890-4 WG1939890-5 QC Sample: L2435025-01 Client ID: MS Sample												
Cyanide, Total	ND	9.6	9.7	100		10	100		75-125	0		35

## Lab Duplicate Analysis

*Batch Quality Control*

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,07-08 QC Batch ID: WG1936303-1 QC Sample: L2434129-01 Client ID: DUP Sample						
Solids, Total	85.3	83.4	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 14,18,24 QC Batch ID: WG1936306-1 QC Sample: L2434058-02 Client ID: DUP Sample						
Solids, Total	80.3	80.1	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 07,14,24 QC Batch ID: WG1937298-2 QC Sample: L2433537-02 Client ID: DUP Sample						
pH	7.42	7.38	SU	1		5
General Chemistry - Westborough Lab Associated sample(s): 15,17 QC Batch ID: WG1937464-1 QC Sample: L2434097-15 Client ID: WC14A_GRAB_5-6						
Solids, Total	66.8	65.8	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 07,14,24 QC Batch ID: WG1937589-3 QC Sample: L2434874-04 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 07,14,24 QC Batch ID: WG1937596-3 QC Sample: L2434874-04 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 07,14,24 QC Batch ID: WG1938064-6 QC Sample: L2434097-07 Client ID: WC13_COMP_0-4						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 17 QC Batch ID: WG1938729-2 QC Sample: L2432811-02 Client ID: DUP Sample						
pH	11.9	11.8	SU	1		5

## Lab Duplicate Analysis

*Batch Quality Control*

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 17 QC Batch ID: WG1939307-3 QC Sample: L2434738-01 Client ID: DUP Sample					
Cyanide, Reactive	ND	ND	mg/kg	NC	40
General Chemistry - Westborough Lab Associated sample(s): 17 QC Batch ID: WG1939309-3 QC Sample: L2434738-01 Client ID: DUP Sample					
Sulfide, Reactive	ND	ND	mg/kg	NC	40
General Chemistry - Westborough Lab Associated sample(s): 17 QC Batch ID: WG1939554-6 QC Sample: L2435013-01 Client ID: DUP Sample					
Chromium, Hexavalent	ND	ND	mg/kg	NC	20

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

Serial\_No:06282419:11  
**Lab Number:** L2434097  
**Report Date:** 06/28/24

**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information**

<b>Cooler</b>	<b>Custody Seal</b>
A	Absent
B	Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2434097-01A	Vial MeOH preserved	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L2434097-01B	Vial water preserved	B	NA		3.8	Y	Absent	18-JUN-24 14:49	NYTCL-8260HLW(14)
L2434097-01C	Vial water preserved	B	NA		3.8	Y	Absent	18-JUN-24 14:49	NYTCL-8260HLW(14)
L2434097-01D	Plastic 2oz unpreserved for TS	B	NA		3.8	Y	Absent		TS(7)
L2434097-01E	Glass 120ml/4oz unpreserved	B	NA		3.8	Y	Absent		NJEPH-TPH-CAT1(14)
L2434097-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434097-02B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434097-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434097-03B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434097-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434097-04B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434097-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434097-05B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434097-06A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434097-06B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434097-07A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),CD-TI(180),CA-TI(180),K-TI(180),NA-TI(180)
L2434097-07B	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),REACTS(14),IGNIT-1030(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)

\*Values in parentheses indicate holding time in days



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**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2434097-07C	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),REACTS(14),IGNIT-1030(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2434097-07D	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),REACTS(14),IGNIT-1030(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2434097-07X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.7	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2434097-07X9	Tumble Vessel	A	NA		2.7	Y	Absent		-
L2434097-08A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2434097-08B	Vial water preserved	A	NA		2.7	Y	Absent	18-JUN-24 14:49	NYTCL-8260HLW(14)
L2434097-08C	Vial water preserved	A	NA		2.7	Y	Absent	18-JUN-24 14:49	NYTCL-8260HLW(14)
L2434097-08D	Plastic 2oz unpreserved for TS	A	NA		2.7	Y	Absent		TS(7)
L2434097-08E	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NJEPH-TPH-CAT1(14)
L2434097-09A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434097-09B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434097-10A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434097-10B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434097-11A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434097-11B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434097-12A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434097-12B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434097-13A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434097-13B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434097-14A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),PB-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),MN-TI(180),FE-TI(180),MG-TI(180),HG-T(28),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)

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**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2434097-14B	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		REACTS(14),NYTCL-8270(14),TCN-9010(14),IGNIT-1030(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2434097-14C	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		REACTS(14),NYTCL-8270(14),TCN-9010(14),IGNIT-1030(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2434097-14D	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		REACTS(14),NYTCL-8270(14),TCN-9010(14),IGNIT-1030(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2434097-14X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.7	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2434097-14X9	Tumble Vessel	A	NA		2.7	Y	Absent		-
L2434097-15A	Vial MeOH preserved	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L2434097-15B	Vial water preserved	B	NA		3.8	Y	Absent	18-JUN-24 14:49	NYTCL-8260HLW(14)
L2434097-15C	Vial water preserved	B	NA		3.8	Y	Absent	18-JUN-24 14:49	NYTCL-8260HLW(14)
L2434097-15D	Plastic 120ml unpreserved	B	NA		3.8	Y	Absent		TS(7)
L2434097-15E	Glass 120ml/4oz unpreserved	B	NA		3.8	Y	Absent		NJEPH-TPH-CAT1(14)
L2434097-16A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		HOLD-METAL(180)
L2434097-16B	Glass 250ml/8oz unpreserved	B	NA		3.8	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434097-17A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	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),PB-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),CO-TI(180),V-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CD-TI(180),CA-TI(180),NA-TI(180),K-TI(180)
L2434097-17B	Glass 120ml/4oz unpreserved	B	NA		3.8	Y	Absent		TCN-9010(14),IGNIT-1030(14),NYTCL-8270(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2434097-17C	Glass 120ml/4oz unpreserved	B	NA		3.8	Y	Absent		TCN-9010(14),IGNIT-1030(14),NYTCL-8270(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)



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**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2434097-17D	Glass 500ml/16oz unpreserved	B	NA		3.8	Y	Absent		TCN-9010(14),IGNIT-1030(14),NYTCL-8270(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2434097-17X	Plastic 120ml HNO3 preserved Extracts	NA	NA			Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2434097-17X9	Tumble Vessel	NA	NA			Y	Absent		-
L2434097-18A	Vial MeOH preserved	B	NA		3.8	Y	Absent		NYTCL-8260HLW(14)
L2434097-18B	Vial water preserved	B	NA		3.8	Y	Absent	18-JUN-24 14:49	NYTCL-8260HLW(14)
L2434097-18C	Vial water preserved	B	NA		3.8	Y	Absent	18-JUN-24 14:49	NYTCL-8260HLW(14)
L2434097-18D	Glass 120ml/4oz unpreserved	B	NA		3.8	Y	Absent		NJEPH-TPH-CAT1(14),TS(7)
L2434097-19A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		HOLD-METAL(180)
L2434097-19B	Glass 250ml/8oz unpreserved	B	NA		3.8	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434097-20A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		HOLD-METAL(180)
L2434097-20B	Glass 250ml/8oz unpreserved	B	NA		3.8	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434097-21A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		HOLD-METAL(180)
L2434097-21B	Glass 250ml/8oz unpreserved	B	NA		3.8	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434097-22A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		HOLD-METAL(180)
L2434097-22B	Glass 250ml/8oz unpreserved	B	NA		3.8	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434097-23A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	Y	Absent		HOLD-METAL(180)
L2434097-23B	Glass 250ml/8oz unpreserved	B	NA		3.8	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434097-24A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.8	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),PB-TI(180),SE-TI(180),SB-TI(180),CU-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MG-TI(180),MN-TI(180),HG-T(28),CD-TI(180),K-TI(180),CA-TI(180),NA-TI(180)
L2434097-24B	Glass 120ml/4oz unpreserved	B	NA		3.8	Y	Absent		IGNIT-1030(14),REACTS(14),NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)

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**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2434097-24C	Glass 120ml/4oz unpreserved	B	NA		3.8	Y	Absent		IGNIT-1030(14),REACTS(14),NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2434097-24D	Glass 500ml/16oz unpreserved	B	NA		3.8	Y	Absent		IGNIT-1030(14),REACTS(14),NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2434097-24X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.8	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2434097-24X9	Tumble Vessel	B	NA		3.8	Y	Absent		-

\*Values in parentheses indicate holding time in days



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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



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### 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:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

#### 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:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434097  
**Report Date:** 06/28/24

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 103 Analysis of Extractable Petroleum Hydrocarbon Compounds (EPH) in Aqueous and Soil/Sediment/Sludge Matrices. New Jersey Department of Environmental Protection, Site Remediation Program, (Version 1.1), Document # NJDEP EPH 10/08, Revision 3, August 2010.
- 107 Alpha Analytical - In-house calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

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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, NO<sub>2</sub>, NO<sub>3</sub>.

### 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

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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**

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For a complete listing of analytes and methods, please contact your Alpha Project Manager.



 <b>ALPHA</b> <small>LABORATORY</small>	<b>NEW YORK CHAIN OF CUSTODY</b>	<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 1 of 3	Date Rec'd in Lab <span style="font-size: 1.5em;">6/18/24</span>	ALPHA Job # <span style="font-size: 1.5em;">L2434/097</span>
		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		
<b>Project Information</b>		Project Name: 145-165 Wolcott Street Project Location: 145-165 Wolcott Street Project #: 170562203 (Use Project name as Project #) <input type="checkbox"/>		<b>Deliverables</b>	
<b>Client Information</b>		Client: Langan Address: 360 West 31st Street, 8th Floor New York, NY 10001 Phone: 212.479.5400 Fax: Email: npalumbo@langan.com		<input checked="" type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EquiS (1 File) <input type="checkbox"/> EquiS (4 File) <input type="checkbox"/> Other	
<b>Other project specific requirements/comments:</b>		Project Manager: Nicholas Palumbo ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		<b>Regulatory Requirement</b>	
These samples have been previously analyzed by Alpha <input type="checkbox"/>		Copy lgrose@langan.com, and DataManagement@langan.com on laboratory results		<input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge	
<b>Please specify Metals or TAL.</b>				<b>Disposal Site Information</b>	
<b>ANALYSIS</b>				Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:	
<b>Sample Filtration</b>				<input type="checkbox"/> Done <input type="checkbox"/> Lab to do <b>Preservation</b> <input type="checkbox"/> Lab to do (Please Specify below)	
<b>Sample Specific Comments</b>				Total Bottle	
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date      Time	Sample Matrix	Sampler's Initials	
					Group A      Group B      Group C      Group D <b>GROUP-HOOD</b>
<b>34097-01</b>	WC13D-GRAB-0-2	6/17/2024	10:30	S	LC
<b>-02</b>	WC13B-0-2      HOLD		10:40	S	LC
<b>-03</b>	WC13C-0-2      HOLD		10:45	S	LC
<b>-04</b>	WC13D-0-2      HOLD		10:50	S	LC
<b>-05</b>	WC13E-0-2      HOLD		10:55	S	LC
<b>-06</b>	WC13F-0-2      HOLD		11:00	S	LC
<b>-07</b>	WC13-COMP-0-4		11:05	S	LC
<b>-08</b>	WC14A-GRAB-2-3		13:40	S	LC
<b>-09</b>	WC14A-1-2      HOLD		14:00	S	LC
				S	LC
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015	
				Container Type	
				Preservative	
		Relinquished By: Lisa Cristiano/Langan		Date/Time: 6/17/24 16:15	
		Received By: [Signature]		Date/Time: 6/17/24 16:15	
		[Signature]		Date/Time: 6/17/24 17:07	
		[Signature]		Date/Time: 6/17/24 18:40	
		[Signature]		Date/Time: 6/17 22:00	
		[Signature]		Date/Time: 6/18/24 0115	



2434097



NEW YORK CHAIN OF CUSTODY

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
2 of 3

Date Rec'd in Lab 6/18/24

ALPHA Job #

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

Project Information
Project Name: 145-165 Wolcott Street
Project Location: 145-165 Wolcott Street
Project #: 170562203

Deliverables
[X] ASP-A
[ ] EQuIS (1 File)
[ ] Other

Billing Information
[ ] Same as Client Info
PO #

Client Information
Client: Langan
Address: 360 West 31st Street, 8th Floor
New York, NY 10001
Phone: 212.479.5400
Fax:
Email: npalumbo@langan.com

(Use Project name as Project #) [ ]
Project Manager: Nicholas Palumbo
ALPHAQuote #:
Turn-Around Time
Standard [ ] Due Date:
Rush (only if pre approved) [ ] # of Days:

Regulatory Requirement
[ ] NY TOGS
[ ] AWQ Standards
[ ] NY Restricted Use
[ ] 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:
Copy igrose@langan.com, and DataManagement@langan.com on laboratory results
Please specify Metals or TAL.

ANALYSIS

Table with columns for Group A, Group B, Group C, Group D, and handwritten 'GROUP E - HOLD'.

Sample Filtration
[ ] Done
[ ] Lab to do
Preservation
[ ] Lab to do
(Please Specify below)
Sample Specific Comments

Main data table with columns: ALPHA Lab ID, Sample ID, Collection (Date/Time), Sample Matrix, Sampler's Initials.

Preservative Code: A = None, B = HCl, C = HNO3, D = H2SO4, E = NaOH, F = MeOH, G = NaHSO4, H = Na2S2O3, K/E = Zn Ac/NaOH, O = Other

Container Code: P = Plastic, A = Amber Glass, V = Vial, G = Glass, B = Bacteria Cup, C = Cube, O = Other, E = Encore, D = BOD Bottle


Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type
Preservative

Relinquished By: Lisa Cristiano/Langan
Date/Time: 6/17/24 16:15
Received By: [Signature]
Date/Time: 6/17/24 16:16

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.

Handwritten signatures and dates at the bottom of the page, including '6/18/24 11:5' and '6/18/24 01:5'.

 <b>NEW YORK CHAIN OF CUSTODY</b> Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	<b>NEW YORK CHAIN OF CUSTODY</b> Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9300 FAX: 508-822-3288	<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 <b>3 of 3</b>	Date Rec'd in Lab <b>6/18/24</b>	ALPHA Job # <b>W434097</b>	
		<b>Project Information</b> Project Name: 145-165 Wolcott Street Project Location: 145-165 Wolcott Street Project #: 170562203 (Use Project name as Project #) <input type="checkbox"/>		<b>Deliverables</b> <input checked="" type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other		<b>Billing Information</b> <input checked="" type="checkbox"/> Same as Client Info PO #
		<b>Client Information</b> Client: Langan Address: 360 West 31st Street, 8th Floor New York, NY 10001 Phone: 212.479.5400 Fax: Email: npalumbo@langan.com		<b>Project Manager:</b> Nicholas Palumbo <b>ALPHAQuote #:</b> <b>Turn-Around Time</b> Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		<b>Regulatory Requirement</b> <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge
These samples have been previously analyzed by Alpha <input type="checkbox"/> <b>Other project specific requirements/comments:</b> Copy lgrose@langan.com, and DataManagement@langan.com on laboratory results Please specify Metals or TAL.		<b>ANALYSIS</b>		<b>Disposal Site Information</b> Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:		
				<b>Sample Filtration</b> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <b>Preservation</b> <input type="checkbox"/> Lab to do (Please Specify below)		
				Group A    Group B    Group C    Group D <b>GROUP E - HOLD</b>		
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date    Time	Sample Matrix	Sampler's Initials	Total Bottles	
34097-20	WC14C-4-5	6/17/2024 15:40	S	LC		
-21	WC14D-5-6	15:45	S	LC		
-22	WC14D-6-7	15:50	S	LC		
-23	WC14C-8-9	15:55	S	LC		
-24	WC14-COMP-4-9	16:00	S	LC		
			S	LC		
			S	LC		
			S	LC		
			S	LC		
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 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: Lisa Cristiano/Langan		Date/Time: 6/17/24 16:15		
		Received By: [Signature]		Date/Time: 6/17/24 16:18		
		[Signature]		Date/Time: 6/17/24 17:07		
		[Signature]		Date/Time: 6/17/24 17:08		
		[Signature]		Date/Time: 6/17/24 18:40		
		[Signature]		Date/Time: 6/17/24 20:00		
		[Signature]		Date/Time: 6/18/24 11:15		
		[Signature]		Date/Time: 6/18/24 01:15		



**145-165 Wolcott Street  
Langan Project No.: 170562203**

**Sample Analysis Reference Sheet**

**Group A**

Part 375/TCL/NJDEP/PADEP SVOCs  
Pesticides  
Herbicides  
PCBs  
Part 375/TAL Metals  
Hexavalent Chromium  
Trivalent Chromium  
Total Cyanide  
TCLP Metals  
RCRA Characteristics

**Group B**

Part 375/TCL VOCs, NJDEP EPH

**Group C**

Part 375/TCL/NJDEP/PADEP SVOCs  
Pesticides  
Herbicides  
PCBs  
Part 375/TAL Metals  
Hexavalent Chromium  
Trivalent Chromium  
Total Cyanide  
TCLP Metals  
RCRA Characteristics  
Full TCLP (Minus VOCs)  
Paint Filter

**Group D**

Part 375/TCL VOCs, TCLP VOCs, NJDEP EPH

**Group E - HOLD**

Total and TCLP Metals

JOB: L2434443      REPORT STYLE: Data Usability Report  
0010: Alpha Analytical Report Cover Page - OK  
0015: Sample Cross Reference Summary - OK  
0060: Case Narrative - OK  
0100: Volatiles Cover Page - OK  
0110: Volatiles Sample Results - OK  
0120: Volatiles Method Blank Report - OK  
0130: Volatiles LCS Report - OK  
0180: Semivolatiles Cover Page - OK  
0190: Semivolatiles Sample Results - OK  
0200: Semivolatiles Method Blank Report - OK  
0210: Semivolatiles LCS Report - OK  
0400: Petroleum Cover Page - OK  
0410: Petroleum Sample Results - OK  
0420: Petroleum Method Blank Report - OK  
0430: Petroleum LCS Report - OK  
0450: Petroleum Matrix Spike Report - OK  
0460: Petroleum Duplicate Report - OK  
0700: PCBs Cover Page - OK  
0710: PCBs Sample Results - OK  
0720: PCBs Method Blank Report - OK  
0730: PCBs LCS Report - OK  
0900: Pesticides Cover Page - OK  
0910: Pesticides Sample Results - OK  
0920: Pesticides Method Blank Report - OK  
0930: Pesticides LCS Report - OK  
1005: Metals Sample Results - OK  
1010: Metals Method Blank Report - OK  
1020: Metals LCS Report - OK  
1040: Metals Matrix Spike Report - OK  
1050: Metals Duplicate Report - OK  
1060: Metals Serial Dilution Report - OK  
1180: Inorganics Cover Page - OK  
1190: Ignitability Results - OK  
1200: Wet Chemistry Sample Results - OK  
1210: Wet Chemistry Method Blank Report - OK  
1220: Wet Chemistry LCS Report - OK  
1240: Wet Chemistry Matrix Spike Report - OK  
1250: Wet Chemistry Duplicate Report - OK  
5100: Sample Receipt & Container Information Report - OK  
Too many rows. We are stopping the contents here.  
-----



## ANALYTICAL REPORT

Lab Number:	L2434443
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Nicholas Palumbo
Phone:	(212) 479-5435
Project Name:	145-165 WOLCOTT STREET
Project Number:	170562203
Report Date:	06/26/24

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).

---

Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2434443

Report Date: 06/26/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2434443-01	WC06A_GRAB_2-4	SOIL	145-165 WOLCOTT STREET	06/18/24 11:20	06/18/24
L2434443-02	WC06A_0-1	SOIL	145-165 WOLCOTT STREET	06/18/24 11:30	06/18/24
L2434443-03	WC06B_1-2	SOIL	145-165 WOLCOTT STREET	06/18/24 11:35	06/18/24
L2434443-04	WC06C_3-4	SOIL	145-165 WOLCOTT STREET	06/18/24 11:40	06/18/24
L2434443-05	WC06D_2-3	SOIL	145-165 WOLCOTT STREET	06/18/24 11:45	06/18/24
L2434443-06	WC06E_2-3	SOIL	145-165 WOLCOTT STREET	06/18/24 11:50	06/18/24
L2434443-07	WC06_COMP_0-4	SOIL	145-165 WOLCOTT STREET	06/18/24 11:55	06/18/24
L2434443-08	WC06D_GRAB_7-9	SOIL	145-165 WOLCOTT STREET	06/18/24 12:30	06/18/24
L2434443-09	WC06C_4-5	SOIL	145-165 WOLCOTT STREET	06/18/24 12:35	06/18/24
L2434443-10	WC06D_5-6	SOIL	145-165 WOLCOTT STREET	06/18/24 12:40	06/18/24
L2434443-11	WC06E_8-9	SOIL	145-165 WOLCOTT STREET	06/18/24 12:45	06/18/24
L2434443-12	WC06E_6-7	SOIL	145-165 WOLCOTT STREET	06/18/24 12:50	06/18/24
L2434443-13	WC06E_7-8	SOIL	145-165 WOLCOTT STREET	06/18/24 12:55	06/18/24
L2434443-14	WC06_COMP_4-9	SOIL	145-165 WOLCOTT STREET	06/18/24 13:00	06/18/24
L2434443-15	WC11D_GRAB_2-4	SOIL	145-165 WOLCOTT STREET	06/18/24 14:00	06/18/24
L2434443-16	WC11A_1-2	SOIL	145-165 WOLCOTT STREET	06/18/24 14:05	06/18/24
L2434443-17	WC11B_2-3	SOIL	145-165 WOLCOTT STREET	06/18/24 14:10	06/18/24
L2434443-18	WC11C_2-3	SOIL	145-165 WOLCOTT STREET	06/18/24 14:15	06/18/24
L2434443-19	WC11D_0-1	SOIL	145-165 WOLCOTT STREET	06/18/24 14:20	06/18/24
L2434443-20	WC11D_3-4	SOIL	145-165 WOLCOTT STREET	06/18/24 14:25	06/18/24
L2434443-21	WC11_COMP_0-4	SOIL	145-165 WOLCOTT STREET	06/18/24 14:30	06/18/24
L2434443-22	WC11B_GRAB_5-7	SOIL	145-165 WOLCOTT STREET	06/18/24 15:00	06/18/24
L2434443-23	WC11A_6-7	SOIL	145-165 WOLCOTT STREET	06/18/24 15:05	06/18/24
L2434443-24	WC11B_5-6	SOIL	145-165 WOLCOTT STREET	06/18/24 15:10	06/18/24

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2434443-25	WC11C_4-5	SOIL	145-165 WOLCOTT STREET	06/18/24 15:15	06/18/24
L2434443-26	WC11D_8-9	SOIL	145-165 WOLCOTT STREET	06/18/24 15:20	06/18/24
L2434443-27	WC11D_7-8	SOIL	145-165 WOLCOTT STREET	06/18/24 15:25	06/18/24
L2434443-28	WC11_COMP_4-9	SOIL	145-165 WOLCOTT STREET	06/18/24 15:30	06/18/24
L2434443-29	WC06D_GRAB_10-12	SOIL	145-165 WOLCOTT STREET	06/18/24 15:35	06/18/24
L2434443-30	WC06D_10-11	SOIL	145-165 WOLCOTT STREET	06/18/24 15:40	06/18/24
L2434443-31	WC06F_9-10	SOIL	145-165 WOLCOTT STREET	06/18/24 15:45	06/18/24
L2434443-32	WC11A_11-12	SOIL	145-165 WOLCOTT STREET	06/18/24 15:50	06/18/24
L2434443-33	WC11B_12-13	SOIL	145-165 WOLCOTT STREET	06/18/24 15:55	06/18/24
L2434443-34	WC11D_10-11	SOIL	145-165 WOLCOTT STREET	06/18/24 16:00	06/18/24
L2434443-35	WC18_COMP_9-13	SOIL	145-165 WOLCOTT STREET	06/18/24 16:05	06/18/24
L2434443-36	WC06D_5	SOIL	145-165 WOLCOTT STREET	06/18/24 12:00	06/18/24

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

### 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.

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**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

### Case Narrative (continued)

#### Report Submission

June 26, 2024: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Sample Receipt

L2434443-01, -08, -15, -22, and -29: The Client ID was specified by the client.

#### Volatile Organics

L2434443-01: The analysis of Volatile Organics by EPA Method 5035/8260 Low Level could not be performed due to the elevated concentrations of non-target compounds in the sample.

L2434443-01: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (152%); 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.

#### Semivolatile Organics

L2434443-14D: The sample has elevated detection limits due to the dilution required by the sample matrix.

#### NJ EPH (Total)

L2434443-08D, -15D, -22D, and -29D: The surrogate recoveries are below the acceptance criteria for chloro-octadecane (0%) and o-terphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

L2434443-15D and -22D: The sample has an elevated detection limit due to the dilution required by matrix interferences encountered during the concentration of the sample.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

### Case Narrative (continued)

#### Pesticides

L2434443-07: The internal standard (IS) response for 1-bromo-2-nitrobenzene (373%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. Since the IS response was above method criteria, all associated compounds reported from this column are considered to have a potentially low bias. The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (21%) and decachlorobiphenyl (17%) due to interference with the Internal Standard.

L2434443-14: The internal standard (IS) response for 1-bromo-2-nitrobenzene (292%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. Since the IS response was above method criteria, all associated compounds reported from this column are considered to have a potentially low bias. The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (15%) and decachlorobiphenyl (13%) due to interference with the Internal Standard.

#### Total Metals

L2434443-07, -14, -21, -28, and -35: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

#### Hexavalent Chromium

The WG1938365-2 LCS recovery for chromium, hexavalent (124%), associated with L2434443-07, -14, -21, -28, and -35, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1938365-4 Insoluble MS recovery for chromium, hexavalent (1%), performed on L2434443-07, is below the acceptance criteria. The Soluble MS recovery for chromium, hexavalent (0%) was also below criteria. This has been attributed to matrix interference. A post-spike was performed with an acceptable recovery of 101%.

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:



Kelly O'Neill

Title: Technical Director/Representative

Date: 06/26/24

# ORGANICS

# VOLATILES

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-01  
 Client ID: WC06A\_GRAB\_2-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 11:20  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/22/24 17:54  
 Analyst: LAC  
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	420	190	1
1,1-Dichloroethane	ND		ug/kg	84	12.	1
Chloroform	ND		ug/kg	120	12.	1
Carbon tetrachloride	ND		ug/kg	84	19.	1
1,2-Dichloropropane	ND		ug/kg	84	10.	1
Dibromochloromethane	ND		ug/kg	84	12.	1
1,1,2-Trichloroethane	ND		ug/kg	84	22.	1
Tetrachloroethene	ND		ug/kg	42	16.	1
Chlorobenzene	ND		ug/kg	42	11.	1
Trichlorofluoromethane	ND		ug/kg	330	58.	1
1,2-Dichloroethane	ND		ug/kg	84	22.	1
1,1,1-Trichloroethane	ND		ug/kg	42	14.	1
Bromodichloromethane	ND		ug/kg	42	9.1	1
trans-1,3-Dichloropropene	ND		ug/kg	84	23.	1
cis-1,3-Dichloropropene	ND		ug/kg	42	13.	1
1,3-Dichloropropene, Total	ND		ug/kg	42	13.	1
1,1-Dichloropropene	ND		ug/kg	42	13.	1
Bromoform	ND		ug/kg	330	20.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	42	14.	1
Benzene	ND		ug/kg	42	14.	1
Toluene	69	J	ug/kg	84	45.	1
Ethylbenzene	35	J	ug/kg	84	12.	1
Chloromethane	ND		ug/kg	330	78.	1
Bromomethane	ND		ug/kg	170	49.	1
Vinyl chloride	ND		ug/kg	84	28.	1
Chloroethane	ND		ug/kg	170	38.	1
1,1-Dichloroethene	ND		ug/kg	84	20.	1
trans-1,2-Dichloroethene	ND		ug/kg	120	11.	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434443**Project Number:** 170562203**Report Date:** 06/26/24**SAMPLE RESULTS**

Lab ID: L2434443-01  
 Client ID: WC06A\_GRAB\_2-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 11:20  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	42	11.	1
1,2-Dichlorobenzene	ND		ug/kg	170	12.	1
1,3-Dichlorobenzene	ND		ug/kg	170	12.	1
1,4-Dichlorobenzene	ND		ug/kg	170	14.	1
Methyl tert butyl ether	ND		ug/kg	170	17.	1
p/m-Xylene	120	J	ug/kg	170	47.	1
o-Xylene	81	J	ug/kg	84	24.	1
Xylenes, Total	200	J	ug/kg	84	24.	1
cis-1,2-Dichloroethene	ND		ug/kg	84	15.	1
Dibromomethane	ND		ug/kg	170	20.	1
Styrene	ND		ug/kg	84	16.	1
Dichlorodifluoromethane	ND		ug/kg	840	77.	1
Acetone	640	J	ug/kg	840	400	1
Carbon disulfide	ND		ug/kg	840	380	1
2-Butanone	ND		ug/kg	840	180	1
Vinyl acetate	ND		ug/kg	840	180	1
4-Methyl-2-pentanone	ND		ug/kg	840	110	1
1,2,3-Trichloropropane	ND		ug/kg	170	11.	1
2-Hexanone	ND		ug/kg	840	99.	1
Bromochloromethane	ND		ug/kg	170	17.	1
2,2-Dichloropropane	ND		ug/kg	170	17.	1
1,2-Dibromoethane	ND		ug/kg	84	23.	1
1,3-Dichloropropane	ND		ug/kg	170	14.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	42	11.	1
Bromobenzene	ND		ug/kg	170	12.	1
n-Butylbenzene	30	J	ug/kg	84	14.	1
sec-Butylbenzene	31	J	ug/kg	84	12.	1
tert-Butylbenzene	12	J	ug/kg	170	9.9	1
o-Chlorotoluene	ND		ug/kg	170	16.	1
p-Chlorotoluene	ND		ug/kg	170	9.0	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	250	84.	1
Hexachlorobutadiene	ND		ug/kg	330	14.	1
Isopropylbenzene	370		ug/kg	84	9.1	1
p-Isopropyltoluene	22	J	ug/kg	84	9.1	1
Naphthalene	250	J	ug/kg	330	54.	1
Acrylonitrile	ND		ug/kg	330	96.	1
Tert-Butyl Alcohol	ND		ug/kg	1700	430	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-01  
 Client ID: WC06A\_GRAB\_2-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 11:20  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
n-Propylbenzene	48	J	ug/kg	84	14.	1
1,2,3-Trichlorobenzene	ND		ug/kg	170	27.	1
1,2,4-Trichlorobenzene	ND		ug/kg	170	23.	1
1,3,5-Trimethylbenzene	27	J	ug/kg	170	16.	1
1,2,4-Trimethylbenzene	76	J	ug/kg	170	28.	1
Methyl Acetate	120	J	ug/kg	330	80.	1
Acrolein	ND		ug/kg	2100	470	1
Cyclohexane	140	J	ug/kg	840	46.	1
1,4-Dioxane	ND		ug/kg	6700	2900	1
Freon-113	ND		ug/kg	330	58.	1
p-Diethylbenzene	27	J	ug/kg	170	15.	1
p-Ethyltoluene	57	J	ug/kg	170	32.	1
1,2,4,5-Tetramethylbenzene	93	J	ug/kg	170	16.	1
Ethyl ether	ND		ug/kg	170	28.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	420	120	1
Methyl cyclohexane	840		ug/kg	330	50.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	<b>152</b>	Q	70-130
Dibromofluoromethane	93		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-08  
 Client ID: WC06D\_GRAB\_7-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 12:30  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/22/24 18:21  
 Analyst: LAC  
 Percent Solids: 93%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	280	130	1
1,1-Dichloroethane	ND		ug/kg	56	8.2	1
Chloroform	ND		ug/kg	85	7.9	1
Carbon tetrachloride	ND		ug/kg	56	13.	1
1,2-Dichloropropane	ND		ug/kg	56	7.1	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	7.2	1
Trichlorofluoromethane	ND		ug/kg	230	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	6.2	1
trans-1,3-Dichloropropene	ND		ug/kg	56	15.	1
cis-1,3-Dichloropropene	ND		ug/kg	28	8.9	1
1,3-Dichloropropene, Total	ND		ug/kg	28	8.9	1
1,1-Dichloropropene	ND		ug/kg	28	9.0	1
Bromoform	ND		ug/kg	230	14.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	28	9.4	1
Benzene	ND		ug/kg	28	9.4	1
Toluene	42	J	ug/kg	56	31.	1
Ethylbenzene	27	J	ug/kg	56	8.0	1
Chloromethane	ND		ug/kg	230	53.	1
Bromomethane	ND		ug/kg	110	33.	1
Vinyl chloride	ND		ug/kg	56	19.	1
Chloroethane	ND		ug/kg	110	26.	1
1,1-Dichloroethene	ND		ug/kg	56	13.	1
trans-1,2-Dichloroethene	ND		ug/kg	85	7.8	1



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434443**Project Number:** 170562203**Report Date:** 06/26/24**SAMPLE RESULTS**

Lab ID: L2434443-08  
 Client ID: WC06D\_GRAB\_7-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 12:30  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatiles Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	28	7.8	1
1,2-Dichlorobenzene	ND		ug/kg	110	8.1	1
1,3-Dichlorobenzene	ND		ug/kg	110	8.4	1
1,4-Dichlorobenzene	ND		ug/kg	110	9.7	1
Methyl tert butyl ether	ND		ug/kg	110	11.	1
p/m-Xylene	600		ug/kg	110	32.	1
o-Xylene	230		ug/kg	56	16.	1
Xylenes, Total	830		ug/kg	56	16.	1
cis-1,2-Dichloroethene	ND		ug/kg	56	9.9	1
Dibromomethane	ND		ug/kg	110	13.	1
Styrene	ND		ug/kg	56	11.	1
Dichlorodifluoromethane	ND		ug/kg	560	52.	1
Acetone	510	J	ug/kg	560	270	1
Carbon disulfide	ND		ug/kg	560	260	1
2-Butanone	ND		ug/kg	560	120	1
Vinyl acetate	ND		ug/kg	560	120	1
4-Methyl-2-pentanone	ND		ug/kg	560	72.	1
1,2,3-Trichloropropane	ND		ug/kg	110	7.2	1
2-Hexanone	ND		ug/kg	560	67.	1
Bromochloromethane	ND		ug/kg	110	12.	1
2,2-Dichloropropane	ND		ug/kg	110	11.	1
1,2-Dibromoethane	ND		ug/kg	56	16.	1
1,3-Dichloropropane	ND		ug/kg	110	9.4	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	28	7.5	1
Bromobenzene	ND		ug/kg	110	8.2	1
n-Butylbenzene	410		ug/kg	56	9.4	1
sec-Butylbenzene	240		ug/kg	56	8.3	1
tert-Butylbenzene	65	J	ug/kg	110	6.7	1
o-Chlorotoluene	ND		ug/kg	110	11.	1
p-Chlorotoluene	ND		ug/kg	110	6.1	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	170	56.	1
Hexachlorobutadiene	ND		ug/kg	230	9.6	1
Isopropylbenzene	3800		ug/kg	56	6.2	1
p-Isopropyltoluene	1100		ug/kg	56	6.2	1
Naphthalene	1800		ug/kg	230	37.	1
Acrylonitrile	ND		ug/kg	230	65.	1
Tert-Butyl Alcohol	ND		ug/kg	1100	290	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-08  
 Client ID: WC06D\_GRAB\_7-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 12:30  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
n-Propylbenzene	820		ug/kg	56	9.7	1
1,2,3-Trichlorobenzene	ND		ug/kg	110	18.	1
1,2,4-Trichlorobenzene	ND		ug/kg	110	15.	1
1,3,5-Trimethylbenzene	730		ug/kg	110	11.	1
1,2,4-Trimethylbenzene	2800		ug/kg	110	19.	1
Methyl Acetate	280		ug/kg	230	54.	1
Acrolein	ND		ug/kg	1400	320	1
Cyclohexane	100	J	ug/kg	560	31.	1
1,4-Dioxane	ND		ug/kg	4500	2000	1
Freon-113	ND		ug/kg	230	39.	1
p-Diethylbenzene	580		ug/kg	110	10.	1
p-Ethyltoluene	1000		ug/kg	110	22.	1
1,2,4,5-Tetramethylbenzene	1400		ug/kg	110	11.	1
Ethyl ether	ND		ug/kg	110	19.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	280	80.	1
Methyl cyclohexane	620		ug/kg	230	34.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	90		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	82		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-15  
 Client ID: WC11D\_GRAB\_2-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 14:00  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/24/24 14:02  
 Analyst: JIC  
 Percent Solids: 62%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	850	390	1
1,1-Dichloroethane	ND		ug/kg	170	25.	1
Chloroform	ND		ug/kg	260	24.	1
Carbon tetrachloride	ND		ug/kg	170	39.	1
1,2-Dichloropropane	ND		ug/kg	170	21.	1
Dibromochloromethane	ND		ug/kg	170	24.	1
1,1,2-Trichloroethane	ND		ug/kg	170	45.	1
Tetrachloroethene	ND		ug/kg	85	33.	1
Chlorobenzene	ND		ug/kg	85	22.	1
Trichlorofluoromethane	ND		ug/kg	680	120	1
1,2-Dichloroethane	ND		ug/kg	170	44.	1
1,1,1-Trichloroethane	ND		ug/kg	85	28.	1
Bromodichloromethane	ND		ug/kg	85	18.	1
trans-1,3-Dichloropropene	ND		ug/kg	170	46.	1
cis-1,3-Dichloropropene	ND		ug/kg	85	27.	1
1,3-Dichloropropene, Total	ND		ug/kg	85	27.	1
1,1-Dichloropropene	ND		ug/kg	85	27.	1
Bromoform	ND		ug/kg	680	42.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	85	28.	1
Benzene	18000		ug/kg	85	28.	1
Toluene	64000	E	ug/kg	170	92.	1
Ethylbenzene	24000		ug/kg	170	24.	1
Chloromethane	ND		ug/kg	680	160	1
Bromomethane	ND		ug/kg	340	99.	1
Vinyl chloride	ND		ug/kg	170	57.	1
Chloroethane	ND		ug/kg	340	77.	1
1,1-Dichloroethene	ND		ug/kg	170	40.	1
trans-1,2-Dichloroethene	ND		ug/kg	260	23.	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434443**Project Number:** 170562203**Report Date:** 06/26/24**SAMPLE RESULTS**

Lab ID: L2434443-15  
 Client ID: WC11D\_GRAB\_2-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 14:00  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatiles Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	85	23.	1
1,2-Dichlorobenzene	ND		ug/kg	340	24.	1
1,3-Dichlorobenzene	ND		ug/kg	340	25.	1
1,4-Dichlorobenzene	ND		ug/kg	340	29.	1
Methyl tert butyl ether	ND		ug/kg	340	34.	1
p/m-Xylene	68000		ug/kg	340	95.	1
o-Xylene	28000		ug/kg	170	50.	1
Xylenes, Total	96000		ug/kg	170	50.	1
cis-1,2-Dichloroethene	ND		ug/kg	170	30.	1
Dibromomethane	ND		ug/kg	340	40.	1
Styrene	ND		ug/kg	170	33.	1
Dichlorodifluoromethane	ND		ug/kg	1700	160	1
Acetone	ND		ug/kg	1700	820	1
Carbon disulfide	ND		ug/kg	1700	780	1
2-Butanone	ND		ug/kg	1700	380	1
Vinyl acetate	ND		ug/kg	1700	370	1
4-Methyl-2-pentanone	ND		ug/kg	1700	220	1
1,2,3-Trichloropropane	ND		ug/kg	340	22.	1
2-Hexanone	ND		ug/kg	1700	200	1
Bromochloromethane	ND		ug/kg	340	35.	1
2,2-Dichloropropane	ND		ug/kg	340	34.	1
1,2-Dibromoethane	ND		ug/kg	170	48.	1
1,3-Dichloropropane	ND		ug/kg	340	28.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	85	22.	1
Bromobenzene	ND		ug/kg	340	25.	1
n-Butylbenzene	2200		ug/kg	170	28.	1
sec-Butylbenzene	630		ug/kg	170	25.	1
tert-Butylbenzene	ND		ug/kg	340	20.	1
o-Chlorotoluene	ND		ug/kg	340	32.	1
p-Chlorotoluene	ND		ug/kg	340	18.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	510	170	1
Hexachlorobutadiene	ND		ug/kg	680	29.	1
Isopropylbenzene	1900		ug/kg	170	18.	1
p-Isopropyltoluene	1000		ug/kg	170	18.	1
Naphthalene	36000		ug/kg	680	110	1
Acrylonitrile	ND		ug/kg	680	200	1
Tert-Butyl Alcohol	ND		ug/kg	3400	880	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434443**Project Number:** 170562203**Report Date:** 06/26/24**SAMPLE RESULTS**

Lab ID: L2434443-15  
 Client ID: WC11D\_GRAB\_2-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 14:00  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
n-Propylbenzene	5100		ug/kg	170	29.	1
1,2,3-Trichlorobenzene	ND		ug/kg	340	55.	1
1,2,4-Trichlorobenzene	ND		ug/kg	340	46.	1
1,3,5-Trimethylbenzene	24000		ug/kg	340	33.	1
1,2,4-Trimethylbenzene	22000		ug/kg	340	57.	1
Methyl Acetate	7300		ug/kg	680	160	1
Acrolein	ND		ug/kg	4200	960	1
Cyclohexane	14000		ug/kg	1700	93.	1
1,4-Dioxane	ND		ug/kg	14000	6000	1
Freon-113	ND		ug/kg	680	120	1
p-Diethylbenzene	ND		ug/kg	340	30.	1
p-Ethyltoluene	34000		ug/kg	340	65.	1
1,2,4,5-Tetramethylbenzene	3200		ug/kg	340	32.	1
Ethyl ether	ND		ug/kg	340	58.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	850	240	1
Methyl cyclohexane	58000	E	ug/kg	680	100	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	91		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	88		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-15 D  
 Client ID: WC11D\_GRAB\_2-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 14:00  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/22/24 18:47  
 Analyst: LAC  
 Percent Solids: 62%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Toluene	65000		ug/kg	1700	920	10
Methyl cyclohexane	73000		ug/kg	6800	1000	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	92		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	92		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-22  
 Client ID: WC11B\_GRAB\_5-7  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 15:00  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/24/24 15:27  
 Analyst: JIC  
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
1,2-Dichloropropane	ND		ug/kg	1.1	0.14	1
Dibromochloromethane	ND		ug/kg	1.1	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.1	0.29	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
Trichlorofluoromethane	ND		ug/kg	4.4	0.76	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Bromodichloromethane	ND		ug/kg	0.54	0.12	1
trans-1,3-Dichloropropene	ND		ug/kg	1.1	0.30	1
cis-1,3-Dichloropropene	ND		ug/kg	0.54	0.17	1
1,3-Dichloropropene, Total	ND		ug/kg	0.54	0.17	1
1,1-Dichloropropene	ND		ug/kg	0.54	0.17	1
Bromoform	ND		ug/kg	4.4	0.27	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.54	0.18	1
Benzene	0.24	J	ug/kg	0.54	0.18	1
Toluene	0.78	J	ug/kg	1.1	0.59	1
Ethylbenzene	0.66	J	ug/kg	1.1	0.15	1
Chloromethane	ND		ug/kg	4.4	1.0	1
Bromomethane	ND		ug/kg	2.2	0.63	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
Chloroethane	ND		ug/kg	2.2	0.49	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434443**Project Number:** 170562203**Report Date:** 06/26/24**SAMPLE RESULTS**

Lab ID: L2434443-22  
 Client ID: WC11B\_GRAB\_5-7  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 15:00  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	10		ug/kg	2.2	0.61	1
o-Xylene	19		ug/kg	1.1	0.32	1
Xylenes, Total	29		ug/kg	1.1	0.32	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Dibromomethane	ND		ug/kg	2.2	0.26	1
Styrene	ND		ug/kg	1.1	0.21	1
Dichlorodifluoromethane	ND		ug/kg	11	1.0	1
Acetone	130		ug/kg	11	5.2	1
Carbon disulfide	ND		ug/kg	11	5.0	1
2-Butanone	ND		ug/kg	11	2.4	1
Vinyl acetate	ND		ug/kg	11	2.3	1
4-Methyl-2-pentanone	ND		ug/kg	11	1.4	1
1,2,3-Trichloropropane	ND		ug/kg	2.2	0.14	1
2-Hexanone	ND		ug/kg	11	1.3	1
Bromochloromethane	ND		ug/kg	2.2	0.22	1
2,2-Dichloropropane	ND		ug/kg	2.2	0.22	1
1,2-Dibromoethane	ND		ug/kg	1.1	0.30	1
1,3-Dichloropropane	ND		ug/kg	2.2	0.18	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.54	0.14	1
Bromobenzene	ND		ug/kg	2.2	0.16	1
n-Butylbenzene	7.3		ug/kg	1.1	0.18	1
sec-Butylbenzene	2.3		ug/kg	1.1	0.16	1
tert-Butylbenzene	0.18	J	ug/kg	2.2	0.13	1
o-Chlorotoluene	ND		ug/kg	2.2	0.21	1
p-Chlorotoluene	ND		ug/kg	2.2	0.12	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.3	1.1	1
Hexachlorobutadiene	ND		ug/kg	4.4	0.18	1
Isopropylbenzene	15		ug/kg	1.1	0.12	1
p-Isopropyltoluene	11		ug/kg	1.1	0.12	1
Naphthalene	7.6		ug/kg	4.4	0.71	1
Acrylonitrile	ND		ug/kg	4.4	1.2	1
Tert-Butyl Alcohol	ND		ug/kg	22	5.6	1



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-22  
 Client ID: WC11B\_GRAB\_5-7  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 15:00  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	8.7		ug/kg	1.1	0.19	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.2	0.35	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.2	0.30	1
1,3,5-Trimethylbenzene	6.1		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	9.6		ug/kg	2.2	0.36	1
Methyl Acetate	ND		ug/kg	4.4	1.0	1
Acrolein	ND		ug/kg	27	6.1	1
Cyclohexane	10	J	ug/kg	11	0.59	1
1,4-Dioxane	ND		ug/kg	87	38.	1
Freon-113	ND		ug/kg	4.4	0.76	1
p-Diethylbenzene	6.3		ug/kg	2.2	0.19	1
p-Ethyltoluene	8.6		ug/kg	2.2	0.42	1
1,2,4,5-Tetramethylbenzene	12		ug/kg	2.2	0.21	1
Ethyl ether	ND		ug/kg	2.2	0.37	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.4	1.5	1
Methyl cyclohexane	43		ug/kg	4.4	0.66	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	124		70-130
Dibromofluoromethane	97		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-29  
 Client ID: WC06D\_GRAB\_10-12  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 15:35  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/24/24 14:28  
 Analyst: JIC  
 Percent Solids: 97%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	300	140	1
1,1-Dichloroethane	ND		ug/kg	60	8.8	1
Chloroform	ND		ug/kg	91	8.5	1
Carbon tetrachloride	ND		ug/kg	60	14.	1
1,2-Dichloropropane	ND		ug/kg	60	7.6	1
Dibromochloromethane	ND		ug/kg	60	8.5	1
1,1,2-Trichloroethane	ND		ug/kg	60	16.	1
Tetrachloroethene	ND		ug/kg	30	12.	1
Chlorobenzene	ND		ug/kg	30	7.7	1
Trichlorofluoromethane	ND		ug/kg	240	42.	1
1,2-Dichloroethane	ND		ug/kg	60	16.	1
1,1,1-Trichloroethane	ND		ug/kg	30	10.	1
Bromodichloromethane	ND		ug/kg	30	6.6	1
trans-1,3-Dichloropropene	ND		ug/kg	60	16.	1
cis-1,3-Dichloropropene	ND		ug/kg	30	9.6	1
1,3-Dichloropropene, Total	ND		ug/kg	30	9.6	1
1,1-Dichloropropene	ND		ug/kg	30	9.6	1
Bromoform	ND		ug/kg	240	15.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	30	10.	1
Benzene	10	J	ug/kg	30	10.	1
Toluene	33	J	ug/kg	60	33.	1
Ethylbenzene	24	J	ug/kg	60	8.5	1
Chloromethane	ND		ug/kg	240	56.	1
Bromomethane	ND		ug/kg	120	35.	1
Vinyl chloride	ND		ug/kg	60	20.	1
Chloroethane	ND		ug/kg	120	27.	1
1,1-Dichloroethene	ND		ug/kg	60	14.	1
trans-1,2-Dichloroethene	ND		ug/kg	91	8.3	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434443**Project Number:** 170562203**Report Date:** 06/26/24**SAMPLE RESULTS**

Lab ID: L2434443-29  
 Client ID: WC06D\_GRAB\_10-12  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 15:35  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	30	8.3	1
1,2-Dichlorobenzene	ND		ug/kg	120	8.7	1
1,3-Dichlorobenzene	ND		ug/kg	120	9.0	1
1,4-Dichlorobenzene	ND		ug/kg	120	10.	1
Methyl tert butyl ether	ND		ug/kg	120	12.	1
p/m-Xylene	130		ug/kg	120	34.	1
o-Xylene	120		ug/kg	60	18.	1
Xylenes, Total	250		ug/kg	60	18.	1
cis-1,2-Dichloroethene	ND		ug/kg	60	11.	1
Dibromomethane	ND		ug/kg	120	14.	1
Styrene	ND		ug/kg	60	12.	1
Dichlorodifluoromethane	ND		ug/kg	600	55.	1
Acetone	350	J	ug/kg	600	290	1
Carbon disulfide	ND		ug/kg	600	280	1
2-Butanone	ND		ug/kg	600	130	1
Vinyl acetate	ND		ug/kg	600	130	1
4-Methyl-2-pentanone	ND		ug/kg	600	78.	1
1,2,3-Trichloropropane	ND		ug/kg	120	7.7	1
2-Hexanone	ND		ug/kg	600	72.	1
Bromochloromethane	ND		ug/kg	120	12.	1
2,2-Dichloropropane	ND		ug/kg	120	12.	1
1,2-Dibromoethane	ND		ug/kg	60	17.	1
1,3-Dichloropropane	ND		ug/kg	120	10.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	30	8.0	1
Bromobenzene	ND		ug/kg	120	8.8	1
n-Butylbenzene	3800		ug/kg	60	10.	1
sec-Butylbenzene	1800		ug/kg	60	8.8	1
tert-Butylbenzene	210		ug/kg	120	7.2	1
o-Chlorotoluene	ND		ug/kg	120	12.	1
p-Chlorotoluene	ND		ug/kg	120	6.5	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	180	60.	1
Hexachlorobutadiene	ND		ug/kg	240	10.	1
Isopropylbenzene	3600		ug/kg	60	6.6	1
p-Isopropyltoluene	380		ug/kg	60	6.6	1
Naphthalene	670		ug/kg	240	39.	1
Acrylonitrile	ND		ug/kg	240	70.	1
Tert-Butyl Alcohol	ND		ug/kg	1200	310	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-29  
 Client ID: WC06D\_GRAB\_10-12  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 15:35  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
n-Propylbenzene	3000		ug/kg	60	10.	1
1,2,3-Trichlorobenzene	ND		ug/kg	120	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	16.	1
1,3,5-Trimethylbenzene	1400		ug/kg	120	12.	1
1,2,4-Trimethylbenzene	9000		ug/kg	120	20.	1
Methyl Acetate	240		ug/kg	240	58.	1
Acrolein	ND		ug/kg	1500	340	1
Cyclohexane	ND		ug/kg	600	33.	1
1,4-Dioxane	ND		ug/kg	4800	2100	1
Freon-113	ND		ug/kg	240	42.	1
p-Diethylbenzene	2200		ug/kg	120	11.	1
p-Ethyltoluene	490		ug/kg	120	23.	1
1,2,4,5-Tetramethylbenzene	8900		ug/kg	120	12.	1
Ethyl ether	ND		ug/kg	120	21.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	300	86.	1
Methyl cyclohexane	260		ug/kg	240	36.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	97		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	90		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/24/24 09:16  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 22 Batch: WG1938530-5					
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
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-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

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/24/24 09:16  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 22 Batch: WG1938530-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
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
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Dibromomethane	ND		ug/kg	2.0	0.24
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
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
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
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/24/24 09:16  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 22 Batch: WG1938530-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
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
Acrylonitrile	ND		ug/kg	4.0	1.2
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
Acrolein	ND		ug/kg	25	5.6
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Methyl cyclohexane	ND		ug/kg	4.0	0.60

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/24/24 09:16  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 22 Batch: WG1938530-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	99		70-130



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/22/24 11:20  
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01,08,15 Batch: WG1938619-5					
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
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
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	ND		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

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/22/24 11:20  
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01,08,15 Batch: WG1938619-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
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.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Dibromomethane	ND		ug/kg	100	12.
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
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6
p-Chlorotoluene	ND		ug/kg	100	5.4

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/22/24 11:20  
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01,08,15 Batch: WG1938619-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
Tert-Butyl Alcohol	ND		ug/kg	1000	260
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
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.
Acrolein	ND		ug/kg	1200	280
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.
Methyl cyclohexane	ND		ug/kg	200	30.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**Method Blank Analysis  
 Batch Quality Control**

Analytical Method: 1,8260D  
 Analytical Date: 06/22/24 11:20  
 Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01,08,15 Batch: WG1938619-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/24/24 09:16  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 15,29 Batch: WG1939002-5					
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
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
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	ND		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

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/24/24 09:16  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 15,29 Batch: WG1939002-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
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.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Dibromomethane	ND		ug/kg	100	12.
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
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6
p-Chlorotoluene	ND		ug/kg	100	5.4

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/24/24 09:16  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 15,29 Batch: WG1939002-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
Tert-Butyl Alcohol	ND		ug/kg	1000	260
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
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.
Acrolein	ND		ug/kg	1200	280
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.
Methyl cyclohexane	ND		ug/kg	200	30.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/24/24 09:16  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 15,29 Batch: WG1939002-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	90		70-130
Dibromofluoromethane	99		70-130



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434443

Project Number: 170562203

Report Date: 06/26/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 22 Batch: WG1938530-3 WG1938530-4								
Methylene chloride	97		91		70-130	6		30
1,1-Dichloroethane	100		96		70-130	4		30
Chloroform	91		89		70-130	2		30
Carbon tetrachloride	91		90		70-130	1		30
1,2-Dichloropropane	98		98		70-130	0		30
Dibromochloromethane	96		95		70-130	1		30
1,1,2-Trichloroethane	94		92		70-130	2		30
Tetrachloroethene	98		97		70-130	1		30
Chlorobenzene	100		100		70-130	0		30
Trichlorofluoromethane	107		101		70-139	6		30
1,2-Dichloroethane	91		90		70-130	1		30
1,1,1-Trichloroethane	93		93		70-130	0		30
Bromodichloromethane	89		89		70-130	0		30
trans-1,3-Dichloropropene	100		98		70-130	2		30
cis-1,3-Dichloropropene	95		96		70-130	1		30
1,1-Dichloropropene	98		98		70-130	0		30
Bromoform	91		89		70-130	2		30
1,1,2,2-Tetrachloroethane	96		95		70-130	1		30
Benzene	99		98		70-130	1		30
Toluene	100		98		70-130	2		30
Ethylbenzene	99		99		70-130	0		30
Chloromethane	87		79		52-130	10		30
Bromomethane	123		112		57-147	9		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434443

Project Number: 170562203

Report Date: 06/26/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 22 Batch: WG1938530-3 WG1938530-4								
Vinyl chloride	111		102		67-130	8		30
Chloroethane	118		109		50-151	8		30
1,1-Dichloroethene	99		93		65-135	6		30
trans-1,2-Dichloroethene	99		94		70-130	5		30
Trichloroethene	91		91		70-130	0		30
1,2-Dichlorobenzene	101		100		70-130	1		30
1,3-Dichlorobenzene	103		103		70-130	0		30
1,4-Dichlorobenzene	101		102		70-130	1		30
Methyl tert butyl ether	96		91		66-130	5		30
p/m-Xylene	100		100		70-130	0		30
o-Xylene	98		98		70-130	0		30
cis-1,2-Dichloroethene	96		94		70-130	2		30
Dibromomethane	91		91		70-130	0		30
Styrene	101		102		70-130	1		30
Dichlorodifluoromethane	93		86		30-146	8		30
Acetone	80		77		54-140	4		30
Carbon disulfide	99		93		59-130	6		30
2-Butanone	76		83		70-130	9		30
Vinyl acetate	95		93		70-130	2		30
4-Methyl-2-pentanone	102		99		70-130	3		30
1,2,3-Trichloropropane	94		93		68-130	1		30
2-Hexanone	85		82		70-130	4		30
Bromochloromethane	95		92		70-130	3		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434443

Project Number: 170562203

Report Date: 06/26/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 22 Batch: WG1938530-3 WG1938530-4								
2,2-Dichloropropane	94		92		70-130	2		30
1,2-Dibromoethane	92		91		70-130	1		30
1,3-Dichloropropane	100		96		69-130	4		30
1,1,1,2-Tetrachloroethane	94		92		70-130	2		30
Bromobenzene	100		99		70-130	1		30
n-Butylbenzene	106		108		70-130	2		30
sec-Butylbenzene	101		102		70-130	1		30
tert-Butylbenzene	99		100		70-130	1		30
o-Chlorotoluene	98		99		70-130	1		30
p-Chlorotoluene	97		97		70-130	0		30
1,2-Dibromo-3-chloropropane	90		92		68-130	2		30
Hexachlorobutadiene	109		110		67-130	1		30
Isopropylbenzene	100		101		70-130	1		30
p-Isopropyltoluene	104		105		70-130	1		30
Naphthalene	97		98		70-130	1		30
Acrylonitrile	92		90		70-130	2		30
Tert-Butyl Alcohol	102		98		70-130	4		30
n-Propylbenzene	102		103		70-130	1		30
1,2,3-Trichlorobenzene	106		105		70-130	1		30
1,2,4-Trichlorobenzene	114		115		70-130	1		30
1,3,5-Trimethylbenzene	100		100		70-130	0		30
1,2,4-Trimethylbenzene	101		102		70-130	1		30
Methyl Acetate	84		81		51-146	4		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2434443

Report Date: 06/26/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 22 Batch: WG1938530-3 WG1938530-4								
Acrolein	146	Q	136	Q	70-130	7		30
Cyclohexane	99		98		59-142	1		30
1,4-Dioxane	111		111		65-136	0		30
Freon-113	105		101		50-139	4		30
p-Diethylbenzene	106		107		70-130	1		30
p-Ethyltoluene	101		103		70-130	2		30
1,2,4,5-Tetramethylbenzene	103		104		70-130	1		30
Ethyl ether	100		92		67-130	8		30
trans-1,4-Dichloro-2-butene	89		94		70-130	5		30
Methyl cyclohexane	94		96		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		89		70-130
Toluene-d8	99		97		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	95		92		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434443

Project Number: 170562203

Report Date: 06/26/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,08,15 Batch: WG1938619-3 WG1938619-4								
Methylene chloride	97		99		70-130	2		30
1,1-Dichloroethane	104		106		70-130	2		30
Chloroform	96		96		70-130	0		30
Carbon tetrachloride	93		99		70-130	6		30
1,2-Dichloropropane	106		106		70-130	0		30
Dibromochloromethane	105		102		70-130	3		30
1,1,2-Trichloroethane	102		99		70-130	3		30
Tetrachloroethene	99		108		70-130	9		30
Chlorobenzene	105		107		70-130	2		30
Trichlorofluoromethane	105		116		70-139	10		30
1,2-Dichloroethane	99		97		70-130	2		30
1,1,1-Trichloroethane	96		100		70-130	4		30
Bromodichloromethane	98		96		70-130	2		30
trans-1,3-Dichloropropene	108		105		70-130	3		30
cis-1,3-Dichloropropene	104		103		70-130	1		30
1,1-Dichloropropene	100		108		70-130	8		30
Bromoform	99		93		70-130	6		30
1,1,2,2-Tetrachloroethane	106		102		70-130	4		30
Benzene	104		107		70-130	3		30
Toluene	104		108		70-130	4		30
Ethylbenzene	103		107		70-130	4		30
Chloromethane	84		91		52-130	8		30
Bromomethane	123		129		57-147	5		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434443

Project Number: 170562203

Report Date: 06/26/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,08,15 Batch: WG1938619-3 WG1938619-4								
Vinyl chloride	108		120		67-130	11		30
Chloroethane	117		125		50-151	7		30
1,1-Dichloroethene	97		106		65-135	9		30
trans-1,2-Dichloroethene	98		104		70-130	6		30
Trichloroethene	95		98		70-130	3		30
1,2-Dichlorobenzene	107		106		70-130	1		30
1,3-Dichlorobenzene	107		109		70-130	2		30
1,4-Dichlorobenzene	104		108		70-130	4		30
Methyl tert butyl ether	101		97		66-130	4		30
p/m-Xylene	104		109		70-130	5		30
o-Xylene	104		107		70-130	3		30
cis-1,2-Dichloroethene	96		98		70-130	2		30
Dibromomethane	101		97		70-130	4		30
Styrene	107		109		70-130	2		30
Dichlorodifluoromethane	91		102		30-146	11		30
Acetone	101		88		54-140	14		30
Carbon disulfide	96		105		59-130	9		30
2-Butanone	94		89		70-130	5		30
Vinyl acetate	103		104		70-130	1		30
4-Methyl-2-pentanone	109		105		70-130	4		30
1,2,3-Trichloropropane	104		99		68-130	5		30
2-Hexanone	93		89		70-130	4		30
Bromochloromethane	100		98		70-130	2		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434443

Project Number: 170562203

Report Date: 06/26/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,08,15 Batch: WG1938619-3 WG1938619-4								
2,2-Dichloropropane	96		102		70-130	6		30
1,2-Dibromoethane	100		96		70-130	4		30
1,3-Dichloropropane	106		104		69-130	2		30
1,1,1,2-Tetrachloroethane	99		100		70-130	1		30
Bromobenzene	106		105		70-130	1		30
n-Butylbenzene	106		118		70-130	11		30
sec-Butylbenzene	105		112		70-130	6		30
tert-Butylbenzene	104		109		70-130	5		30
o-Chlorotoluene	102		105		70-130	3		30
p-Chlorotoluene	100		104		70-130	4		30
1,2-Dibromo-3-chloropropane	100		94		68-130	6		30
Hexachlorobutadiene	110		120		67-130	9		30
Isopropylbenzene	104		109		70-130	5		30
p-Isopropyltoluene	107		115		70-130	7		30
Naphthalene	105		99		70-130	6		30
Acrylonitrile	102		93		70-130	9		30
Tert-Butyl Alcohol	107		104		70-130	3		30
n-Propylbenzene	105		112		70-130	6		30
1,2,3-Trichlorobenzene	110		107		70-130	3		30
1,2,4-Trichlorobenzene	116		119		70-130	3		30
1,3,5-Trimethylbenzene	105		109		70-130	4		30
1,2,4-Trimethylbenzene	106		109		70-130	3		30
Methyl Acetate	90		85		51-146	6		30

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,08,15 Batch: WG1938619-3 WG1938619-4								
Acrolein	158	Q	147	Q	70-130	7		30
Cyclohexane	102		111		59-142	8		30
1,4-Dioxane	125		119		65-136	5		30
Freon-113	104		114		50-139	9		30
p-Diethylbenzene	106		116		70-130	9		30
p-Ethyltoluene	104		111		70-130	7		30
1,2,4,5-Tetramethylbenzene	106		110		70-130	4		30
Ethyl ether	102		101		67-130	1		30
trans-1,4-Dichloro-2-butene	104		99		70-130	5		30
Methyl cyclohexane	99		108		70-130	9		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		91		70-130
Toluene-d8	97		99		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	94		94		70-130





## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434443

Project Number: 170562203

Report Date: 06/26/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15,29 Batch: WG1939002-3 WG1939002-4								
Methylene chloride	97		91		70-130	6		30
1,1-Dichloroethane	100		96		70-130	4		30
Chloroform	91		89		70-130	2		30
Carbon tetrachloride	91		90		70-130	1		30
1,2-Dichloropropane	98		98		70-130	0		30
Dibromochloromethane	96		95		70-130	1		30
1,1,2-Trichloroethane	94		92		70-130	2		30
Tetrachloroethene	98		97		70-130	1		30
Chlorobenzene	100		100		70-130	0		30
Trichlorofluoromethane	107		101		70-139	6		30
1,2-Dichloroethane	91		90		70-130	1		30
1,1,1-Trichloroethane	93		93		70-130	0		30
Bromodichloromethane	89		89		70-130	0		30
trans-1,3-Dichloropropene	100		98		70-130	2		30
cis-1,3-Dichloropropene	95		96		70-130	1		30
1,1-Dichloropropene	98		98		70-130	0		30
Bromoform	91		89		70-130	2		30
1,1,2,2-Tetrachloroethane	96		95		70-130	1		30
Benzene	99		98		70-130	1		30
Toluene	100		98		70-130	2		30
Ethylbenzene	99		99		70-130	0		30
Chloromethane	87		79		52-130	10		30
Bromomethane	123		112		57-147	9		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434443

Project Number: 170562203

Report Date: 06/26/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15,29 Batch: WG1939002-3 WG1939002-4								
Vinyl chloride	111		102		67-130	8		30
Chloroethane	118		109		50-151	8		30
1,1-Dichloroethene	99		93		65-135	6		30
trans-1,2-Dichloroethene	99		94		70-130	5		30
Trichloroethene	91		91		70-130	0		30
1,2-Dichlorobenzene	101		100		70-130	1		30
1,3-Dichlorobenzene	103		103		70-130	0		30
1,4-Dichlorobenzene	101		102		70-130	1		30
Methyl tert butyl ether	96		91		66-130	5		30
p/m-Xylene	100		100		70-130	0		30
o-Xylene	98		98		70-130	0		30
cis-1,2-Dichloroethene	96		94		70-130	2		30
Dibromomethane	91		91		70-130	0		30
Styrene	101		102		70-130	1		30
Dichlorodifluoromethane	93		86		30-146	8		30
Acetone	80		77		54-140	4		30
Carbon disulfide	99		93		59-130	6		30
2-Butanone	76		83		70-130	9		30
Vinyl acetate	95		93		70-130	2		30
4-Methyl-2-pentanone	102		99		70-130	3		30
1,2,3-Trichloropropane	94		93		68-130	1		30
2-Hexanone	85		82		70-130	4		30
Bromochloromethane	95		92		70-130	3		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2434443

**Project Number:** 170562203

**Report Date:** 06/26/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15,29 Batch: WG1939002-3 WG1939002-4								
2,2-Dichloropropane	94		92		70-130	2		30
1,2-Dibromoethane	92		91		70-130	1		30
1,3-Dichloropropane	100		96		69-130	4		30
1,1,1,2-Tetrachloroethane	94		92		70-130	2		30
Bromobenzene	100		99		70-130	1		30
n-Butylbenzene	106		108		70-130	2		30
sec-Butylbenzene	101		102		70-130	1		30
tert-Butylbenzene	99		100		70-130	1		30
o-Chlorotoluene	98		99		70-130	1		30
p-Chlorotoluene	97		97		70-130	0		30
1,2-Dibromo-3-chloropropane	90		92		68-130	2		30
Hexachlorobutadiene	109		110		67-130	1		30
Isopropylbenzene	100		101		70-130	1		30
p-Isopropyltoluene	104		105		70-130	1		30
Naphthalene	97		98		70-130	1		30
Acrylonitrile	92		90		70-130	2		30
Tert-Butyl Alcohol	102		98		70-130	4		30
n-Propylbenzene	102		103		70-130	1		30
1,2,3-Trichlorobenzene	106		105		70-130	1		30
1,2,4-Trichlorobenzene	114		115		70-130	1		30
1,3,5-Trimethylbenzene	100		100		70-130	0		30
1,2,4-Trimethylbenzene	101		102		70-130	1		30
Methyl Acetate	84		81		51-146	4		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 15,29 Batch: WG1939002-3 WG1939002-4								
Acrolein	146	Q	136	Q	70-130	7		30
Cyclohexane	99		98		59-142	1		30
1,4-Dioxane	111		111		65-136	0		30
Freon-113	105		101		50-139	4		30
p-Diethylbenzene	106		107		70-130	1		30
p-Ethyltoluene	101		103		70-130	2		30
1,2,4,5-Tetramethylbenzene	103		104		70-130	1		30
Ethyl ether	100		92		67-130	8		30
trans-1,4-Dichloro-2-butene	89		94		70-130	5		30
Methyl cyclohexane	94		96		70-130	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	91		89		70-130
Toluene-d8	99		97		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	95		92		70-130



# SEMIVOLATILES

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-07 D  
 Client ID: WC06\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 11:55  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/26/24 06:09  
 Analyst: SZ  
 Percent Solids: 86%

Extraction Method: EPA 3546  
 Extraction Date: 06/23/24 12:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	2200		ug/kg	1500	200	10
Benzidine	ND		ug/kg	6200	2000	10
1,2,4-Trichlorobenzene	ND		ug/kg	1900	220	10
Hexachlorobenzene	ND		ug/kg	1100	210	10
Bis(2-chloroethyl)ether	ND		ug/kg	1700	260	10
2-Chloronaphthalene	ND		ug/kg	1900	190	10
1,2-Dichlorobenzene	ND		ug/kg	1900	340	10
1,3-Dichlorobenzene	ND		ug/kg	1900	320	10
1,4-Dichlorobenzene	ND		ug/kg	1900	330	10
3,3'-Dichlorobenzidine	ND		ug/kg	1900	500	10
2,4-Dinitrotoluene	ND		ug/kg	1900	380	10
2,6-Dinitrotoluene	ND		ug/kg	1900	320	10
Azobenzene	ND		ug/kg	1900	180	10
Fluoranthene	59000		ug/kg	1100	220	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1900	200	10
4-Bromophenyl phenyl ether	ND		ug/kg	1900	290	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2300	320	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2000	190	10
Hexachlorobutadiene	ND		ug/kg	1900	280	10
Hexachlorocyclopentadiene	ND		ug/kg	5400	1700	10
Hexachloroethane	ND		ug/kg	1500	300	10
Isophorone	ND		ug/kg	1700	240	10
Naphthalene	7300		ug/kg	1900	230	10
Nitrobenzene	ND		ug/kg	1700	280	10
NDPA/DPA	ND		ug/kg	1500	210	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1900	290	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1900	650	10
Butyl benzyl phthalate	ND		ug/kg	1900	470	10

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434443**Project Number:** 170562203**Report Date:** 06/26/24**SAMPLE RESULTS**

Lab ID: L2434443-07 D  
 Client ID: WC06\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 11:55  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Di-n-butylphthalate	ND		ug/kg	1900	360	10
Di-n-octylphthalate	ND		ug/kg	1900	640	10
Diethyl phthalate	ND		ug/kg	1900	170	10
Dimethyl phthalate	ND		ug/kg	1900	400	10
Benzo(a)anthracene	24000		ug/kg	1100	210	10
Benzo(a)pyrene	22000		ug/kg	1500	460	10
Benzo(b)fluoranthene	30000		ug/kg	1100	320	10
Benzo(k)fluoranthene	8300		ug/kg	1100	300	10
Chrysene	24000		ug/kg	1100	200	10
Acenaphthylene	6100		ug/kg	1500	290	10
Anthracene	8300		ug/kg	1100	370	10
Benzo(ghi)perylene	14000		ug/kg	1500	220	10
Fluorene	6500		ug/kg	1900	180	10
Phenanthrene	46000		ug/kg	1100	230	10
Dibenzo(a,h)anthracene	3500		ug/kg	1100	220	10
Indeno(1,2,3-cd)pyrene	11000		ug/kg	1500	260	10
Pyrene	48000		ug/kg	1100	190	10
Biphenyl	740	J	ug/kg	4300	240	10
4-Chloroaniline	ND		ug/kg	1900	340	10
2-Nitroaniline	ND		ug/kg	1900	360	10
3-Nitroaniline	ND		ug/kg	1900	360	10
4-Nitroaniline	ND		ug/kg	1900	780	10
Dibenzofuran	3100		ug/kg	1900	180	10
2-Methylnaphthalene	2900		ug/kg	2300	230	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1900	200	10
Acetophenone	ND		ug/kg	1900	230	10
n-Nitrosodimethylamine	ND		ug/kg	3800	360	10
2,4,6-Trichlorophenol	ND		ug/kg	1100	360	10
p-Chloro-m-cresol	ND		ug/kg	1900	280	10
2-Chlorophenol	ND		ug/kg	1900	220	10
2,4-Dichlorophenol	ND		ug/kg	1700	300	10
2,4-Dimethylphenol	ND		ug/kg	1900	620	10
2-Nitrophenol	ND		ug/kg	4100	710	10
4-Nitrophenol	ND		ug/kg	2600	770	10
2,4-Dinitrophenol	ND		ug/kg	9000	880	10
4,6-Dinitro-o-cresol	ND		ug/kg	4900	900	10
Pentachlorophenol	ND		ug/kg	1500	410	10

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-07 D  
 Client ID: WC06\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 11:55  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	ND		ug/kg	1900	280	10
2-Methylphenol	ND		ug/kg	1900	290	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	2700	300	10
2,4,5-Trichlorophenol	ND		ug/kg	1900	360	10
Benzoic Acid	ND		ug/kg	6100	1900	10
Benzyl Alcohol	ND		ug/kg	1900	580	10
Carbazole	4700		ug/kg	1900	180	10
Atrazine	ND		ug/kg	1500	660	10
Benzaldehyde	ND		ug/kg	2500	510	10
Caprolactam	ND		ug/kg	1900	570	10
2,3,4,6-Tetrachlorophenol	ND		ug/kg	1900	380	10
1,4-Dioxane	ND		ug/kg	280	87.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	76		23-120
2-Fluorobiphenyl	99		30-120
2,4,6-Tribromophenol	107		10-136
4-Terphenyl-d14	111		18-120



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-14 D  
 Client ID: WC06\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 13:00  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/26/24 05:32  
 Analyst: SZ  
 Percent Solids: 73%

Extraction Method: EPA 3546  
 Extraction Date: 06/23/24 12:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	420	J	ug/kg	1800	230	10
Benzidine	ND		ug/kg	7300	2400	10
1,2,4-Trichlorobenzene	ND		ug/kg	2200	250	10
Hexachlorobenzene	ND		ug/kg	1300	250	10
Bis(2-chloroethyl)ether	ND		ug/kg	2000	300	10
2-Chloronaphthalene	ND		ug/kg	2200	220	10
1,2-Dichlorobenzene	ND		ug/kg	2200	400	10
1,3-Dichlorobenzene	ND		ug/kg	2200	380	10
1,4-Dichlorobenzene	ND		ug/kg	2200	390	10
3,3'-Dichlorobenzidine	ND		ug/kg	2200	590	10
2,4-Dinitrotoluene	ND		ug/kg	2200	440	10
2,6-Dinitrotoluene	ND		ug/kg	2200	380	10
Azobenzene	ND		ug/kg	2200	210	10
Fluoranthene	3100		ug/kg	1300	260	10
4-Chlorophenyl phenyl ether	ND		ug/kg	2200	240	10
4-Bromophenyl phenyl ether	ND		ug/kg	2200	340	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2700	380	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2400	220	10
Hexachlorobutadiene	ND		ug/kg	2200	320	10
Hexachlorocyclopentadiene	ND		ug/kg	6400	2000	10
Hexachloroethane	ND		ug/kg	1800	360	10
Isophorone	ND		ug/kg	2000	290	10
Naphthalene	1400	J	ug/kg	2200	270	10
Nitrobenzene	ND		ug/kg	2000	330	10
NDPA/DPA	ND		ug/kg	1800	250	10
n-Nitrosodi-n-propylamine	ND		ug/kg	2200	340	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	2200	770	10
Butyl benzyl phthalate	ND		ug/kg	2200	560	10

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434443**Project Number:** 170562203**Report Date:** 06/26/24**SAMPLE RESULTS**

Lab ID: L2434443-14 D  
 Client ID: WC06\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 13:00  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Di-n-butylphthalate	ND		ug/kg	2200	420	10
Di-n-octylphthalate	ND		ug/kg	2200	760	10
Diethyl phthalate	ND		ug/kg	2200	210	10
Dimethyl phthalate	ND		ug/kg	2200	470	10
Benzo(a)anthracene	1200	J	ug/kg	1300	250	10
Benzo(a)pyrene	1100	J	ug/kg	1800	540	10
Benzo(b)fluoranthene	1300		ug/kg	1300	370	10
Benzo(k)fluoranthene	ND		ug/kg	1300	360	10
Chrysene	1300		ug/kg	1300	230	10
Acenaphthylene	580	J	ug/kg	1800	340	10
Anthracene	1000	J	ug/kg	1300	430	10
Benzo(ghi)perylene	560	J	ug/kg	1800	260	10
Fluorene	710	J	ug/kg	2200	220	10
Phenanthrene	5200		ug/kg	1300	270	10
Dibenzo(a,h)anthracene	ND		ug/kg	1300	260	10
Indeno(1,2,3-cd)pyrene	490	J	ug/kg	1800	310	10
Pyrene	3000		ug/kg	1300	220	10
Biphenyl	ND		ug/kg	5100	290	10
4-Chloroaniline	ND		ug/kg	2200	400	10
2-Nitroaniline	ND		ug/kg	2200	430	10
3-Nitroaniline	ND		ug/kg	2200	420	10
4-Nitroaniline	ND		ug/kg	2200	920	10
Dibenzofuran	390	J	ug/kg	2200	210	10
2-Methylnaphthalene	1200	J	ug/kg	2700	270	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	2200	230	10
Acetophenone	ND		ug/kg	2200	280	10
n-Nitrosodimethylamine	ND		ug/kg	4400	430	10
2,4,6-Trichlorophenol	ND		ug/kg	1300	420	10
p-Chloro-m-cresol	ND		ug/kg	2200	330	10
2-Chlorophenol	ND		ug/kg	2200	260	10
2,4-Dichlorophenol	ND		ug/kg	2000	360	10
2,4-Dimethylphenol	ND		ug/kg	2200	730	10
2-Nitrophenol	ND		ug/kg	4800	840	10
4-Nitrophenol	ND		ug/kg	3100	910	10
2,4-Dinitrophenol	ND		ug/kg	11000	1000	10
4,6-Dinitro-o-cresol	ND		ug/kg	5800	1100	10
Pentachlorophenol	ND		ug/kg	1800	490	10

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-14 D  
 Client ID: WC06\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 13:00  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	ND		ug/kg	2200	340	10
2-Methylphenol	ND		ug/kg	2200	340	10
3-Methylphenol/4-Methylphenol	1400	J	ug/kg	3200	350	10
2,4,5-Trichlorophenol	ND		ug/kg	2200	430	10
Benzoic Acid	ND		ug/kg	7200	2200	10
Benzyl Alcohol	ND		ug/kg	2200	680	10
Carbazole	ND		ug/kg	2200	220	10
Atrazine	ND		ug/kg	1800	780	10
Benzaldehyde	ND		ug/kg	2900	600	10
Caprolactam	ND		ug/kg	2200	680	10
2,3,4,6-Tetrachlorophenol	ND		ug/kg	2200	450	10
1,4-Dioxane	ND		ug/kg	330	100	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	51		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	80		10-136
4-Terphenyl-d14	72		18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-21 D  
 Client ID: WC11\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 14:30  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/26/24 08:01  
 Analyst: LJG  
 Percent Solids: 81%

Extraction Method: EPA 3546  
 Extraction Date: 06/23/24 12:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	180	J	ug/kg	820	100	5
Benzidine	ND		ug/kg	3400	1100	5
1,2,4-Trichlorobenzene	ND		ug/kg	1000	120	5
Hexachlorobenzene	ND		ug/kg	610	110	5
Bis(2-chloroethyl)ether	ND		ug/kg	920	140	5
2-Chloronaphthalene	ND		ug/kg	1000	100	5
1,2-Dichlorobenzene	ND		ug/kg	1000	180	5
1,3-Dichlorobenzene	ND		ug/kg	1000	180	5
1,4-Dichlorobenzene	ND		ug/kg	1000	180	5
3,3'-Dichlorobenzidine	ND		ug/kg	1000	270	5
2,4-Dinitrotoluene	ND		ug/kg	1000	200	5
2,6-Dinitrotoluene	ND		ug/kg	1000	180	5
Azobenzene	ND		ug/kg	1000	98.	5
Fluoranthene	8400		ug/kg	610	120	5
4-Chlorophenyl phenyl ether	ND		ug/kg	1000	110	5
4-Bromophenyl phenyl ether	ND		ug/kg	1000	160	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1200	170	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1100	100	5
Hexachlorobutadiene	ND		ug/kg	1000	150	5
Hexachlorocyclopentadiene	ND		ug/kg	2900	920	5
Hexachloroethane	ND		ug/kg	820	160	5
Isophorone	ND		ug/kg	920	130	5
Naphthalene	5000		ug/kg	1000	120	5
Nitrobenzene	ND		ug/kg	920	150	5
NDPA/DPA	ND		ug/kg	820	120	5
n-Nitrosodi-n-propylamine	ND		ug/kg	1000	160	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1000	350	5
Butyl benzyl phthalate	ND		ug/kg	1000	260	5

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434443

Project Number: 170562203

Report Date: 06/26/24

## SAMPLE RESULTS

Lab ID: L2434443-21 D  
 Client ID: WC11\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 14:30  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	1000	190	5
Di-n-octylphthalate	ND		ug/kg	1000	350	5
Diethyl phthalate	ND		ug/kg	1000	94.	5
Dimethyl phthalate	ND		ug/kg	1000	210	5
Benzo(a)anthracene	35000		ug/kg	610	120	5
Benzo(a)pyrene	92000	E	ug/kg	820	250	5
Chrysene	100000	E	ug/kg	610	110	5
Acenaphthylene	210	J	ug/kg	820	160	5
Anthracene	1100		ug/kg	610	200	5
Benzo(ghi)perylene	34000		ug/kg	820	120	5
Fluorene	840	J	ug/kg	1000	99.	5
Phenanthrene	19000		ug/kg	610	120	5
Dibenzo(a,h)anthracene	19000		ug/kg	610	120	5
Indeno(1,2,3-cd)pyrene	8900		ug/kg	820	140	5
Pyrene	32000		ug/kg	610	100	5
Biphenyl	550	J	ug/kg	2300	130	5
4-Chloroaniline	ND		ug/kg	1000	180	5
2-Nitroaniline	ND		ug/kg	1000	200	5
3-Nitroaniline	ND		ug/kg	1000	190	5
4-Nitroaniline	ND		ug/kg	1000	420	5
Dibenzofuran	260	J	ug/kg	1000	97.	5
2-Methylnaphthalene	8800		ug/kg	1200	120	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1000	110	5
Acetophenone	ND		ug/kg	1000	130	5
n-Nitrosodimethylamine	ND		ug/kg	2000	200	5
2,4,6-Trichlorophenol	ND		ug/kg	610	190	5
p-Chloro-m-cresol	ND		ug/kg	1000	150	5
2-Chlorophenol	ND		ug/kg	1000	120	5
2,4-Dichlorophenol	ND		ug/kg	920	160	5
2,4-Dimethylphenol	ND		ug/kg	1000	340	5
2-Nitrophenol	ND		ug/kg	2200	380	5
4-Nitrophenol	ND		ug/kg	1400	420	5
2,4-Dinitrophenol	ND		ug/kg	4900	480	5
4,6-Dinitro-o-cresol	ND		ug/kg	2600	490	5
Pentachlorophenol	ND		ug/kg	820	220	5
Phenol	ND		ug/kg	1000	150	5
2-Methylphenol	ND		ug/kg	1000	160	5

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-21 D  
 Client ID: WC11\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 14:30  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
3-Methylphenol/4-Methylphenol	ND		ug/kg	1500	160	5
2,4,5-Trichlorophenol	ND		ug/kg	1000	200	5
Benzoic Acid	ND		ug/kg	3300	1000	5
Benzyl Alcohol	ND		ug/kg	1000	310	5
Carbazole	ND		ug/kg	1000	99.	5
Atrazine	ND		ug/kg	820	360	5
Benzaldehyde	ND		ug/kg	1300	280	5
Caprolactam	ND		ug/kg	1000	310	5
2,3,4,6-Tetrachlorophenol	ND		ug/kg	1000	210	5
1,4-Dioxane	ND		ug/kg	150	47.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	41		25-120
Phenol-d6	39		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	52		30-120
2,4,6-Tribromophenol	54		10-136
4-Terphenyl-d14	55		18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-21 D  
 Client ID: WC11\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 14:30  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/26/24 11:42  
 Analyst: LJG  
 Percent Solids: 81%

Extraction Method: EPA 3546  
 Extraction Date: 06/23/24 12:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Benzo(a)pyrene	29000		ug/kg	4100	1200	25
Benzo(b)fluoranthene	28000		ug/kg	3100	860	25
Benzo(k)fluoranthene	2200	J	ug/kg	3100	820	25
Chrysene	70000		ug/kg	3100	530	25

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-28 D2  
 Client ID: WC11\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 15:30  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/26/24 08:20  
 Analyst: SZ  
 Percent Solids: 89%

Extraction Method: EPA 3546  
 Extraction Date: 06/23/24 12:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	56000		ug/kg	2800	480	25



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-28 D  
 Client ID: WC11\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 15:30  
 Date Received: 06/18/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/25/24 09:44  
 Analyst: JG  
 Percent Solids: 89%

Extraction Method: EPA 3546  
 Extraction Date: 06/23/24 12:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	240	J	ug/kg	740	96.	5
Benzidine	ND		ug/kg	3000	1000	5
1,2,4-Trichlorobenzene	ND		ug/kg	920	100	5
Hexachlorobenzene	ND		ug/kg	550	100	5
Bis(2-chloroethyl)ether	ND		ug/kg	830	120	5
2-Chloronaphthalene	ND		ug/kg	920	92.	5
1,2-Dichlorobenzene	ND		ug/kg	920	160	5
1,3-Dichlorobenzene	ND		ug/kg	920	160	5
1,4-Dichlorobenzene	ND		ug/kg	920	160	5
3,3'-Dichlorobenzidine	ND		ug/kg	920	240	5
2,4-Dinitrotoluene	ND		ug/kg	920	180	5
2,6-Dinitrotoluene	ND		ug/kg	920	160	5
Azobenzene	ND		ug/kg	920	89.	5
Fluoranthene	3300		ug/kg	550	110	5
4-Chlorophenyl phenyl ether	ND		ug/kg	920	99.	5
4-Bromophenyl phenyl ether	ND		ug/kg	920	140	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	160	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	92.	5
Hexachlorobutadiene	ND		ug/kg	920	140	5
Hexachlorocyclopentadiene	ND		ug/kg	2600	840	5
Hexachloroethane	ND		ug/kg	740	150	5
Isophorone	ND		ug/kg	830	120	5
Naphthalene	750	J	ug/kg	920	110	5
Nitrobenzene	ND		ug/kg	830	140	5
NDPA/DPA	ND		ug/kg	740	100	5
n-Nitrosodi-n-propylamine	ND		ug/kg	920	140	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	920	320	5
Butyl benzyl phthalate	ND		ug/kg	920	230	5

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434443**Project Number:** 170562203**Report Date:** 06/26/24**SAMPLE RESULTS**

Lab ID: L2434443-28 D  
 Client ID: WC11\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 15:30  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Di-n-butylphthalate	ND		ug/kg	920	180	5
Di-n-octylphthalate	ND		ug/kg	920	310	5
Diethyl phthalate	ND		ug/kg	920	86.	5
Dimethyl phthalate	ND		ug/kg	920	190	5
Benzo(a)anthracene	29000		ug/kg	550	100	5
Benzo(a)pyrene	18000		ug/kg	740	220	5
Benzo(b)fluoranthene	22000		ug/kg	550	160	5
Benzo(k)fluoranthene	1600		ug/kg	550	150	5
Chrysene	42000	E	ug/kg	550	96.	5
Acenaphthylene	160	J	ug/kg	740	140	5
Anthracene	1000		ug/kg	550	180	5
Benzo(ghi)perylene	15000		ug/kg	740	110	5
Fluorene	510	J	ug/kg	920	90.	5
Phenanthrene	5700		ug/kg	550	110	5
Dibenzo(a,h)anthracene	13000		ug/kg	550	110	5
Indeno(1,2,3-cd)pyrene	8100		ug/kg	740	130	5
Pyrene	10000		ug/kg	550	92.	5
Biphenyl	ND		ug/kg	2100	120	5
4-Chloroaniline	ND		ug/kg	920	170	5
2-Nitroaniline	ND		ug/kg	920	180	5
3-Nitroaniline	ND		ug/kg	920	170	5
4-Nitroaniline	ND		ug/kg	920	380	5
Dibenzofuran	ND		ug/kg	920	87.	5
2-Methylnaphthalene	1700		ug/kg	1100	110	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	920	96.	5
Acetophenone	ND		ug/kg	920	110	5
n-Nitrosodimethylamine	ND		ug/kg	1800	180	5
2,4,6-Trichlorophenol	ND		ug/kg	550	180	5
p-Chloro-m-cresol	ND		ug/kg	920	140	5
2-Chlorophenol	ND		ug/kg	920	110	5
2,4-Dichlorophenol	ND		ug/kg	830	150	5
2,4-Dimethylphenol	ND		ug/kg	920	300	5
2-Nitrophenol	ND		ug/kg	2000	350	5
4-Nitrophenol	ND		ug/kg	1300	380	5
2,4-Dinitrophenol	ND		ug/kg	4400	430	5
4,6-Dinitro-o-cresol	ND		ug/kg	2400	440	5
Pentachlorophenol	ND		ug/kg	740	200	5

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434443**Project Number:** 170562203**Report Date:** 06/26/24**SAMPLE RESULTS**

Lab ID: L2434443-28 D  
 Client ID: WC11\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 15:30  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	ND		ug/kg	920	140	5
2-Methylphenol	ND		ug/kg	920	140	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1300	140	5
2,4,5-Trichlorophenol	ND		ug/kg	920	180	5
Benzoic Acid	ND		ug/kg	3000	930	5
Benzyl Alcohol	ND		ug/kg	920	280	5
Carbazole	ND		ug/kg	920	90.	5
Atrazine	ND		ug/kg	740	320	5
Benzaldehyde	ND		ug/kg	1200	250	5
Caprolactam	ND		ug/kg	920	280	5
2,3,4,6-Tetrachlorophenol	ND		ug/kg	920	190	5
1,4-Dioxane	ND		ug/kg	140	42.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		25-120
Phenol-d6	54		10-120
Nitrobenzene-d5	62		23-120
2-Fluorobiphenyl	71		30-120
2,4,6-Tribromophenol	62		10-136
4-Terphenyl-d14	63		18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-35 D  
 Client ID: WC18\_COMP\_9-13  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 16:05  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/26/24 12:06  
 Analyst: LJG  
 Percent Solids: 91%

Extraction Method: EPA 3546  
 Extraction Date: 06/23/24 12:34

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	540	J	ug/kg	720	93.	5
Benzidine	ND		ug/kg	3000	980	5
1,2,4-Trichlorobenzene	ND		ug/kg	900	100	5
Hexachlorobenzene	ND		ug/kg	540	100	5
Bis(2-chloroethyl)ether	ND		ug/kg	810	120	5
2-Chloronaphthalene	ND		ug/kg	900	89.	5
1,2-Dichlorobenzene	ND		ug/kg	900	160	5
1,3-Dichlorobenzene	ND		ug/kg	900	160	5
1,4-Dichlorobenzene	ND		ug/kg	900	160	5
3,3'-Dichlorobenzidine	ND		ug/kg	900	240	5
2,4-Dinitrotoluene	ND		ug/kg	900	180	5
2,6-Dinitrotoluene	ND		ug/kg	900	150	5
Azobenzene	ND		ug/kg	900	86.	5
Fluoranthene	2600		ug/kg	540	100	5
4-Chlorophenyl phenyl ether	ND		ug/kg	900	96.	5
4-Bromophenyl phenyl ether	ND		ug/kg	900	140	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	150	5
Bis(2-chloroethoxy)methane	ND		ug/kg	970	90.	5
Hexachlorobutadiene	ND		ug/kg	900	130	5
Hexachlorocyclopentadiene	ND		ug/kg	2600	820	5
Hexachloroethane	ND		ug/kg	720	140	5
Isophorone	ND		ug/kg	810	120	5
Naphthalene	ND		ug/kg	900	110	5
Nitrobenzene	ND		ug/kg	810	130	5
NDPA/DPA	ND		ug/kg	720	100	5
n-Nitrosodi-n-propylamine	ND		ug/kg	900	140	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	900	310	5
Butyl benzyl phthalate	ND		ug/kg	900	230	5

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434443**Project Number:** 170562203**Report Date:** 06/26/24**SAMPLE RESULTS**

Lab ID: L2434443-35 D  
 Client ID: WC18\_COMP\_9-13  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 16:05  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Di-n-butylphthalate	ND		ug/kg	900	170	5
Di-n-octylphthalate	ND		ug/kg	900	310	5
Diethyl phthalate	ND		ug/kg	900	84.	5
Dimethyl phthalate	ND		ug/kg	900	190	5
Benzo(a)anthracene	30000		ug/kg	540	100	5
Benzo(a)pyrene	24000		ug/kg	720	220	5
Benzo(b)fluoranthene	17000		ug/kg	540	150	5
Benzo(k)fluoranthene	2300		ug/kg	540	140	5
Chrysene	27000		ug/kg	540	94.	5
Acenaphthylene	ND		ug/kg	720	140	5
Anthracene	1800		ug/kg	540	180	5
Benzo(ghi)perylene	14000		ug/kg	720	110	5
Fluorene	1600		ug/kg	900	88.	5
Phenanthrene	550		ug/kg	540	110	5
Dibenzo(a,h)anthracene	8700		ug/kg	540	100	5
Indeno(1,2,3-cd)pyrene	4900		ug/kg	720	120	5
Pyrene	10000		ug/kg	540	90.	5
Biphenyl	ND		ug/kg	2000	120	5
4-Chloroaniline	ND		ug/kg	900	160	5
2-Nitroaniline	ND		ug/kg	900	170	5
3-Nitroaniline	ND		ug/kg	900	170	5
4-Nitroaniline	ND		ug/kg	900	370	5
Dibenzofuran	140	J	ug/kg	900	85.	5
2-Methylnaphthalene	200	J	ug/kg	1100	110	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	900	94.	5
Acetophenone	ND		ug/kg	900	110	5
n-Nitrosodimethylamine	ND		ug/kg	1800	170	5
2,4,6-Trichlorophenol	ND		ug/kg	540	170	5
p-Chloro-m-cresol	ND		ug/kg	900	130	5
2-Chlorophenol	ND		ug/kg	900	110	5
2,4-Dichlorophenol	ND		ug/kg	810	140	5
2,4-Dimethylphenol	ND		ug/kg	900	300	5
2-Nitrophenol	ND		ug/kg	1900	340	5
4-Nitrophenol	ND		ug/kg	1300	370	5
2,4-Dinitrophenol	ND		ug/kg	4300	420	5
4,6-Dinitro-o-cresol	ND		ug/kg	2300	430	5
Pentachlorophenol	ND		ug/kg	720	200	5

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-35 D  
 Client ID: WC18\_COMP\_9-13  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 16:05  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	ND		ug/kg	900	140	5
2-Methylphenol	ND		ug/kg	900	140	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1300	140	5
2,4,5-Trichlorophenol	ND		ug/kg	900	170	5
Benzoic Acid	ND		ug/kg	2900	910	5
Benzyl Alcohol	ND		ug/kg	900	280	5
Carbazole	ND		ug/kg	900	88.	5
Atrazine	ND		ug/kg	720	320	5
Benzaldehyde	ND		ug/kg	1200	240	5
Caprolactam	ND		ug/kg	900	270	5
2,3,4,6-Tetrachlorophenol	ND		ug/kg	900	180	5
1,4-Dioxane	ND		ug/kg	140	41.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	85		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	93		23-120
2-Fluorobiphenyl	74		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	86		18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/24/24 13:53  
Analyst: ALS

Extraction Method: EPA 3546  
Extraction Date: 06/23/24 10:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07,14,21,28,35 Batch: WG1938146-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	540	180
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	26.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	42.
Di-n-butylphthalate	ND		ug/kg	160	31.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/24/24 13:53  
Analyst: ALS

Extraction Method: EPA 3546  
Extraction Date: 06/23/24 10:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07,14,21,28,35 Batch: WG1938146-1					
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	35.
Benzo(a)anthracene	ND		ug/kg	99	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	24	J	ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	20	J	ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Biphenyl	ND		ug/kg	380	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
n-Nitrosodimethylamine	ND		ug/kg	330	32.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	25.
2-Chlorophenol	ND		ug/kg	160	20.



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/24/24 13:53  
Analyst: ALS

Extraction Method: EPA 3546  
Extraction Date: 06/23/24 10:23

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07,14,21,28,35 Batch: WG1938146-1					
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	540	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	45.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	92		25-120
Phenol-d6	94		10-120
Nitrobenzene-d5	96		23-120
2-Fluorobiphenyl	69		30-120
2,4,6-Tribromophenol	86		10-136
4-Terphenyl-d14	100		18-120



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434443

Project Number: 170562203

Report Date: 06/26/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1938146-2 WG1938146-3								
Acenaphthene	83		80		31-137	4		50
Benzidine	43		38		10-66	12		50
1,2,4-Trichlorobenzene	74		68		38-107	8		50
Hexachlorobenzene	80		79		40-140	1		50
Bis(2-chloroethyl)ether	85		79		40-140	7		50
2-Chloronaphthalene	74		67		40-140	10		50
1,2-Dichlorobenzene	76		74		40-140	3		50
1,3-Dichlorobenzene	74		71		40-140	4		50
1,4-Dichlorobenzene	76		74		28-104	3		50
3,3'-Dichlorobenzidine	81		79		40-140	3		50
2,4-Dinitrotoluene	92		90		40-132	2		50
2,6-Dinitrotoluene	80		74		40-140	8		50
Azobenzene	94		89		40-140	5		50
Fluoranthene	87		84		40-140	4		50
4-Chlorophenyl phenyl ether	81		79		40-140	3		50
4-Bromophenyl phenyl ether	78		76		40-140	3		50
Bis(2-chloroisopropyl)ether	62		58		40-140	7		50
Bis(2-chloroethoxy)methane	88		83		40-117	6		50
Hexachlorobutadiene	68		64		40-140	6		50
Hexachlorocyclopentadiene	48		44		40-140	9		50
Hexachloroethane	83		78		40-140	6		50
Isophorone	88		82		40-140	7		50
Naphthalene	80		76		40-140	5		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434443

Project Number: 170562203

Report Date: 06/26/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1938146-2 WG1938146-3								
Nitrobenzene	92		86		40-140	7		50
NDPA/DPA	84		80		36-157	5		50
n-Nitrosodi-n-propylamine	90		84		32-121	7		50
Bis(2-ethylhexyl)phthalate	96		87		40-140	10		50
Butyl benzyl phthalate	97		91		40-140	6		50
Di-n-butylphthalate	98		93		40-140	5		50
Di-n-octylphthalate	91		86		40-140	6		50
Diethyl phthalate	88		85		40-140	3		50
Dimethyl phthalate	75		69		40-140	8		50
Benzo(a)anthracene	85		79		40-140	7		50
Benzo(a)pyrene	83		79		40-140	5		50
Benzo(b)fluoranthene	78		76		40-140	3		50
Benzo(k)fluoranthene	90		82		40-140	9		50
Chrysene	86		80		40-140	7		50
Acenaphthylene	78		71		40-140	9		50
Anthracene	88		84		40-140	5		50
Benzo(ghi)perylene	78		77		40-140	1		50
Fluorene	83		79		40-140	5		50
Phenanthrene	86		81		40-140	6		50
Dibenzo(a,h)anthracene	81		81		40-140	0		50
Indeno(1,2,3-cd)pyrene	76		75		40-140	1		50
Pyrene	86		83		35-142	4		50
Biphenyl	68		62		37-127	9		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434443

Project Number: 170562203

Report Date: 06/26/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1938146-2 WG1938146-3								
4-Chloroaniline	84		79		40-140	6		50
2-Nitroaniline	90		82		47-134	9		50
3-Nitroaniline	87		87		26-129	0		50
4-Nitroaniline	95		90		41-125	5		50
Dibenzofuran	82		78		40-140	5		50
2-Methylnaphthalene	76		72		40-140	5		50
1,2,4,5-Tetrachlorobenzene	64		58		40-117	10		50
Acetophenone	79		76		14-144	4		50
n-Nitrosodimethylamine	81		80		22-100	1		50
2,4,6-Trichlorophenol	74		68		30-130	8		50
p-Chloro-m-cresol	88		84		26-103	5		50
2-Chlorophenol	90		84		25-102	7		50
2,4-Dichlorophenol	80		75		30-130	6		50
2,4-Dimethylphenol	86		80		30-130	7		50
2-Nitrophenol	94		88		30-130	7		50
4-Nitrophenol	105		98		11-114	7		50
2,4-Dinitrophenol	79		73		4-130	8		50
4,6-Dinitro-o-cresol	89		84		10-130	6		50
Pentachlorophenol	75		70		17-109	7		50
Phenol	90		85		26-90	6		50
2-Methylphenol	94		86		30-130	9		50
3-Methylphenol/4-Methylphenol	99		94		30-130	5		50
2,4,5-Trichlorophenol	74		68		30-130	8		50

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1938146-2 WG1938146-3								
Benzoic Acid	76		69		10-110	10		50
Benzyl Alcohol	97		88		40-140	10		50
Carbazole	88		83		54-128	6		50
Atrazine	73		67		40-140	9		50
Benzaldehyde	76		75		40-140	1		50
Caprolactam	66		62		15-130	6		50
2,3,4,6-Tetrachlorophenol	85		82		40-140	4		50
1,4-Dioxane	57		58		40-140	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	89		88		25-120
Phenol-d6	90		86		10-120
Nitrobenzene-d5	94		87		23-120
2-Fluorobiphenyl	70		64		30-120
2,4,6-Tribromophenol	83		80		10-136
4-Terphenyl-d14	89		84		18-120



# PETROLEUM HYDROCARBONS

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-01  
 Client ID: WC06A\_GRAB\_2-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 11:20  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/24/24 12:32  
 Analyst: CRE  
 Percent Solids: 85%

Extraction Method: EPA 3546  
 Extraction Date: 06/23/24 11:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	150		mg/kg	27.6	27.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	90		40-140
o-Terphenyl	91		40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-08 D  
 Client ID: WC06D\_GRAB\_7-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 12:30  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/25/24 01:09  
 Analyst: CRE  
 Percent Solids: 93%

Extraction Method: EPA 3546  
 Extraction Date: 06/23/24 11:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	18500		mg/kg	502	502.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434443**Project Number:** 170562203**Report Date:** 06/26/24**SAMPLE RESULTS**

Lab ID: L2434443-15 D  
 Client ID: WC11D\_GRAB\_2-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 14:00  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/25/24 01:09  
 Analyst: CRE  
 Percent Solids: 62%

Extraction Method: EPA 3546  
 Extraction Date: 06/23/24 11:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	64200		mg/kg	3080	3080	80

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434443**Project Number:** 170562203**Report Date:** 06/26/24**SAMPLE RESULTS**

Lab ID: L2434443-22 D  
 Client ID: WC11B\_GRAB\_5-7  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 15:00  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/25/24 01:45  
 Analyst: CRE  
 Percent Solids: 89%

Extraction Method: EPA 3546  
 Extraction Date: 06/23/24 11:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	12200		mg/kg	1060	1060	40

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-29 D  
 Client ID: WC06D\_GRAB\_10-12  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 15:35  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/25/24 01:45  
 Analyst: CRE  
 Percent Solids: 97%

Extraction Method: EPA 3546  
 Extraction Date: 06/23/24 11:53

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	18500		mg/kg	493	493.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 103,NJDEP EPH  
Analytical Date: 06/23/24 16:50  
Analyst: CRE

Extraction Method: EPA 3546  
Extraction Date: 06/22/24 22:39

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 01,08,15,22,29 Batch: WG1938052-1					
Total EPH	ND		mg/kg	22.6	22.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	93		40-140
o-Terphenyl	91		40-140

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2434443

**Project Number:** 170562203

**Report Date:** 06/26/24

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01,08,15,22,29 Batch: WG1938052-2 WG1938052-3								
Total EPH	140		119		40-140	16		25
Nonane (C9)	126		107		40-140	16		25
Decane (C10)	139		117		40-140	17		25
Dodecane (C12)	139		117		40-140	17		25
Tetradecane (C14)	139		117		40-140	17		25
Hexadecane (C16)	140		117		40-140	18		25
Octadecane (C18)	138		117		40-140	16		25
Eicosane (C20)	136		112		40-140	19		25
Heneicosane (C21)	140		115		40-140	20		25
Docosane (C22)	138		114		40-140	19		25
Tetracosane (C24)	137		113		40-140	19		25
Hexacosane (C26)	133		110		40-140	19		25
Octacosane (C28)	131		108		40-140	19		25
triacontane (C30)	128		106		40-140	19		25
Dotriacontane (C32)	129		107		40-140	19		25
Tetracontane (C34)	125		103		40-140	19		25
Hexatriacontane (C36)	126		104		40-140	19		25
Octatriacontane (C38)	123		100		40-140	21		25
Tetracontane (C40)	126		102		40-140	21		25

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01,08,15,22,29 Batch: WG1938052-2 WG1938052-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Chloro-Octadecane	108		96		40-140
o-Terphenyl	106		95		40-140

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01,08,15,22,29 QC Batch ID: WG1938052-4 QC Sample: L2434097-01 Client ID: MS Sample												
Total EPH	95.4	258	459	141	Q	-	-		40-140	-		50
Nonane (C9)	ND	7.18	8.13	113		-	-		40-140	-		50
Decane (C10)	ND	7.18	8.79	122		-	-		40-140	-		50
Dodecane (C12)	ND	7.18	8.90	124		-	-		40-140	-		50
Tetradecane (C14)	ND	7.18	9.23	129		-	-		40-140	-		50
Hexadecane (C16)	ND	7.18	9.52	133		-	-		40-140	-		50
Octadecane (C18)	ND	7.18	9.72	135		-	-		40-140	-		50
Eicosane (C20)	ND	7.18	9.16	128		-	-		40-140	-		50
Heneicosane (C21)	ND	7.18	9.42	131		-	-		40-140	-		50
Docosane (C22)	ND	7.18	9.19	128		-	-		40-140	-		50
Tetracosane (C24)	ND	7.18	9.21	128		-	-		40-140	-		50
Hexacosane (C26)	ND	7.18	8.97	125		-	-		40-140	-		50
Octacosane (C28)	ND	7.18	8.80	123		-	-		40-140	-		50
Triacontane (C30)	ND	7.18	8.46	118		-	-		40-140	-		50
Dotriacontane (C32)	ND	7.18	8.89	124		-	-		40-140	-		50
Tetratriacontane (C34)	ND	7.18	8.40	117		-	-		40-140	-		50
Hexatriacontane (C36)	ND	7.18	8.85	123		-	-		40-140	-		50
Octatriacontane (C38)	ND	7.18	8.12	113		-	-		40-140	-		50
Tetracontane (C40)	ND	7.18	8.42	117		-	-		40-140	-		50

Surrogate	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
Chloro-Octadecane	102				40-140



### Matrix Spike Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

<b>Parameter</b>	<b>Native Sample</b>	<b>MS Added</b>	<b>MS Found</b>	<b>MS %Recovery</b>	<b>Qual</b>	<b>MSD Found</b>	<b>MSD %Recovery</b>	<b>Qual</b>	<b>Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
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NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01,08,15,22,29 QC Batch ID: WG1938052-4 QC Sample: L2434097-01  
Client ID: MS Sample

<b>Surrogate</b>	<b>MS % Recovery</b>	<b>Qualifier</b>	<b>MSD % Recovery</b>	<b>Qualifier</b>	<b>Acceptance Criteria</b>
o-Terphenyl	99				40-140



**Lab Duplicate Analysis**  
**Batch Quality Control**

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2434443

**Report Date:** 06/26/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01,08,15,22,29 QC Batch ID: WG1938052-5 QC Sample: L2434097-01 Client ID: DUP Sample						
Total EPH	95.4	171	mg/kg	57	Q	50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	98		105		40-140
o-Terphenyl	95		101		40-140



# PCBS

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

**Lab ID:** L2434443-07  
**Client ID:** WC06\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/18/24 11:55  
**Date Received:** 06/18/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/26/24 06:47  
**Analyst:** MEO  
**Percent Solids:** 86%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/25/24 12:11  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/25/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/25/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	54.9	4.87	1	A
Aroclor 1221	ND		ug/kg	54.9	5.50	1	A
Aroclor 1232	ND		ug/kg	54.9	11.6	1	A
Aroclor 1242	ND		ug/kg	54.9	7.40	1	A
Aroclor 1248	ND		ug/kg	54.9	8.23	1	A
Aroclor 1254	19.5	J	ug/kg	54.9	6.00	1	A
Aroclor 1260	13.2	J	ug/kg	54.9	10.1	1	A
Aroclor 1262	ND		ug/kg	54.9	6.97	1	A
Aroclor 1268	8.95	J	ug/kg	54.9	5.69	1	B
PCBs, Total	41.7	J	ug/kg	54.9	4.87	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	79		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	129		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-14  
 Client ID: WC06\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 13:00  
 Date Received: 06/18/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 06/26/24 06:59  
 Analyst: MEO  
 Percent Solids: 73%

Extraction Method: EPA 3546  
 Extraction Date: 06/25/24 12:11  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 06/25/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/25/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	66.4	5.89	1	A
Aroclor 1221	ND		ug/kg	66.4	6.65	1	A
Aroclor 1232	ND		ug/kg	66.4	14.1	1	A
Aroclor 1242	ND		ug/kg	66.4	8.94	1	A
Aroclor 1248	ND		ug/kg	66.4	9.95	1	A
Aroclor 1254	ND		ug/kg	66.4	7.26	1	A
Aroclor 1260	ND		ug/kg	66.4	12.3	1	A
Aroclor 1262	ND		ug/kg	66.4	8.43	1	A
Aroclor 1268	ND		ug/kg	66.4	6.87	1	A
PCBs, Total	ND		ug/kg	66.4	5.89	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	113		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-21  
 Client ID: WC11\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 14:30  
 Date Received: 06/18/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 06/26/24 07:10  
 Analyst: MEO  
 Percent Solids: 81%

Extraction Method: EPA 3546  
 Extraction Date: 06/25/24 12:11  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 06/25/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/25/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	55.9	4.97	1	A
Aroclor 1221	ND		ug/kg	55.9	5.60	1	A
Aroclor 1232	ND		ug/kg	55.9	11.8	1	A
Aroclor 1242	ND		ug/kg	55.9	7.54	1	A
Aroclor 1248	ND		ug/kg	55.9	8.39	1	A
Aroclor 1254	ND		ug/kg	55.9	6.12	1	A
Aroclor 1260	ND		ug/kg	55.9	10.3	1	A
Aroclor 1262	ND		ug/kg	55.9	7.10	1	A
Aroclor 1268	ND		ug/kg	55.9	5.80	1	A
PCBs, Total	ND		ug/kg	55.9	4.97	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	74		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	88		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

**Lab ID:** L2434443-28  
**Client ID:** WC11\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/18/24 15:30  
**Date Received:** 06/18/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/26/24 07:22  
**Analyst:** MEO  
**Percent Solids:** 89%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/25/24 12:11  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/25/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/25/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	54.7	4.85	1	A
Aroclor 1221	ND		ug/kg	54.7	5.48	1	A
Aroclor 1232	ND		ug/kg	54.7	11.6	1	A
Aroclor 1242	ND		ug/kg	54.7	7.37	1	A
Aroclor 1248	ND		ug/kg	54.7	8.20	1	A
Aroclor 1254	7.99	J	ug/kg	54.7	5.98	1	B
Aroclor 1260	16.3	J	ug/kg	54.7	10.1	1	B
Aroclor 1262	ND		ug/kg	54.7	6.94	1	A
Aroclor 1268	ND		ug/kg	54.7	5.66	1	A
PCBs, Total	24.3	J	ug/kg	54.7	4.85	1	B

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	89		30-150	B

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434443**Project Number:** 170562203**Report Date:** 06/26/24**SAMPLE RESULTS**

Lab ID: L2434443-35  
 Client ID: WC18\_COMP\_9-13  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 16:05  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 06/26/24 07:33  
 Analyst: MEO  
 Percent Solids: 91%

Extraction Method: EPA 3546  
 Extraction Date: 06/25/24 12:11  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 06/25/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/25/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	54.4	4.84	1	A
Aroclor 1221	ND		ug/kg	54.4	5.46	1	A
Aroclor 1232	ND		ug/kg	54.4	11.5	1	A
Aroclor 1242	ND		ug/kg	54.4	7.34	1	A
Aroclor 1248	ND		ug/kg	54.4	8.17	1	A
Aroclor 1254	ND		ug/kg	54.4	5.96	1	A
Aroclor 1260	ND		ug/kg	54.4	10.1	1	A
Aroclor 1262	ND		ug/kg	54.4	6.92	1	A
Aroclor 1268	ND		ug/kg	54.4	5.64	1	A
PCBs, Total	ND		ug/kg	54.4	4.84	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	86		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	108		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**Method Blank Analysis  
 Batch Quality Control**

Analytical Method: 1,8082A  
 Analytical Date: 06/26/24 06:13  
 Analyst: MEO

Extraction Method: EPA 3546  
 Extraction Date: 06/25/24 12:11  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 06/25/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/25/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 07,14,21,28,35 Batch: WG1939097-1						
Aroclor 1016	ND		ug/kg	49.0	4.35	A
Aroclor 1221	ND		ug/kg	49.0	4.91	A
Aroclor 1232	ND		ug/kg	49.0	10.4	A
Aroclor 1242	ND		ug/kg	49.0	6.60	A
Aroclor 1248	ND		ug/kg	49.0	7.34	A
Aroclor 1254	ND		ug/kg	49.0	5.36	A
Aroclor 1260	ND		ug/kg	49.0	9.05	A
Aroclor 1262	ND		ug/kg	49.0	6.22	A
Aroclor 1268	ND		ug/kg	49.0	5.07	A
PCBs, Total	ND		ug/kg	49.0	4.35	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	117		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	124		30-150	B



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1939097-2 WG1939097-3									
Aroclor 1016	91		93		40-140	2		50	A
Aroclor 1260	89		90		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		96		30-150	A
Decachlorobiphenyl	117		121		30-150	A
2,4,5,6-Tetrachloro-m-xylene	97		100		30-150	B
Decachlorobiphenyl	125		129		30-150	B



# PESTICIDES

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

**Lab ID:** L2434443-07  
**Client ID:** WC06\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/18/24 11:55  
**Date Received:** 06/18/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 06/24/24 19:34  
**Analyst:** MMG  
**Percent Solids:** 86%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/23/24 13:22  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 06/24/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/24/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.79	0.350	1	B
Lindane	ND		ug/kg	0.745	0.333	1	B
Alpha-BHC	ND		ug/kg	0.745	0.212	1	B
Beta-BHC	ND		ug/kg	1.79	0.678	1	B
Heptachlor	ND		ug/kg	0.894	0.401	1	B
Aldrin	ND		ug/kg	1.79	0.630	1	B
Heptachlor epoxide	ND		ug/kg	3.35	1.01	1	B
Endrin	ND		ug/kg	0.745	0.306	1	B
Endrin aldehyde	ND		ug/kg	2.24	0.783	1	B
Endrin ketone	ND		ug/kg	1.79	0.461	1	B
Dieldrin	ND		ug/kg	1.12	0.559	1	B
4,4'-DDE	ND		ug/kg	1.79	0.414	1	B
4,4'-DDD	ND		ug/kg	1.79	0.638	1	B
4,4'-DDT	ND		ug/kg	1.79	1.44	1	B
Endosulfan I	ND		ug/kg	1.79	0.423	1	B
Endosulfan II	ND		ug/kg	1.79	0.598	1	B
Endosulfan sulfate	ND		ug/kg	0.745	0.355	1	B
Methoxychlor	ND		ug/kg	3.35	1.04	1	B
Toxaphene	ND		ug/kg	33.5	9.39	1	B
cis-Chlordane	ND		ug/kg	2.24	0.623	1	B
trans-Chlordane	ND		ug/kg	2.24	0.590	1	B
Chlordane	ND		ug/kg	14.9	5.93	1	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-07  
 Client ID: WC06\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 11:55  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	21	Q	30-150	A
Decachlorobiphenyl	17	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		30-150	B
Decachlorobiphenyl	63		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-07  
 Client ID: WC06\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 11:55  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/25/24 15:16  
 Analyst: JAG  
 Percent Solids: 86%  
 Methylation Date: 06/24/24 19:11

Extraction Method: EPA 8151A  
 Extraction Date: 06/22/24 16:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	192	12.1	1	A
2,4,5-T	ND		ug/kg	192	5.94	1	A
2,4,5-TP (Silvex)	ND		ug/kg	192	5.10	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	91		30-150	A
DCAA	86		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-14  
 Client ID: WC06\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 13:00  
 Date Received: 06/18/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 06/24/24 19:45  
 Analyst: MMG  
 Percent Solids: 73%

Extraction Method: EPA 3546  
 Extraction Date: 06/23/24 13:22  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 06/24/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/24/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	2.13	0.418	1	B
Lindane	ND		ug/kg	0.889	0.397	1	B
Alpha-BHC	ND		ug/kg	0.889	0.252	1	B
Beta-BHC	ND		ug/kg	2.13	0.809	1	B
Heptachlor	ND		ug/kg	1.07	0.478	1	B
Aldrin	ND		ug/kg	2.13	0.751	1	B
Heptachlor epoxide	ND		ug/kg	4.00	1.20	1	B
Endrin	ND		ug/kg	0.889	0.364	1	B
Endrin aldehyde	ND		ug/kg	2.67	0.933	1	B
Endrin ketone	ND		ug/kg	2.13	0.549	1	B
Dieldrin	ND		ug/kg	1.33	0.666	1	B
4,4'-DDE	ND		ug/kg	2.13	0.493	1	B
4,4'-DDD	ND		ug/kg	2.13	0.761	1	B
4,4'-DDT	ND		ug/kg	2.13	1.72	1	B
Endosulfan I	ND		ug/kg	2.13	0.504	1	B
Endosulfan II	ND		ug/kg	2.13	0.713	1	B
Endosulfan sulfate	ND		ug/kg	0.889	0.423	1	B
Methoxychlor	ND		ug/kg	4.00	1.24	1	B
Toxaphene	ND		ug/kg	40.0	11.2	1	B
cis-Chlordane	ND		ug/kg	2.67	0.743	1	B
trans-Chlordane	ND		ug/kg	2.67	0.704	1	B
Chlordane	ND		ug/kg	17.8	7.06	1	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-14  
 Client ID: WC06\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 13:00  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	15	Q	30-150	A
Decachlorobiphenyl	13	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	45		30-150	B
Decachlorobiphenyl	57		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-14  
 Client ID: WC06\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 13:00  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/25/24 15:34  
 Analyst: JAG  
 Percent Solids: 73%  
 Methylation Date: 06/24/24 19:11

Extraction Method: EPA 8151A  
 Extraction Date: 06/22/24 16:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	221	13.9	1	A
2,4,5-T	ND		ug/kg	221	6.85	1	A
2,4,5-TP (Silvex)	ND		ug/kg	221	5.88	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	70		30-150	A
DCAA	65		30-150	B



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

**Lab ID:** L2434443-21  
**Client ID:** WC11\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/18/24 14:30  
**Date Received:** 06/18/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 06/24/24 19:56  
**Analyst:** MMG  
**Percent Solids:** 81%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/23/24 13:22  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 06/24/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/24/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.91	0.375	1	A
Lindane	ND		ug/kg	0.797	0.356	1	A
Alpha-BHC	ND		ug/kg	0.797	0.226	1	A
Beta-BHC	ND		ug/kg	1.91	0.725	1	A
Heptachlor	ND		ug/kg	0.957	0.429	1	A
Aldrin	ND		ug/kg	1.91	0.674	1	A
Heptachlor epoxide	ND		ug/kg	3.59	1.08	1	A
Endrin	ND		ug/kg	0.797	0.327	1	A
Endrin aldehyde	ND		ug/kg	2.39	0.837	1	A
Endrin ketone	ND		ug/kg	1.91	0.493	1	A
Dieldrin	ND		ug/kg	1.20	0.598	1	A
4,4'-DDE	ND		ug/kg	1.91	0.442	1	A
4,4'-DDD	ND		ug/kg	1.91	0.682	1	A
4,4'-DDT	ND		ug/kg	1.91	1.54	1	A
Endosulfan I	ND		ug/kg	1.91	0.452	1	A
Endosulfan II	ND		ug/kg	1.91	0.639	1	A
Endosulfan sulfate	ND		ug/kg	0.797	0.379	1	A
Methoxychlor	ND		ug/kg	3.59	1.12	1	A
Toxaphene	ND		ug/kg	35.9	10.0	1	A
cis-Chlordane	ND		ug/kg	2.39	0.666	1	A
trans-Chlordane	ND		ug/kg	2.39	0.631	1	A
Chlordane	ND		ug/kg	15.9	6.34	1	A

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-21  
 Client ID: WC11\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 14:30  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	<b>820</b>	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	<b>674</b>	Q	30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-21  
 Client ID: WC11\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 14:30  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/25/24 15:52  
 Analyst: EJL  
 Percent Solids: 81%  
 Methylation Date: 06/24/24 19:11

Extraction Method: EPA 8151A  
 Extraction Date: 06/22/24 16:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	200	12.6	1	A
2,4,5-T	ND		ug/kg	200	6.21	1	A
2,4,5-TP (Silvex)	ND		ug/kg	200	5.33	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	30		30-150	A
DCAA	39		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-28  
 Client ID: WC11\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 15:30  
 Date Received: 06/18/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 06/24/24 20:08  
 Analyst: MMG  
 Percent Solids: 89%

Extraction Method: EPA 3546  
 Extraction Date: 06/23/24 13:22  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 06/24/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/24/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.80	0.353	1	A
Lindane	ND		ug/kg	0.750	0.335	1	A
Alpha-BHC	ND		ug/kg	0.750	0.213	1	A
Beta-BHC	ND		ug/kg	1.80	0.683	1	A
Heptachlor	ND		ug/kg	0.900	0.404	1	A
Aldrin	ND		ug/kg	1.80	0.634	1	A
Heptachlor epoxide	ND		ug/kg	3.38	1.01	1	A
Endrin	ND		ug/kg	0.750	0.308	1	A
Endrin aldehyde	ND		ug/kg	2.25	0.788	1	A
Endrin ketone	ND		ug/kg	1.80	0.464	1	A
Dieldrin	ND		ug/kg	1.12	0.563	1	A
4,4'-DDE	ND		ug/kg	1.80	0.416	1	A
4,4'-DDD	ND		ug/kg	1.80	0.642	1	A
4,4'-DDT	ND		ug/kg	1.80	1.45	1	A
Endosulfan I	ND		ug/kg	1.80	0.425	1	A
Endosulfan II	ND		ug/kg	1.80	0.602	1	A
Endosulfan sulfate	ND		ug/kg	0.750	0.357	1	A
Methoxychlor	ND		ug/kg	3.38	1.05	1	A
Toxaphene	ND		ug/kg	33.8	9.45	1	A
cis-Chlordane	ND		ug/kg	2.25	0.627	1	A
trans-Chlordane	ND		ug/kg	2.25	0.594	1	A
Chlordane	ND		ug/kg	15.0	5.96	1	A

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-28  
 Client ID: WC11\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 15:30  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	33		30-150	A
Decachlorobiphenyl	381	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	43		30-150	B
Decachlorobiphenyl	501	Q	30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-28  
 Client ID: WC11\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 15:30  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/25/24 16:11  
 Analyst: EJL  
 Percent Solids: 89%  
 Methylation Date: 06/24/24 19:11

Extraction Method: EPA 8151A  
 Extraction Date: 06/22/24 16:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	183	11.6	1	A
2,4,5-T	ND		ug/kg	183	5.68	1	A
2,4,5-TP (Silvex)	ND		ug/kg	183	4.88	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	43		30-150	A
DCAA	39		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-35  
 Client ID: WC18\_COMP\_9-13  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 16:05  
 Date Received: 06/18/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 06/24/24 20:19  
 Analyst: MMG  
 Percent Solids: 91%

Extraction Method: EPA 3546  
 Extraction Date: 06/23/24 13:22  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 06/24/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/24/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.74	0.340	1	A
Lindane	ND		ug/kg	0.724	0.324	1	A
Alpha-BHC	ND		ug/kg	0.724	0.206	1	A
Beta-BHC	ND		ug/kg	1.74	0.659	1	A
Heptachlor	ND		ug/kg	0.869	0.390	1	A
Aldrin	ND		ug/kg	1.74	0.612	1	A
Heptachlor epoxide	ND		ug/kg	3.26	0.978	1	A
Endrin	ND		ug/kg	0.724	0.297	1	A
Endrin aldehyde	ND		ug/kg	2.17	0.761	1	A
Endrin ketone	ND		ug/kg	1.74	0.448	1	A
Dieldrin	ND		ug/kg	1.09	0.543	1	A
4,4'-DDE	ND		ug/kg	1.74	0.402	1	A
4,4'-DDD	ND		ug/kg	1.74	0.620	1	A
4,4'-DDT	ND		ug/kg	1.74	1.40	1	A
Endosulfan I	ND		ug/kg	1.74	0.411	1	A
Endosulfan II	ND		ug/kg	1.74	0.581	1	A
Endosulfan sulfate	ND		ug/kg	0.724	0.345	1	A
Methoxychlor	ND		ug/kg	3.26	1.01	1	A
Toxaphene	ND		ug/kg	32.6	9.13	1	A
cis-Chlordane	ND		ug/kg	2.17	0.606	1	A
trans-Chlordane	ND		ug/kg	2.17	0.574	1	A
Chlordane	ND		ug/kg	14.5	5.76	1	A

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-35  
 Client ID: WC18\_COMP\_9-13  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 16:05  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
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## Organochlorine Pesticides by GC - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	45		30-150	A
Decachlorobiphenyl	51		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		30-150	B
Decachlorobiphenyl	201	Q	30-150	B



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

Lab ID: L2434443-35  
 Client ID: WC18\_COMP\_9-13  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/18/24 16:05  
 Date Received: 06/18/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/25/24 16:29  
 Analyst: EJL  
 Percent Solids: 91%  
 Methylation Date: 06/24/24 19:11

Extraction Method: EPA 8151A  
 Extraction Date: 06/22/24 16:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	180	11.3	1	A
2,4,5-T	ND		ug/kg	180	5.57	1	A
2,4,5-TP (Silvex)	ND		ug/kg	180	4.78	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	87		30-150	A
DCAA	82		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8151A  
Analytical Date: 06/25/24 07:03  
Analyst: PEG

Extraction Method: EPA 8151A  
Extraction Date: 06/22/24 16:12

Methylation Date: 06/24/24 19:11

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 07,14,21,28,35 Batch: WG1938026-1						
2,4-D	ND		ug/kg	163	10.3	A
2,4,5-T	ND		ug/kg	163	5.06	A
2,4,5-TP (Silvex)	ND		ug/kg	163	4.34	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	86		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 06/24/24 08:20  
Analyst: MMG

Extraction Method: EPA 3546  
Extraction Date: 06/23/24 09:44  
Cleanup Method: EPA 3620B  
Cleanup Date: 06/24/24  
Cleanup Method: EPA 3660B  
Cleanup Date: 06/24/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 07,14,21,28,35 Batch: WG1938125-1						
Delta-BHC	ND		ug/kg	1.57	0.308	A
Lindane	ND		ug/kg	0.654	0.292	A
Alpha-BHC	ND		ug/kg	0.654	0.186	A
Beta-BHC	ND		ug/kg	1.57	0.596	A
Heptachlor	ND		ug/kg	0.785	0.352	A
Aldrin	ND		ug/kg	1.57	0.553	A
Heptachlor epoxide	ND		ug/kg	2.94	0.884	A
Endrin	ND		ug/kg	0.654	0.268	A
Endrin aldehyde	ND		ug/kg	1.96	0.687	A
Endrin ketone	ND		ug/kg	1.57	0.404	A
Dieldrin	ND		ug/kg	0.982	0.491	A
4,4'-DDE	ND		ug/kg	1.57	0.363	A
4,4'-DDD	ND		ug/kg	1.57	0.560	A
4,4'-DDT	ND		ug/kg	1.57	1.26	A
Endosulfan I	ND		ug/kg	1.57	0.371	A
Endosulfan II	ND		ug/kg	1.57	0.525	A
Endosulfan sulfate	ND		ug/kg	0.654	0.312	A
Methoxychlor	ND		ug/kg	2.94	0.916	A
Toxaphene	ND		ug/kg	29.4	8.25	A
cis-Chlordane	ND		ug/kg	1.96	0.547	A
trans-Chlordane	ND		ug/kg	1.96	0.518	A
Chlordane	ND		ug/kg	13.1	5.20	A

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**Method Blank Analysis  
 Batch Quality Control**

Analytical Method: 1,8081B  
 Analytical Date: 06/24/24 08:20  
 Analyst: MMG

Extraction Method: EPA 3546  
 Extraction Date: 06/23/24 09:44  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 06/24/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/24/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 07,14,21,28,35 Batch: WG1938125-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		30-150	A
Decachlorobiphenyl	105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	96		30-150	B
Decachlorobiphenyl	121		30-150	B

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1938026-2 WG1938026-3									
2,4-D	88		108		30-150	20		30	A
2,4,5-T	90		111		30-150	21		30	A
2,4,5-TP (Silvex)	94		115		30-150	20		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	90		111		30-150	A
DCAA	95		116		30-150	B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434443

Project Number: 170562203

Report Date: 06/26/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1938125-2 WG1938125-3									
Delta-BHC	93		95		30-150	2		30	A
Lindane	86		90		30-150	5		30	A
Alpha-BHC	91		94		30-150	3		30	A
Beta-BHC	86		89		30-150	3		30	A
Heptachlor	83		86		30-150	4		30	A
Aldrin	90		92		30-150	2		30	A
Heptachlor epoxide	90		92		30-150	2		30	A
Endrin	102		104		30-150	2		30	A
Endrin aldehyde	92		91		30-150	1		30	A
Endrin ketone	104		104		30-150	0		30	A
Dieldrin	109		110		30-150	1		30	A
4,4'-DDE	101		102		30-150	1		30	A
4,4'-DDD	112		113		30-150	1		30	A
4,4'-DDT	105		106		30-150	1		30	A
Endosulfan I	93		96		30-150	3		30	A
Endosulfan II	103		104		30-150	1		30	A
Endosulfan sulfate	111		112		30-150	1		30	A
Methoxychlor	120		120		30-150	0		30	A
cis-Chlordane	92		94		30-150	2		30	A
trans-Chlordane	99		101		30-150	2		30	A

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2434443

**Report Date:** 06/26/24

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1938125-2 WG1938125-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	86		84		30-150	A
Decachlorobiphenyl	110		112		30-150	A
2,4,5,6-Tetrachloro-m-xylene	97		94		30-150	B
Decachlorobiphenyl	125		120		30-150	B

## METALS



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434443**Project Number:** 170562203**Report Date:** 06/26/24**SAMPLE RESULTS**

Lab ID: L2434443-07

Date Collected: 06/18/24 11:55

Client ID: WC06\_COMP\_0-4

Date Received: 06/18/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/22/24 08:06

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/24/24 16:40	06/24/24 19:39	EPA 3015	1,6010D	DHL
Barium, TCLP	1.21		mg/l	0.500	0.0210	1	06/24/24 16:40	06/24/24 19:39	EPA 3015	1,6010D	DHL
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/24/24 16:40	06/24/24 19:39	EPA 3015	1,6010D	DHL
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/24/24 16:40	06/24/24 19:39	EPA 3015	1,6010D	DHL
Lead, TCLP	3.16		mg/l	0.500	0.0270	1	06/24/24 16:40	06/24/24 19:39	EPA 3015	1,6010D	DHL
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/24/24 14:38	06/25/24 09:39	EPA 7470A	1,7470A	JWN
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/24/24 16:40	06/24/24 19:39	EPA 3015	1,6010D	DHL
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/24/24 16:40	06/24/24 19:39	EPA 3015	1,6010D	DHL



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434443

Project Number: 170562203

Report Date: 06/26/24

## SAMPLE RESULTS

Lab ID: L2434443-07

Date Collected: 06/18/24 11:55

Client ID: WC06\_COMP\_0-4

Date Received: 06/18/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	7090		mg/kg	9.20	2.48	2	06/25/24 04:15	06/25/24 10:16	EPA 3050B	1,6010D	JMF
Antimony, Total	6.17		mg/kg	4.60	0.349	2	06/25/24 04:15	06/25/24 10:16	EPA 3050B	1,6010D	JMF
Arsenic, Total	12.6		mg/kg	0.920	0.191	2	06/25/24 04:15	06/25/24 10:16	EPA 3050B	1,6010D	JMF
Barium, Total	220		mg/kg	0.920	0.160	2	06/25/24 04:15	06/25/24 10:16	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.547		mg/kg	0.460	0.030	2	06/25/24 04:15	06/25/24 10:16	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.483	J	mg/kg	0.920	0.090	2	06/25/24 04:15	06/25/24 10:16	EPA 3050B	1,6010D	JMF
Calcium, Total	5990		mg/kg	9.20	3.22	2	06/25/24 04:15	06/25/24 10:16	EPA 3050B	1,6010D	JMF
Chromium, Total	21.4		mg/kg	0.920	0.088	2	06/25/24 04:15	06/25/24 10:16	EPA 3050B	1,6010D	JMF
Cobalt, Total	12.3		mg/kg	1.84	0.153	2	06/25/24 04:15	06/25/24 10:16	EPA 3050B	1,6010D	JMF
Copper, Total	165		mg/kg	0.920	0.237	2	06/25/24 04:15	06/25/24 10:16	EPA 3050B	1,6010D	JMF
Iron, Total	28900		mg/kg	4.60	0.830	2	06/25/24 04:15	06/25/24 10:16	EPA 3050B	1,6010D	JMF
Lead, Total	644		mg/kg	4.60	0.246	2	06/25/24 04:15	06/25/24 10:16	EPA 3050B	1,6010D	JMF
Magnesium, Total	3370		mg/kg	9.20	1.42	2	06/25/24 04:15	06/25/24 10:16	EPA 3050B	1,6010D	JMF
Manganese, Total	259		mg/kg	0.920	0.146	2	06/25/24 04:15	06/25/24 10:16	EPA 3050B	1,6010D	JMF
Mercury, Total	0.736		mg/kg	0.077	0.050	1	06/25/24 04:38	06/25/24 12:23	EPA 7471B	1,7471B	MJR
Nickel, Total	55.6		mg/kg	2.30	0.222	2	06/25/24 04:15	06/25/24 10:16	EPA 3050B	1,6010D	JMF
Potassium, Total	1330		mg/kg	230	13.2	2	06/25/24 04:15	06/25/24 10:16	EPA 3050B	1,6010D	JMF
Selenium, Total	0.950	J	mg/kg	1.84	0.237	2	06/25/24 04:15	06/25/24 10:16	EPA 3050B	1,6010D	JMF
Silver, Total	0.457	J	mg/kg	0.460	0.260	2	06/25/24 04:15	06/25/24 10:16	EPA 3050B	1,6010D	JMF
Sodium, Total	204		mg/kg	184	2.90	2	06/25/24 04:15	06/25/24 10:16	EPA 3050B	1,6010D	JMF
Thallium, Total	0.562	J	mg/kg	1.84	0.290	2	06/25/24 04:15	06/25/24 10:16	EPA 3050B	1,6010D	JMF
Vanadium, Total	32.6		mg/kg	0.920	0.187	2	06/25/24 04:15	06/25/24 10:16	EPA 3050B	1,6010D	JMF
Zinc, Total	344		mg/kg	4.60	0.269	2	06/25/24 04:15	06/25/24 10:16	EPA 3050B	1,6010D	JMF
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	21.1	J	mg/kg	0.929	0.186	1		06/25/24 10:16	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434443**Project Number:** 170562203**Report Date:** 06/26/24**SAMPLE RESULTS**

Lab ID: L2434443-14

Date Collected: 06/18/24 13:00

Client ID: WC06\_COMP\_4-9

Date Received: 06/18/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/22/24 08:06

Matrix: Soil

Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/24/24 16:40	06/24/24 19:43	EPA 3015	1,6010D	DHL
Barium, TCLP	0.834		mg/l	0.500	0.0210	1	06/24/24 16:40	06/24/24 19:43	EPA 3015	1,6010D	DHL
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/24/24 16:40	06/24/24 19:43	EPA 3015	1,6010D	DHL
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/24/24 16:40	06/24/24 19:43	EPA 3015	1,6010D	DHL
Lead, TCLP	0.346	J	mg/l	0.500	0.0270	1	06/24/24 16:40	06/24/24 19:43	EPA 3015	1,6010D	DHL
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/24/24 14:38	06/25/24 09:42	EPA 7470A	1,7470A	JWN
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/24/24 16:40	06/24/24 19:43	EPA 3015	1,6010D	DHL
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/24/24 16:40	06/24/24 19:43	EPA 3015	1,6010D	DHL



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434443

Project Number: 170562203

Report Date: 06/26/24

## SAMPLE RESULTS

Lab ID: L2434443-14

Date Collected: 06/18/24 13:00

Client ID: WC06\_COMP\_4-9

Date Received: 06/18/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	4560		mg/kg	10.5	2.85	2	06/25/24 04:15	06/25/24 10:19	EPA 3050B	1,6010D	JMF
Antimony, Total	1.51	J	mg/kg	5.27	0.401	2	06/25/24 04:15	06/25/24 10:19	EPA 3050B	1,6010D	JMF
Arsenic, Total	6.04		mg/kg	1.05	0.219	2	06/25/24 04:15	06/25/24 10:19	EPA 3050B	1,6010D	JMF
Barium, Total	265		mg/kg	1.05	0.183	2	06/25/24 04:15	06/25/24 10:19	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.325	J	mg/kg	0.527	0.035	2	06/25/24 04:15	06/25/24 10:19	EPA 3050B	1,6010D	JMF
Cadmium, Total	ND		mg/kg	1.05	0.103	2	06/25/24 04:15	06/25/24 10:19	EPA 3050B	1,6010D	JMF
Calcium, Total	1600		mg/kg	10.5	3.69	2	06/25/24 04:15	06/25/24 10:19	EPA 3050B	1,6010D	JMF
Chromium, Total	11.0		mg/kg	1.05	0.101	2	06/25/24 04:15	06/25/24 10:19	EPA 3050B	1,6010D	JMF
Cobalt, Total	4.91		mg/kg	2.11	0.175	2	06/25/24 04:15	06/25/24 10:19	EPA 3050B	1,6010D	JMF
Copper, Total	155		mg/kg	1.05	0.272	2	06/25/24 04:15	06/25/24 10:19	EPA 3050B	1,6010D	JMF
Iron, Total	17100		mg/kg	5.27	0.952	2	06/25/24 04:15	06/25/24 10:19	EPA 3050B	1,6010D	JMF
Lead, Total	340		mg/kg	5.27	0.282	2	06/25/24 04:15	06/25/24 10:19	EPA 3050B	1,6010D	JMF
Magnesium, Total	1670		mg/kg	10.5	1.62	2	06/25/24 04:15	06/25/24 10:19	EPA 3050B	1,6010D	JMF
Manganese, Total	183		mg/kg	1.05	0.168	2	06/25/24 04:15	06/25/24 10:19	EPA 3050B	1,6010D	JMF
Mercury, Total	0.076	J	mg/kg	0.092	0.060	1	06/25/24 04:38	06/25/24 12:26	EPA 7471B	1,7471B	MJR
Nickel, Total	15.1		mg/kg	2.64	0.255	2	06/25/24 04:15	06/25/24 10:19	EPA 3050B	1,6010D	JMF
Potassium, Total	734		mg/kg	264	15.2	2	06/25/24 04:15	06/25/24 10:19	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	2.11	0.272	2	06/25/24 04:15	06/25/24 10:19	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.527	0.298	2	06/25/24 04:15	06/25/24 10:19	EPA 3050B	1,6010D	JMF
Sodium, Total	71.2	J	mg/kg	211	3.32	2	06/25/24 04:15	06/25/24 10:19	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	2.11	0.332	2	06/25/24 04:15	06/25/24 10:19	EPA 3050B	1,6010D	JMF
Vanadium, Total	14.6		mg/kg	1.05	0.214	2	06/25/24 04:15	06/25/24 10:19	EPA 3050B	1,6010D	JMF
Zinc, Total	318		mg/kg	5.27	0.309	2	06/25/24 04:15	06/25/24 10:19	EPA 3050B	1,6010D	JMF
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	10.3	J	mg/kg	1.09	0.218	1		06/25/24 10:19	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434443**Project Number:** 170562203**Report Date:** 06/26/24**SAMPLE RESULTS**

Lab ID: L2434443-21

Date Collected: 06/18/24 14:30

Client ID: WC11\_COMP\_0-4

Date Received: 06/18/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/22/24 08:06

Matrix: Soil

Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	0.0424	J	mg/l	1.00	0.0190	1	06/24/24 16:40	06/24/24 19:47	EPA 3015	1,6010D	DHL
Barium, TCLP	0.227	J	mg/l	0.500	0.0210	1	06/24/24 16:40	06/24/24 19:47	EPA 3015	1,6010D	DHL
Cadmium, TCLP	0.0101	J	mg/l	0.100	0.0100	1	06/24/24 16:40	06/24/24 19:47	EPA 3015	1,6010D	DHL
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/24/24 16:40	06/24/24 19:47	EPA 3015	1,6010D	DHL
Lead, TCLP	0.108	J	mg/l	0.500	0.0270	1	06/24/24 16:40	06/24/24 19:47	EPA 3015	1,6010D	DHL
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/24/24 14:38	06/25/24 09:45	EPA 7470A	1,7470A	JWN
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/24/24 16:40	06/24/24 19:47	EPA 3015	1,6010D	DHL
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/24/24 16:40	06/24/24 19:47	EPA 3015	1,6010D	DHL



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434443

Project Number: 170562203

Report Date: 06/26/24

## SAMPLE RESULTS

Lab ID: L2434443-21

Date Collected: 06/18/24 14:30

Client ID: WC11\_COMP\_0-4

Date Received: 06/18/24

Sample Location: 145-165 WOLCOTT STREET

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
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	3530		mg/kg	9.41	2.54	2	06/25/24 04:15	06/25/24 10:23	EPA 3050B	1,6010D	JMF
Antimony, Total	1.93	J	mg/kg	4.71	0.358	2	06/25/24 04:15	06/25/24 10:23	EPA 3050B	1,6010D	JMF
Arsenic, Total	44.9		mg/kg	0.941	0.196	2	06/25/24 04:15	06/25/24 10:23	EPA 3050B	1,6010D	JMF
Barium, Total	80.8		mg/kg	0.941	0.164	2	06/25/24 04:15	06/25/24 10:23	EPA 3050B	1,6010D	JMF
Beryllium, Total	1.37		mg/kg	0.471	0.031	2	06/25/24 04:15	06/25/24 10:23	EPA 3050B	1,6010D	JMF
Cadmium, Total	1.58		mg/kg	0.941	0.092	2	06/25/24 04:15	06/25/24 10:23	EPA 3050B	1,6010D	JMF
Calcium, Total	29500		mg/kg	9.41	3.29	2	06/25/24 04:15	06/25/24 10:23	EPA 3050B	1,6010D	JMF
Chromium, Total	7.23		mg/kg	0.941	0.090	2	06/25/24 04:15	06/25/24 10:23	EPA 3050B	1,6010D	JMF
Cobalt, Total	2.83		mg/kg	1.88	0.156	2	06/25/24 04:15	06/25/24 10:23	EPA 3050B	1,6010D	JMF
Copper, Total	58.4		mg/kg	0.941	0.243	2	06/25/24 04:15	06/25/24 10:23	EPA 3050B	1,6010D	JMF
Iron, Total	24400		mg/kg	4.71	0.850	2	06/25/24 04:15	06/25/24 10:23	EPA 3050B	1,6010D	JMF
Lead, Total	339		mg/kg	4.71	0.252	2	06/25/24 04:15	06/25/24 10:23	EPA 3050B	1,6010D	JMF
Magnesium, Total	1370		mg/kg	9.41	1.45	2	06/25/24 04:15	06/25/24 10:23	EPA 3050B	1,6010D	JMF
Manganese, Total	196		mg/kg	0.941	0.150	2	06/25/24 04:15	06/25/24 10:23	EPA 3050B	1,6010D	JMF
Mercury, Total	0.269		mg/kg	0.091	0.059	1	06/25/24 04:38	06/25/24 12:29	EPA 7471B	1,7471B	MJR
Nickel, Total	8.83		mg/kg	2.35	0.228	2	06/25/24 04:15	06/25/24 10:23	EPA 3050B	1,6010D	JMF
Potassium, Total	485		mg/kg	235	13.6	2	06/25/24 04:15	06/25/24 10:23	EPA 3050B	1,6010D	JMF
Selenium, Total	2.10		mg/kg	1.88	0.243	2	06/25/24 04:15	06/25/24 10:23	EPA 3050B	1,6010D	JMF
Silver, Total	0.268	J	mg/kg	0.471	0.266	2	06/25/24 04:15	06/25/24 10:23	EPA 3050B	1,6010D	JMF
Sodium, Total	210		mg/kg	188	2.96	2	06/25/24 04:15	06/25/24 10:23	EPA 3050B	1,6010D	JMF
Thallium, Total	0.368	J	mg/kg	1.88	0.296	2	06/25/24 04:15	06/25/24 10:23	EPA 3050B	1,6010D	JMF
Vanadium, Total	11.4		mg/kg	0.941	0.191	2	06/25/24 04:15	06/25/24 10:23	EPA 3050B	1,6010D	JMF
Zinc, Total	517		mg/kg	4.71	0.276	2	06/25/24 04:15	06/25/24 10:23	EPA 3050B	1,6010D	JMF
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	7.23		mg/kg	0.983	0.196	1		06/25/24 10:23	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434443**Project Number:** 170562203**Report Date:** 06/26/24**SAMPLE RESULTS**

Lab ID: L2434443-28

Date Collected: 06/18/24 15:30

Client ID: WC11\_COMP\_4-9

Date Received: 06/18/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/22/24 08:06

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/24/24 16:40	06/24/24 19:51	EPA 3015	1,6010D	DHL
Barium, TCLP	0.287	J	mg/l	0.500	0.0210	1	06/24/24 16:40	06/24/24 19:51	EPA 3015	1,6010D	DHL
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/24/24 16:40	06/24/24 19:51	EPA 3015	1,6010D	DHL
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/24/24 16:40	06/24/24 19:51	EPA 3015	1,6010D	DHL
Lead, TCLP	0.105	J	mg/l	0.500	0.0270	1	06/24/24 16:40	06/24/24 19:51	EPA 3015	1,6010D	DHL
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/24/24 14:38	06/25/24 09:49	EPA 7470A	1,7470A	JWN
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/24/24 16:40	06/24/24 19:51	EPA 3015	1,6010D	DHL
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/24/24 16:40	06/24/24 19:51	EPA 3015	1,6010D	DHL



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434443

Project Number: 170562203

Report Date: 06/26/24

## SAMPLE RESULTS

Lab ID: L2434443-28

Date Collected: 06/18/24 15:30

Client ID: WC11\_COMP\_4-9

Date Received: 06/18/24

Sample Location: 145-165 WOLCOTT STREET

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
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	3080		mg/kg	8.87	2.39	2	06/25/24 04:15	06/25/24 10:26	EPA 3050B	1,6010D	JMF
Antimony, Total	ND		mg/kg	4.43	0.337	2	06/25/24 04:15	06/25/24 10:26	EPA 3050B	1,6010D	JMF
Arsenic, Total	2.86		mg/kg	0.887	0.184	2	06/25/24 04:15	06/25/24 10:26	EPA 3050B	1,6010D	JMF
Barium, Total	25.8		mg/kg	0.887	0.154	2	06/25/24 04:15	06/25/24 10:26	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.124	J	mg/kg	0.443	0.029	2	06/25/24 04:15	06/25/24 10:26	EPA 3050B	1,6010D	JMF
Cadmium, Total	ND		mg/kg	0.887	0.087	2	06/25/24 04:15	06/25/24 10:26	EPA 3050B	1,6010D	JMF
Calcium, Total	2870		mg/kg	8.87	3.10	2	06/25/24 04:15	06/25/24 10:26	EPA 3050B	1,6010D	JMF
Chromium, Total	7.56		mg/kg	0.887	0.085	2	06/25/24 04:15	06/25/24 10:26	EPA 3050B	1,6010D	JMF
Cobalt, Total	2.28		mg/kg	1.77	0.147	2	06/25/24 04:15	06/25/24 10:26	EPA 3050B	1,6010D	JMF
Copper, Total	13.2		mg/kg	0.887	0.229	2	06/25/24 04:15	06/25/24 10:26	EPA 3050B	1,6010D	JMF
Iron, Total	6540		mg/kg	4.43	0.801	2	06/25/24 04:15	06/25/24 10:26	EPA 3050B	1,6010D	JMF
Lead, Total	15.0		mg/kg	4.43	0.238	2	06/25/24 04:15	06/25/24 10:26	EPA 3050B	1,6010D	JMF
Magnesium, Total	1710		mg/kg	8.87	1.36	2	06/25/24 04:15	06/25/24 10:26	EPA 3050B	1,6010D	JMF
Manganese, Total	67.2		mg/kg	0.887	0.141	2	06/25/24 04:15	06/25/24 10:26	EPA 3050B	1,6010D	JMF
Mercury, Total	ND		mg/kg	0.081	0.053	1	06/25/24 04:38	06/25/24 12:33	EPA 7471B	1,7471B	MJR
Nickel, Total	8.90		mg/kg	2.22	0.214	2	06/25/24 04:15	06/25/24 10:26	EPA 3050B	1,6010D	JMF
Potassium, Total	526		mg/kg	222	12.8	2	06/25/24 04:15	06/25/24 10:26	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	1.77	0.229	2	06/25/24 04:15	06/25/24 10:26	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.443	0.251	2	06/25/24 04:15	06/25/24 10:26	EPA 3050B	1,6010D	JMF
Sodium, Total	49.3	J	mg/kg	177	2.79	2	06/25/24 04:15	06/25/24 10:26	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.77	0.279	2	06/25/24 04:15	06/25/24 10:26	EPA 3050B	1,6010D	JMF
Vanadium, Total	9.24		mg/kg	0.887	0.180	2	06/25/24 04:15	06/25/24 10:26	EPA 3050B	1,6010D	JMF
Zinc, Total	16.5		mg/kg	4.43	0.260	2	06/25/24 04:15	06/25/24 10:26	EPA 3050B	1,6010D	JMF
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	7.56		mg/kg	0.901	0.180	1		06/25/24 10:26	NA	107,-	





**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434443**Project Number:** 170562203**Report Date:** 06/26/24**SAMPLE RESULTS**

Lab ID: L2434443-35

Date Collected: 06/18/24 16:05

Client ID: WC18\_COMP\_9-13

Date Received: 06/18/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/22/24 08:06

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/24/24 16:40	06/24/24 19:55	EPA 3015	1,6010D	DHL
Barium, TCLP	0.382	J	mg/l	0.500	0.0210	1	06/24/24 16:40	06/24/24 19:55	EPA 3015	1,6010D	DHL
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/24/24 16:40	06/24/24 19:55	EPA 3015	1,6010D	DHL
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/24/24 16:40	06/24/24 19:55	EPA 3015	1,6010D	DHL
Lead, TCLP	ND		mg/l	0.500	0.0270	1	06/24/24 16:40	06/24/24 19:55	EPA 3015	1,6010D	DHL
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/24/24 14:38	06/25/24 10:00	EPA 7470A	1,7470A	JWN
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/24/24 16:40	06/24/24 19:55	EPA 3015	1,6010D	DHL
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/24/24 16:40	06/24/24 19:55	EPA 3015	1,6010D	DHL



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434443

Project Number: 170562203

Report Date: 06/26/24

## SAMPLE RESULTS

Lab ID: L2434443-35

Date Collected: 06/18/24 16:05

Client ID: WC18\_COMP\_9-13

Date Received: 06/18/24

Sample Location: 145-165 WOLCOTT STREET

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
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	2860		mg/kg	8.71	2.35	2	06/25/24 04:15	06/25/24 10:30	EPA 3050B	1,6010D	JMF
Antimony, Total	ND		mg/kg	4.35	0.331	2	06/25/24 04:15	06/25/24 10:30	EPA 3050B	1,6010D	JMF
Arsenic, Total	1.49		mg/kg	0.871	0.181	2	06/25/24 04:15	06/25/24 10:30	EPA 3050B	1,6010D	JMF
Barium, Total	29.6		mg/kg	0.871	0.152	2	06/25/24 04:15	06/25/24 10:30	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.154	J	mg/kg	0.435	0.029	2	06/25/24 04:15	06/25/24 10:30	EPA 3050B	1,6010D	JMF
Cadmium, Total	ND		mg/kg	0.871	0.085	2	06/25/24 04:15	06/25/24 10:30	EPA 3050B	1,6010D	JMF
Calcium, Total	699		mg/kg	8.71	3.05	2	06/25/24 04:15	06/25/24 10:30	EPA 3050B	1,6010D	JMF
Chromium, Total	8.32		mg/kg	0.871	0.084	2	06/25/24 04:15	06/25/24 10:30	EPA 3050B	1,6010D	JMF
Cobalt, Total	3.09		mg/kg	1.74	0.144	2	06/25/24 04:15	06/25/24 10:30	EPA 3050B	1,6010D	JMF
Copper, Total	9.38		mg/kg	0.871	0.225	2	06/25/24 04:15	06/25/24 10:30	EPA 3050B	1,6010D	JMF
Iron, Total	5370		mg/kg	4.35	0.786	2	06/25/24 04:15	06/25/24 10:30	EPA 3050B	1,6010D	JMF
Lead, Total	3.80	J	mg/kg	4.35	0.233	2	06/25/24 04:15	06/25/24 10:30	EPA 3050B	1,6010D	JMF
Magnesium, Total	1570		mg/kg	8.71	1.34	2	06/25/24 04:15	06/25/24 10:30	EPA 3050B	1,6010D	JMF
Manganese, Total	42.9		mg/kg	0.871	0.138	2	06/25/24 04:15	06/25/24 10:30	EPA 3050B	1,6010D	JMF
Mercury, Total	ND		mg/kg	0.078	0.051	1	06/25/24 04:38	06/25/24 12:36	EPA 7471B	1,7471B	MJR
Nickel, Total	20.0		mg/kg	2.18	0.211	2	06/25/24 04:15	06/25/24 10:30	EPA 3050B	1,6010D	JMF
Potassium, Total	524		mg/kg	218	12.5	2	06/25/24 04:15	06/25/24 10:30	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	1.74	0.225	2	06/25/24 04:15	06/25/24 10:30	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.435	0.246	2	06/25/24 04:15	06/25/24 10:30	EPA 3050B	1,6010D	JMF
Sodium, Total	107	J	mg/kg	174	2.74	2	06/25/24 04:15	06/25/24 10:30	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.74	0.274	2	06/25/24 04:15	06/25/24 10:30	EPA 3050B	1,6010D	JMF
Vanadium, Total	10.8		mg/kg	0.871	0.177	2	06/25/24 04:15	06/25/24 10:30	EPA 3050B	1,6010D	JMF
Zinc, Total	21.1		mg/kg	4.35	0.255	2	06/25/24 04:15	06/25/24 10:30	EPA 3050B	1,6010D	JMF
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	8.32		mg/kg	0.879	0.176	1		06/25/24 10:30	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

## 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): 07,14,21,28,35 Batch: WG1937968-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	06/25/24 04:15	06/25/24 09:26	1,6010D	JMF
Antimony, Total	ND		mg/kg	2.00	0.152	1	06/25/24 04:15	06/25/24 09:26	1,6010D	JMF
Arsenic, Total	0.120	J	mg/kg	0.400	0.083	1	06/25/24 04:15	06/25/24 09:26	1,6010D	JMF
Barium, Total	ND		mg/kg	0.400	0.070	1	06/25/24 04:15	06/25/24 09:26	1,6010D	JMF
Beryllium, Total	ND		mg/kg	0.200	0.013	1	06/25/24 04:15	06/25/24 09:26	1,6010D	JMF
Cadmium, Total	ND		mg/kg	0.400	0.039	1	06/25/24 04:15	06/25/24 09:26	1,6010D	JMF
Calcium, Total	ND		mg/kg	4.00	1.40	1	06/25/24 04:15	06/25/24 09:26	1,6010D	JMF
Chromium, Total	ND		mg/kg	0.400	0.038	1	06/25/24 04:15	06/25/24 09:26	1,6010D	JMF
Cobalt, Total	ND		mg/kg	0.800	0.066	1	06/25/24 04:15	06/25/24 09:26	1,6010D	JMF
Copper, Total	ND		mg/kg	0.400	0.103	1	06/25/24 04:15	06/25/24 09:26	1,6010D	JMF
Iron, Total	0.635	J	mg/kg	2.00	0.361	1	06/25/24 04:15	06/25/24 09:26	1,6010D	JMF
Lead, Total	ND		mg/kg	2.00	0.107	1	06/25/24 04:15	06/25/24 09:26	1,6010D	JMF
Magnesium, Total	ND		mg/kg	4.00	0.616	1	06/25/24 04:15	06/25/24 09:26	1,6010D	JMF
Manganese, Total	ND		mg/kg	0.400	0.064	1	06/25/24 04:15	06/25/24 09:26	1,6010D	JMF
Nickel, Total	ND		mg/kg	1.00	0.097	1	06/25/24 04:15	06/25/24 09:26	1,6010D	JMF
Potassium, Total	ND		mg/kg	100	5.76	1	06/25/24 04:15	06/25/24 09:26	1,6010D	JMF
Selenium, Total	ND		mg/kg	0.800	0.103	1	06/25/24 04:15	06/25/24 09:26	1,6010D	JMF
Silver, Total	ND		mg/kg	0.200	0.113	1	06/25/24 04:15	06/25/24 09:26	1,6010D	JMF
Sodium, Total	ND		mg/kg	80.0	1.26	1	06/25/24 04:15	06/25/24 09:26	1,6010D	JMF
Thallium, Total	ND		mg/kg	0.800	0.126	1	06/25/24 04:15	06/25/24 09:26	1,6010D	JMF
Vanadium, Total	ND		mg/kg	0.400	0.081	1	06/25/24 04:15	06/25/24 09:26	1,6010D	JMF
Zinc, Total	ND		mg/kg	2.00	0.117	1	06/25/24 04:15	06/25/24 09:26	1,6010D	JMF

### 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): 07,14,21,28,35 Batch: WG1937970-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	06/25/24 04:38	06/25/24 11:38	1,7471B	MJR



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

## Method Blank Analysis Batch Quality Control

### Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 07,14,21,28,35 Batch: WG1938525-1									
Arsenic, TCLP	ND	mg/l	1.00	0.0190	1	06/24/24 16:40	06/24/24 18:35	1,6010D	DHL
Barium, TCLP	ND	mg/l	0.500	0.0210	1	06/24/24 16:40	06/24/24 18:35	1,6010D	DHL
Cadmium, TCLP	ND	mg/l	0.100	0.0100	1	06/24/24 16:40	06/24/24 18:35	1,6010D	DHL
Chromium, TCLP	ND	mg/l	0.200	0.0210	1	06/24/24 16:40	06/24/24 18:35	1,6010D	DHL
Lead, TCLP	ND	mg/l	0.500	0.0270	1	06/24/24 16:40	06/24/24 18:35	1,6010D	DHL
Selenium, TCLP	ND	mg/l	0.500	0.0350	1	06/24/24 16:40	06/24/24 18:35	1,6010D	DHL
Silver, TCLP	ND	mg/l	0.100	0.0280	1	06/24/24 16:40	06/24/24 18:35	1,6010D	DHL

### Prep Information

Digestion Method: EPA 3015  
TCLP/SPLP Extraction Date: 06/21/24 17:10

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 07,14,21,28,35 Batch: WG1938527-1									
Mercury, TCLP	ND	mg/l	0.0010	0.0005	1	06/24/24 14:38	06/25/24 09:22	1,7470A	JWN

### Prep Information

Digestion Method: EPA 7470A  
TCLP/SPLP Extraction Date: 06/21/24 17:10

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2434443

**Project Number:** 170562203

**Report Date:** 06/26/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 07,14,21,28,35 Batch: WG1937968-2								
Aluminum, Total	103		-		80-120	-		
Antimony, Total	99		-		80-120	-		
Arsenic, Total	102		-		80-120	-		
Barium, Total	102		-		80-120	-		
Beryllium, Total	104		-		80-120	-		
Cadmium, Total	98		-		80-120	-		
Calcium, Total	105		-		80-120	-		
Chromium, Total	99		-		80-120	-		
Cobalt, Total	100		-		80-120	-		
Copper, Total	102		-		80-120	-		
Iron, Total	104		-		80-120	-		
Lead, Total	102		-		80-120	-		
Magnesium, Total	102		-		80-120	-		
Manganese, Total	101		-		80-120	-		
Nickel, Total	102		-		80-120	-		
Potassium, Total	106		-		80-120	-		
Selenium, Total	101		-		80-120	-		
Silver, Total	102		-		80-120	-		
Sodium, Total	107		-		80-120	-		
Thallium, Total	102		-		80-120	-		
Vanadium, Total	100		-		80-120	-		

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 07,14,21,28,35 Batch: WG1937968-2					
Zinc, Total	102	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 07,14,21,28,35 Batch: WG1937970-2					
Mercury, Total	98	-	80-120	-	
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07,14,21,28,35 Batch: WG1938525-2					
Arsenic, TCLP	98	-	75-125	-	20
Barium, TCLP	101	-	75-125	-	20
Cadmium, TCLP	100	-	75-125	-	20
Chromium, TCLP	98	-	75-125	-	20
Lead, TCLP	101	-	75-125	-	20
Selenium, TCLP	96	-	75-125	-	20
Silver, TCLP	99	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07,14,21,28,35 Batch: WG1938527-2					
Mercury, TCLP	82	-	80-120	-	

### Matrix Spike Analysis Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434443

Project Number: 170562203

Report Date: 06/26/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 07,14,21,28,35 QC Batch ID: WG1937968-3 WG1937968-4 QC Sample: L2434370-02 Client ID: MS Sample												
Aluminum, Total	7660	162	10200	1560	Q	9390	1050	Q	75-125	8		20
Antimony, Total	ND	40.6	33.3	82		34.1	83		75-125	2		20
Arsenic, Total	3.07	9.75	13.2	104		12.8	98		75-125	3		20
Barium, Total	48.0	162	204	96		202	94		75-125	1		20
Beryllium, Total	0.397J	4.06	4.27	105		4.34	105		75-125	2		20
Cadmium, Total	ND	4.31	3.75	87		3.76	86		75-125	0		20
Calcium, Total	4200	812	4190	0	Q	4420	27	Q	75-125	5		20
Chromium, Total	11.4	16.2	30.2	116		29.0	107		75-125	4		20
Cobalt, Total	5.82	40.6	42.5	90		42.2	88		75-125	1		20
Copper, Total	14.9	20.3	39.4	121		37.7	111		75-125	4		20
Iron, Total	15600	81.2	18600	3690	Q	17600	2430	Q	75-125	6		20
Lead, Total	6.77	43.1	49.9	100		49.2	97		75-125	1		20
Magnesium, Total	2810	812	4100	159	Q	4110	158	Q	75-125	0		20
Manganese, Total	306	40.6	405	244	Q	372	160	Q	75-125	8		20
Nickel, Total	10.7	40.6	49.4	95		48.8	92		75-125	1		20
Potassium, Total	732	812	1700	119		1650	111		75-125	3		20
Selenium, Total	ND	9.75	8.76	90		8.86	90		75-125	1		20
Silver, Total	ND	4.06	3.89	96		3.95	96		75-125	2		20
Sodium, Total	436	812	1020	72	Q	1030	72	Q	75-125	1		20
Thallium, Total	ND	9.75	9.30	95		9.15	92		75-125	2		20
Vanadium, Total	21.7	40.6	66.8	111		65.7	107		75-125	2		20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

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): 07,14,21,28,35 QC Batch ID: WG1937968-3 WG1937968-4 QC Sample: L2434370-02 Client ID: MS Sample									
Zinc, Total	29.0	40.6	75.8	115	69.9	99	75-125	8	20
Total Metals - Mansfield Lab Associated sample(s): 07,14,21,28,35 QC Batch ID: WG1937970-3 WG1937970-4 QC Sample: L2434370-02 Client ID: MS Sample									
Mercury, Total	ND	1.34	1.33	99	1.33	99	80-120	0	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07,14,21,28,35 QC Batch ID: WG1938525-3 QC Sample: L2435090-01 Client ID: MS Sample									
Arsenic, TCLP	ND	1.2	1.23	102	-	-	75-125	-	20
Barium, TCLP	0.645	20	21.1	102	-	-	75-125	-	20
Cadmium, TCLP	ND	0.53	0.543	102	-	-	75-125	-	20
Chromium, TCLP	ND	2	1.99	100	-	-	75-125	-	20
Lead, TCLP	0.109J	5.3	5.50	104	-	-	75-125	-	20
Selenium, TCLP	ND	1.2	1.23	102	-	-	75-125	-	20
Silver, TCLP	ND	0.5	0.513	103	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07,14,21,28,35 QC Batch ID: WG1938527-3 QC Sample: L2435157-01 Client ID: MS Sample									
Mercury, TCLP	ND	0.025	0.0229	92	-	-	75-125	-	20





## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2434443

Report Date: 06/26/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07,14,21,28,35 QC Batch ID: WG1938525-4 QC Sample: L2435090-01 Client ID: DUP Sample						
Lead, TCLP	0.109J	0.113J	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07,14,21,28,35 QC Batch ID: WG1938527-4 QC Sample: L2435157-01 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

**Lab Serial Dilution  
Analysis  
Batch Quality Control**

Lab Number: L2434443

Report Date: 06/26/24

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 07,14,21,28,35 QC Batch ID: WG1937968-6 QC Sample: L2434370-02 Client ID: DUP Sample						
Aluminum, Total	7660	8110	mg/kg	6		20
Barium, Total	48.0	51.0	mg/kg	6		20
Calcium, Total	4200	4540	mg/kg	8		20
Iron, Total	15600	17300	mg/kg	11		20
Magnesium, Total	2810	3080	mg/kg	10		20
Manganese, Total	306	329	mg/kg	8		20
Vanadium, Total	21.7	22.7	mg/kg	5		20

# **INORGANICS & MISCELLANEOUS**

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

### SAMPLE RESULTS

**Lab ID:** L2434443-07  
**Client ID:** WC06\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/18/24 11:55  
**Date Received:** 06/18/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/24/24 15:01	1,1030	GEF



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

### SAMPLE RESULTS

**Lab ID:** L2434443-14  
**Client ID:** WC06\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/18/24 13:00  
**Date Received:** 06/18/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Wet Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/24/24 15:01	1,1030	GEF



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

### SAMPLE RESULTS

**Lab ID:** L2434443-21  
**Client ID:** WC11\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/18/24 14:30  
**Date Received:** 06/18/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/24/24 15:01	1,1030	GEF



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

### SAMPLE RESULTS

**Lab ID:** L2434443-28  
**Client ID:** WC11\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/18/24 15:30  
**Date Received:** 06/18/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Wet Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/24/24 15:01	1,1030	GEF



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

### SAMPLE RESULTS

**Lab ID:** L2434443-35  
**Client ID:** WC18\_COMP\_9-13  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/18/24 16:05  
**Date Received:** 06/18/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Wet Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/24/24 15:01	1,1030	GEF





Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434443

Project Number: 170562203

Report Date: 06/26/24

## SAMPLE RESULTS

Lab ID: L2434443-01

Date Collected: 06/18/24 11:20

Client ID: WC06A\_GRAB\_2-4

Date Received: 06/18/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.6		%	0.100	NA	1	-	06/20/24 10:49	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

**Lab ID:** L2434443-07  
**Client ID:** WC06\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/18/24 11:55  
**Date Received:** 06/18/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	86.1		%	0.100	NA	1	-	06/21/24 09:49	121,2540G	ROI
Cyanide, Total	0.29	J	mg/kg	1.1	0.23	1	06/25/24 11:00	06/25/24 14:53	1,9010C/9012B	JER
pH (H)	7.55		SU	-	NA	1	-	06/21/24 18:09	1,9045D	AAS
Chromium, Hexavalent	0.290	J	mg/kg	0.929	0.186	1	06/24/24 12:40	06/25/24 09:37	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/21/24 15:26	06/21/24 16:50	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/21/24 15:26	06/21/24 17:06	125,7.3	JLB



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434443**Project Number:** 170562203**Report Date:** 06/26/24**SAMPLE RESULTS**

Lab ID: L2434443-08

Date Collected: 06/18/24 12:30

Client ID: WC06D\_GRAB\_7-9

Date Received: 06/18/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	93.0		%	0.100	NA	1	-	06/20/24 10:49	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

**Lab ID:** L2434443-14  
**Client ID:** WC06\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/18/24 13:00  
**Date Received:** 06/18/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	73.3		%	0.100	NA	1	-	06/21/24 09:49	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.3	0.27	1	06/25/24 11:00	06/25/24 14:56	1,9010C/9012B	JER
pH (H)	7.64		SU	-	NA	1	-	06/21/24 18:09	1,9045D	AAS
Chromium, Hexavalent	0.668	J	mg/kg	1.09	0.218	1	06/24/24 12:40	06/25/24 09:37	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/21/24 15:26	06/21/24 16:50	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/21/24 15:26	06/21/24 17:06	125,7.3	JLB



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434443

Project Number: 170562203

Report Date: 06/26/24

## SAMPLE RESULTS

Lab ID: L2434443-15

Date Collected: 06/18/24 14:00

Client ID: WC11D\_GRAB\_2-4

Date Received: 06/18/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	61.8		%	0.100	NA	1	-	06/20/24 10:49	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

**Lab ID:** L2434443-21  
**Client ID:** WC11\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/18/24 14:30  
**Date Received:** 06/18/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	81.4		%	0.100	NA	1	-	06/21/24 09:49	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	06/25/24 11:00	06/25/24 14:57	1,9010C/9012B	JER
pH (H)	6.88		SU	-	NA	1	-	06/21/24 18:09	1,9045D	AAS
Chromium, Hexavalent	ND		mg/kg	0.983	0.196	1	06/24/24 12:40	06/25/24 09:37	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/21/24 15:26	06/21/24 16:50	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/21/24 15:26	06/21/24 17:07	125,7.3	JLB



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434443**Project Number:** 170562203**Report Date:** 06/26/24**SAMPLE RESULTS**

Lab ID: L2434443-22

Date Collected: 06/18/24 15:00

Client ID: WC11B\_GRAB\_5-7

Date Received: 06/18/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	88.8		%	0.100	NA	1	-	06/20/24 10:49	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

**Lab ID:** L2434443-28  
**Client ID:** WC11\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/18/24 15:30  
**Date Received:** 06/18/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	88.8		%	0.100	NA	1	-	06/21/24 09:49	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	06/25/24 11:00	06/25/24 14:58	1,9010C/9012B	JER
pH (H)	5.16		SU	-	NA	1	-	06/21/24 18:09	1,9045D	AAS
Chromium, Hexavalent	ND		mg/kg	0.901	0.180	1	06/24/24 12:40	06/25/24 09:37	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/21/24 15:26	06/21/24 16:51	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/21/24 15:26	06/21/24 17:08	125,7.3	JLB





**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434443**Project Number:** 170562203**Report Date:** 06/26/24**SAMPLE RESULTS**

Lab ID: L2434443-29

Date Collected: 06/18/24 15:35

Client ID: WC06D\_GRAB\_10-12

Date Received: 06/18/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	96.7		%	0.100	NA	1	-	06/20/24 10:49	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**SAMPLE RESULTS**

**Lab ID:** L2434443-35  
**Client ID:** WC18\_COMP\_9-13  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/18/24 16:05  
**Date Received:** 06/18/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	91.0		%	0.100	NA	1	-	06/21/24 09:49	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	06/25/24 11:00	06/25/24 14:59	1,9010C/9012B	JER
pH (H)	5.48		SU	-	NA	1	-	06/21/24 18:09	1,9045D	AAS
Chromium, Hexavalent	ND		mg/kg	0.879	0.176	1	06/24/24 12:40	06/25/24 09:37	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/21/24 15:26	06/21/24 16:51	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/21/24 15:26	06/21/24 17:08	125,7.3	JLB



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

**Method Blank Analysis**  
**Batch Quality Control**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 07,14,21,28,35 Batch: WG1937695-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/21/24 15:26	06/21/24 16:44	125,7.3	JLB
General Chemistry - Westborough Lab for sample(s): 07,14,21,28,35 Batch: WG1937698-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/21/24 15:26	06/21/24 17:09	125,7.3	JLB
General Chemistry - Westborough Lab for sample(s): 07,14,21,28,35 Batch: WG1938365-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	06/24/24 12:40	06/25/24 09:37	1,7196A	RDS
General Chemistry - Westborough Lab for sample(s): 07,14,21,28,35 Batch: WG1938977-1										
Cyanide, Total	ND		mg/kg	0.91	0.19	1	06/25/24 11:00	06/25/24 15:22	1,9010C/9012B	JER

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2434443

**Report Date:** 06/26/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1937695-2								
Cyanide, Reactive	99		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1937698-2								
Sulfide, Reactive	111		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1937752-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1938365-2								
Chromium, Hexavalent	124	Q	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1938977-2 WG1938977-3								
Cyanide, Total	110		81		80-120	30		35

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2434443

**Project Number:** 170562203

**Report Date:** 06/26/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,28,35 QC Batch ID: WG1938365-4 QC Sample: L2434443-07 Client ID: WC06_COMP_0-4												
Chromium, Hexavalent	0.290J	1240	7.63	1	Q	-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,28,35 QC Batch ID: WG1938977-4 WG1938977-5 QC Sample: L2434443-07 Client ID: WC06_COMP_0-4												
Cyanide, Total	0.29J	11	11	100		12	100		75-125	0		35

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2434443

Report Date: 06/26/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,08,15,22,29 QC Batch ID: WG1936972-1 QC Sample: L2433059-04 Client ID: DUP Sample						
Solids, Total	84.4	84.9	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,28,35 QC Batch ID: WG1937455-1 QC Sample: L2434236-31 Client ID: DUP Sample						
Solids, Total	85.0	85.6	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,28,35 QC Batch ID: WG1937695-3 QC Sample: L2434443-35 Client ID: WC18_COMP_9-13						
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,28,35 QC Batch ID: WG1937698-3 QC Sample: L2434443-35 Client ID: WC18_COMP_9-13						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,28,35 QC Batch ID: WG1937752-2 QC Sample: L2434355-01 Client ID: DUP Sample						
pH	7.44	7.54	SU	1		5
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,28,35 QC Batch ID: WG1938365-6 QC Sample: L2434443-07 Client ID: WC06_COMP_0-4						
Chromium, Hexavalent	0.290J	0.314J	mg/kg	NC		20

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

Serial\_No:06262415:59  
**Lab Number:** L2434443  
**Report Date:** 06/26/24

**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information**

<b>Cooler</b>	<b>Custody Seal</b>
A	Absent
B	Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2434443-01A	Vial MeOH preserved	B	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2434443-01B	Vial water preserved	B	NA		3.2	Y	Absent	19-JUN-24 13:44	NYTCL-8260HLW(14)
L2434443-01C	Vial water preserved	B	NA		3.2	Y	Absent	19-JUN-24 13:44	NYTCL-8260HLW(14)
L2434443-01D	Plastic 120ml unpreserved	B	NA		3.2	Y	Absent		TS(7)
L2434443-01E	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		NJEPH-TPH-CAT1(14)
L2434443-02A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L2434443-02B	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM(),HOLD-8081(14),HOLD-8082(14)
L2434443-03A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L2434443-03B	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM(),HOLD-8081(14),HOLD-8082(14)
L2434443-04A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L2434443-04B	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM(),HOLD-8081(14),HOLD-8082(14)
L2434443-05A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L2434443-05B	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM(),HOLD-8081(14),HOLD-8082(14)
L2434443-06A	Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L2434443-06B	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM(),HOLD-8081(14),HOLD-8082(14)
L2434443-07A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),NI-TI(180),CR-TI(180),SE-TI(180),PB-TI(180),CU-TI(180),SB-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),MG-TI(180),MN-TI(180),FE-TI(180),K-TI(180),CD-TI(180),CA-TI(180),NA-TI(180)
L2434443-07B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		-
L2434443-07C	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HEXCR-7196(30)

\*Values in parentheses indicate holding time in days



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Serial\_No:**06262415:59  
**Lab Number:** L2434443  
**Report Date:** 06/26/24

**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2434443-07D	Glass 500ml/16oz unpreserved	B	NA		3.2	Y	Absent		IGNIT-1030(14),NYTCL-8270(14),REACTS(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14)
L2434443-07X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.2	Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2434443-07X9	Tumble Vessel	B	NA		3.2	Y	Absent		-
L2434443-08A	Vial MeOH preserved	B	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2434443-08B	Vial water preserved	B	NA		3.2	Y	Absent	19-JUN-24 13:44	NYTCL-8260HLW(14)
L2434443-08C	Vial water preserved	B	NA		3.2	Y	Absent	19-JUN-24 13:44	NYTCL-8260HLW(14)
L2434443-08D	Plastic 120ml unpreserved	B	NA		3.2	Y	Absent		TS(7)
L2434443-08E	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		NJEPH-TPH-CAT1(14)
L2434443-09A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L2434443-09B	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM(),HOLD-8081(14),HOLD-8082(14)
L2434443-10A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L2434443-10B	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM(),HOLD-8081(14),HOLD-8082(14)
L2434443-11A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434443-11B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434443-12A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434443-12B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434443-13A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434443-13B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434443-14A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	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),SB-TI(180),ZN-TI(180),CU-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),HG-T(28),FE-TI(180),K-TI(180),NA-TI(180),CA-TI(180),CD-TI(180)
L2434443-14B	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		-
L2434443-14C	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HEXCR-7196(30)
L2434443-14D	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		NYTCL-8270(14),REACTS(14),TCN-9010(14),IGNIT-1030(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365)



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**Project Number:** 170562203

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**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2434443-14X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.7	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2434443-14X9	Tumble Vessel	A	NA		2.7	Y	Absent		-
L2434443-15A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2434443-15B	Vial water preserved	A	NA		2.7	Y	Absent	19-JUN-24 13:44	NYTCL-8260HLW(14)
L2434443-15C	Vial water preserved	A	NA		2.7	Y	Absent	19-JUN-24 13:44	NYTCL-8260HLW(14)
L2434443-15D	Plastic 120ml unpreserved	A	NA		2.7	Y	Absent		TS(7)
L2434443-15E	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NJEPH-TPH-CAT1(14)
L2434443-16A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434443-16B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434443-17A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434443-17B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434443-18A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434443-18B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434443-19A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434443-19B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434443-20A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434443-20B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434443-21A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	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),SE-TI(180),SB-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),NA-TI(180),K-TI(180),CA-TI(180),CD-TI(180)
L2434443-21B	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		-
L2434443-21C	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HEXCR-7196(30)
L2434443-21D	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		REACTS(14),TCN-9010(14),IGNIT-1030(14),NYTCL-8270(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14)
L2434443-21X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.7	Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2434443-21X9	Tumble Vessel	A	NA		2.7	Y	Absent		-

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

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**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2434443-22A	Vial MeOH preserved	A	NA		2.7	Y	Absent		NYTCL-8260HLW(14)
L2434443-22B	Vial water preserved	A	NA		2.7	Y	Absent	19-JUN-24 13:44	NYTCL-8260HLW(14)
L2434443-22C	Vial water preserved	A	NA		2.7	Y	Absent	19-JUN-24 13:44	NYTCL-8260HLW(14)
L2434443-22D	Plastic 120ml unpreserved	A	NA		2.7	Y	Absent		TS(7)
L2434443-22E	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		NJEPH-TPH-CAT1(14)
L2434443-23A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434443-23B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434443-24A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434443-24B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434443-25A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L2434443-25B	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434443-26A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L2434443-26B	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434443-27A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		HOLD-METAL(180)
L2434443-27B	Glass 250ml/8oz unpreserved	B	NA		3.2	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434443-28A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		3.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),AL-TI(180),TL-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),CA-TI(180),NA-TI(180),K-TI(180),CD-TI(180)
L2434443-28B	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		-
L2434443-28C	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		HEXCR-7196(30)
L2434443-28D	Glass 500ml/16oz unpreserved	B	NA		3.2	Y	Absent		TCN-9010(14),IGNIT-1030(14),REACTS(14),NYTCL-8270(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365)
L2434443-28X	Plastic 120ml HNO3 preserved Extracts	B	NA		3.2	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2434443-28X9	Tumble Vessel	B	NA		3.2	Y	Absent		-
L2434443-29A	Vial MeOH preserved	B	NA		3.2	Y	Absent		NYTCL-8260HLW(14)
L2434443-29B	Vial water preserved	B	NA		3.2	Y	Absent	19-JUN-24 13:44	NYTCL-8260HLW(14)
L2434443-29C	Vial water preserved	B	NA		3.2	Y	Absent	19-JUN-24 13:44	NYTCL-8260HLW(14)

\*Values in parentheses indicate holding time in days



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**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2434443-29D	Plastic 120ml unpreserved	B	NA		3.2	Y	Absent		TS(7)
L2434443-29E	Glass 120ml/4oz unpreserved	B	NA		3.2	Y	Absent		NJEPH-TPH-CAT1(14)
L2434443-30A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434443-30B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434443-31A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434443-31B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434443-32A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434443-32B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434443-33A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434443-33B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434443-34A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	Y	Absent		HOLD-METAL(180)
L2434443-34B	Glass 250ml/8oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2434443-35A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.7	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),SB-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),MG-TI(180),HG-T(28),FE-TI(180),MN-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)
L2434443-35B	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		-
L2434443-35C	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HEXCR-7196(30)
L2434443-35D	Glass 500ml/16oz unpreserved	A	NA		2.7	Y	Absent		REACTS(14),IGNIT-1030(14),NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14)
L2434443-35X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.7	Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2434443-35X9	Tumble Vessel	A	NA		2.7	Y	Absent		-
L2434443-36B	Glass 120ml/4oz unpreserved	A	NA		2.7	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM(),HOLD-METAL(180)

**Project Name:** 145-165 WOLCOTT STREET  
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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



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### 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.)

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434443  
**Report Date:** 06/26/24

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 103 Analysis of Extractable Petroleum Hydrocarbon Compounds (EPH) in Aqueous and Soil/Sediment/Sludge Matrices. New Jersey Department of Environmental Protection, Site Remediation Program, (Version 1.1), Document # NJDEP EPH 10/08, Revision 3, August 2010.
- 107 Alpha Analytical - In-house calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 624.1:** 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, NO<sub>2</sub>, NO<sub>3</sub>.

### 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.




 <b>NEW YORK CHAIN OF CUSTODY</b>	<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 1 of 4	Date Rec'd in Lab <b>6/19/24</b>	ALPHA Job # <b>L2434443</b>																									
	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																											
<b>Project Information</b> Project Name: 145-165 Wolcott Street Project Location: 145-165 Wolcott Street Project #: 170562203 (Use Project name as Project #) <input type="checkbox"/>		<b>Deliverables</b> <input checked="" type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQulS (1 File) <input type="checkbox"/> EQulS (4 File) <input type="checkbox"/> Other		<b>Billing Information</b> <input checked="" type="checkbox"/> Same as Client Info PO #																									
<b>Client Information</b> Client: Langan Address: 360 West 31st Street, 8th Floor New York, NY 10001 Phone: 212.479.5400 Fax: Email: npalumbo@langan.com		<b>Regulatory Requirement</b> <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		<b>Disposal Site Information</b> Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																									
Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		<b>ANALYSIS</b>																											
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Copy lgrose@langan.com, and DataManagement@langan.com on laboratory results  Please specify Metals or TAL.		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%;"></td> <td style="width:5%;">Group A</td> <td style="width:5%;">Group B</td> <td style="width:5%;">Group C</td> <td style="width:5%;">Group D</td> <td style="width:5%;">GROUP E-HOLD</td> <td style="width:5%;"></td> <td style="width:5%;"></td> <td style="width:5%;"></td> <td style="width:5%;"></td> <td style="width:5%;"></td> <td style="width:5%;"></td> </tr> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg);">C O L L E C T I O N B O T T L E S</td> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td> </tr> </table>			Group A	Group B	Group C	Group D	GROUP E-HOLD							C O L L E C T I O N B O T T L E S													<b>Sample Filtration</b> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <b>Preservation</b> <input type="checkbox"/> Lab to do  (Please Specify below)
	Group A			Group B	Group C	Group D	GROUP E-HOLD																						
C O L L E C T I O N B O T T L E S																													
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials							Sample Specific Comments																	
34443-01	WCO6A-GRAB-3-4	6/18/2024	11:20	S	LC																								
-02	WCO6A-0-1 HOLD		11:30	S	LC																								
-03	WCO6B-1-2 HOLD		11:35	S	LC																								
-04	WCO6C-3-4 HOLD		11:40	S	LC																								
-05	WCO6D-2-3 HOLD		11:45	S	LC																								
-06	WCO6E-2-3 HOLD		11:50	S	LC																								
-07	WCO6-COMP-0-4		11:55	S	LC																								
-08	WCO6D-GRAB-8-9		12:30	S	LC																								
-09	WCO6C-4-5 HOLD		12:35	S	LC																								
-10	WCO6D-5-6 HOLD		12:40	S	LC																								
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type  Preservative								Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S <u>TERMS &amp; CONDITIONS.</u>															
		Relinquished By: Lisa Cristiano/Langan Date/Time: 6/18/24 16:15		Received By: Anthony Green Date/Time: JUN 18 2024 2:10																									
		Relinquished By: Anthony Green Date/Time: 6/19/24 0110		Received By: [Signature] Date/Time: 6/19/24 0110																									
		Relinquished By: [Signature] Date/Time: 6/19/24 0315		Received By: [Signature] Date/Time: 6/19/24 0315																									

 <b>NEW YORK CHAIN OF CUSTODY</b> Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193	<b>NEW YORK CHAIN OF CUSTODY</b> 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 2 of 4	Date Rec'd in Lab <b>6/19/24</b>	ALPHA Job # <b>L2434443</b>						
		<b>Project Information</b> Project Name: 145-165 Wolcott Street Project Location: 145-165 Wolcott Street Project #: 170562203 (Use Project name as Project #) <input type="checkbox"/>		<b>Deliverables</b> <input checked="" type="checkbox"/> ASP-A <del><input checked="" type="checkbox"/> ASP-B</del> <input type="checkbox"/> EQulS (1 File) <input type="checkbox"/> EQulS (4 File) <input type="checkbox"/> Other		<b>Billing Information</b> <input checked="" type="checkbox"/> Same as Client Info PO #					
<b>Client Information</b> Client: Langan Address: 360 West 31st Street, 8th Floor New York, NY 10001 Phone: 212.479.5400 Fax: npalumbo@langan.com Email: npalumbo@langan.com		<b>Project Manager:</b> Nicholas Palumbo <b>ALPHAQuote #:</b> <b>Turn-Around Time:</b> Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		<b>Regulatory Requirement</b> <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		<b>Disposal Site Information</b> Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:					
These samples have been previously analyzed by Alpha <input type="checkbox"/> <b>Other project specific requirements/comments:</b> Copy lgrose@langan.com, and DataManagement@langan.com on laboratory results <b>Please specify Metals or TAL.</b>			<b>ANALYSIS</b>		<b>Sample Filtration</b> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <b>Preservation</b> <input type="checkbox"/> Lab to do (Please Specify below)						
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials	Group A	Group B	Group C	Group D	Group E-HOLD	Sample Specific Comments
34443-11	WCO6E-8-9	6/18/2024	12:45	S	LC						
12	WCO6E-6-7		12:50	S	LC						
13	WCO6E-7-8		12:55	S	LC						
14	WCO6-COMP-4-9		13:00	S	LC						
15	WC11D-GRAB-3-4		14:00	S	LC						
16	WC11A-1-2		14:05	S	LC						
17	WC11B-2-3		14:10	S	LC						
18	WC11C-2-3		14:15	S	LC						
19	WC11D-0-1		14:20	S	LC						
20	WC11D-3-4		14:25	S	LC						
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S <a href="#">TERMS &amp; CONDITIONS</a> .			
Relinquished By: Lisa Cristiano/Langan Date/Time: 6/18/24 16:15		Received By: Anthony Green Date/Time: 6/18/24 16:15		Relinquished By: Anthony Green Date/Time: 6/19/24 0110		Received By: [Signature] Date/Time: 6/19/24 0315					



 <b>NEW YORK CHAIN OF CUSTODY</b>	<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1	Date Rec'd in Lab <b>6/19/24</b>	ALPHA Job # <b>2243 4443</b>						
		3 of 4								
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	<b>Project Information</b>		<b>Deliverables</b>	<b>Billing Information</b>					
<b>Client Information</b>		Project Name: 145-165 Wolcott Street Project Location: 145-165 Wolcott Street Project #: 170562203 (Use Project name as Project #) <input type="checkbox"/>		<input checked="" type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EquiS (1 File) <input type="checkbox"/> EquiS (4 File) <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Same as Client Info PO #					
Client: Langan Address: 360 West 31st Street, 8th Floor New York, NY 10001 Phone: 212.479.5400 Fax: Email: npalumbo@langan.com		Project Manager: Nicholas Palumbo ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		<b>Regulatory Requirement</b>	<b>Disposal Site Information</b>					
				<input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge	Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:					
These samples have been previously analyzed by Alpha <input type="checkbox"/> <b>Other project specific requirements/comments:</b> Copy lgrose@langan.com, and DataManagement@langan.com on laboratory results  Please specify Metals or TAL.				<b>ANALYSIS</b>						
				<b>Sample Filtration</b>	Bot t l e					
				<input type="checkbox"/> Done <input type="checkbox"/> Lab to do <b>Preservation</b> <input type="checkbox"/> Lab to do  (Please Specify below)						
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date     Time	Sample Matrix	Sampler's Initials	Group A	Group B	Group C	Group D	Group E - HOLD	Sample Specific Comments
34443-21	WC11-COMP-0-4	6/18/2024 14:30	S	LC	X					
22	WC11B-GRAB-6-7		S	LC		X				
23	WC11A-6-7		S	LC						HOLD
24	WC11B-5-6		S	LC						HOLD
25	WC11C-4-5		S	LC						HOLD
26	WC11D-8-9		S	LC						HOLD
27	WC11D-7-8		S	LC						HOLD
28	WC11-COMP-4-9		S	LC	X					
29	WCC6D-GRAB-11-12		S	LC		X				
30	WCC6D-10-11		S	LC	X					
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type  Preservative		Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S <b>TERMS &amp; CONDITIONS.</b>		
		Relinquished By: Lisa Cristiano/Langan <i>[Signature]</i> Date/Time: 6/18/24 16:15		Received By: <i>[Signature]</i> Date/Time: 6/18/24 16:15		Relinquished By: <i>[Signature]</i> Date/Time: 6/18/24 19:30		Received By: <i>[Signature]</i> Date/Time: 6/19/24 0110		
		Relinquished By: <i>[Signature]</i> Date/Time: 6/19/24 0110		Received By: <i>[Signature]</i> Date/Time: 6/19/24 0315		Relinquished By: <i>[Signature]</i> Date/Time: 6/19/24 0315		Received By: <i>[Signature]</i> Date/Time: 6/19/24 0315		

 <b>NEW YORK CHAIN OF CUSTODY</b>	<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 4 of 4	Date Rec'd in Lab 6/19/24	ALPHA Job # L243443																																																																																																																																						
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**145-165 Wolcott Street  
Langan Project No.: 170562203**

**Sample Analysis Reference Sheet**

**Group A**

Part 375/TCL/NJDEP/PADEP SVOCs  
Pesticides  
Herbicides  
PCBs  
Part 375/TAL Metals  
Hexavalent Chromium  
Trivalent Chromium  
Total Cyanide  
TCLP Metals  
RCRA Characteristics

**Group B**

Part 375/TCL VOCs, NJDEP EPH

**Group C**

Part 375/TCL/NJDEP/PADEP SVOCs  
Pesticides  
Herbicides  
PCBs  
Part 375/TAL Metals  
Hexavalent Chromium  
Trivalent Chromium  
Total Cyanide  
TCLP Metals  
RCRA Characteristics  
Full TCLP (Minus VOCs)  
Paint Filter

**Group D**

Part 375/TCL VOCs, TCLP VOCs, NJDEP EPH

**Group E - HOLD**

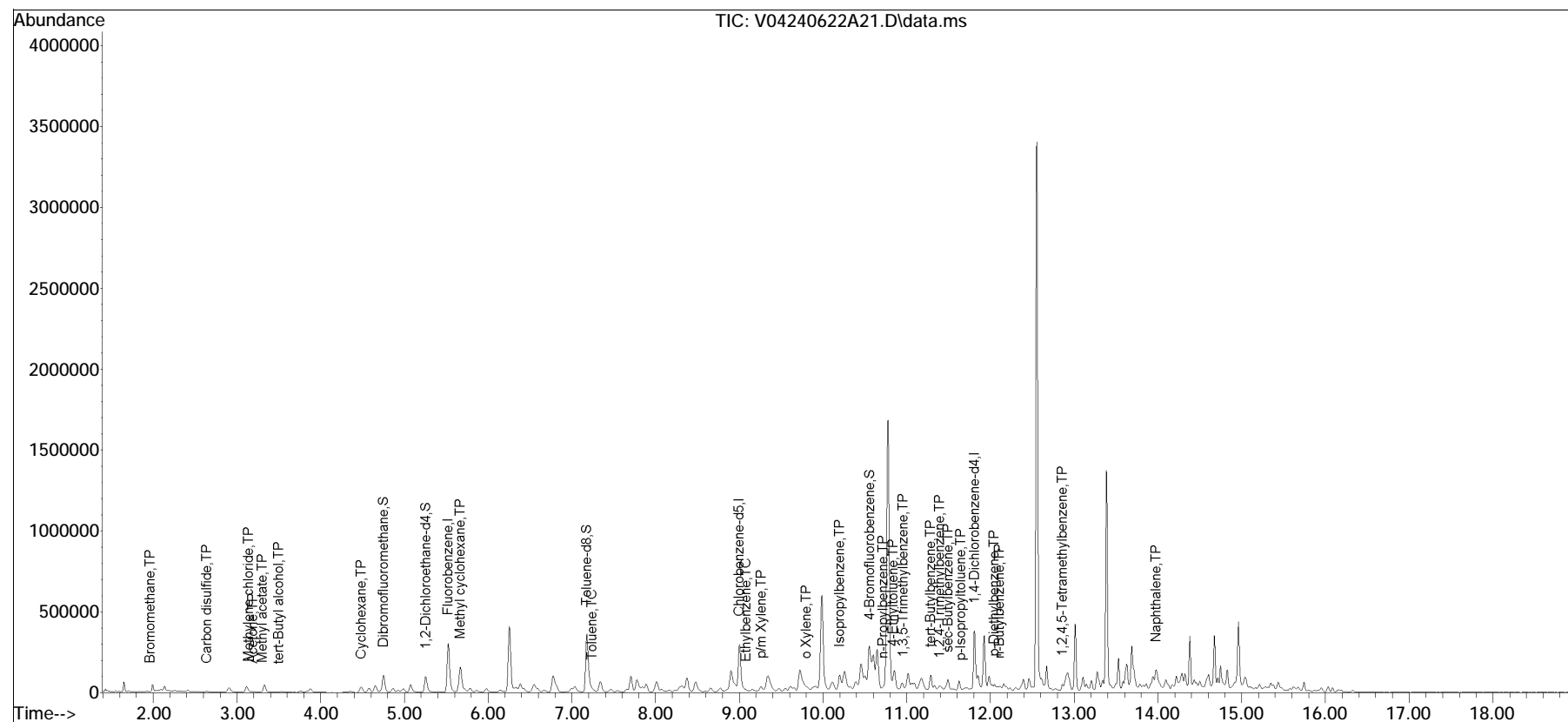
Total and TCLP Metals

## Quantitation Report (QT Reviewed)

Data Path : K:\VOA104\2024\240622A\  
 Data File : V04240622A21.D  
 Acq On : 22 Jun 2024 5:54 pm  
 Operator : VOA104:LAC  
 Sample : L2434443-01,31H,3.96,5,0.100,,A  
 Misc : WG1938619,ICAL21038  
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jun 24 13:54:06 2024  
 Quant Method : K:\VOA104\2024\240622A\V104\_240410N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Apr 11 11:43:39 2024  
 Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox22A02.D•





JOB: L2434687      REPORT STYLE: Data Usability Report  
0010: Alpha Analytical Report Cover Page - OK  
0015: Sample Cross Reference Summary - OK  
0060: Case Narrative - OK  
0100: Volatiles Cover Page - OK  
0110: Volatiles Sample Results - OK  
0120: Volatiles Method Blank Report - OK  
0130: Volatiles LCS Report - OK  
0180: Semivolatiles Cover Page - OK  
0190: Semivolatiles Sample Results - OK  
0200: Semivolatiles Method Blank Report - OK  
0210: Semivolatiles LCS Report - OK  
0400: Petroleum Cover Page - OK  
0410: Petroleum Sample Results - OK  
0420: Petroleum Method Blank Report - OK  
0430: Petroleum LCS Report - OK  
0460: Petroleum Duplicate Report - OK  
0700: PCBs Cover Page - OK  
0710: PCBs Sample Results - OK  
0720: PCBs Method Blank Report - OK  
0730: PCBs LCS Report - OK  
0900: Pesticides Cover Page - OK  
0910: Pesticides Sample Results - OK  
0920: Pesticides Method Blank Report - OK  
0930: Pesticides LCS Report - OK  
1005: Metals Sample Results - OK  
1010: Metals Method Blank Report - OK  
1020: Metals LCS Report - OK  
1040: Metals Matrix Spike Report - OK  
1050: Metals Duplicate Report - OK  
1180: Inorganics Cover Page - OK  
1190: Ignitability Results - OK  
1200: Wet Chemistry Sample Results - OK  
1210: Wet Chemistry Method Blank Report - OK  
1220: Wet Chemistry LCS Report - OK  
1240: Wet Chemistry Matrix Spike Report - OK  
1250: Wet Chemistry Duplicate Report - OK  
5100: Sample Receipt & Container Information Report - OK  
5200: Glossary - OK  
5400: References - OK  
-----



## ANALYTICAL REPORT

Lab Number:	L2434687
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Nicholas Palumbo
Phone:	(212) 479-5435
Project Name:	145-165 WOLCOTT STREET
Project Number:	170562203
Report Date:	06/30/24

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).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)





Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2434687

Report Date: 06/30/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2434687-01	WC12E_GRAB_0-2	SOIL	145-165 WOLCOTT STREET	06/19/24 11:10	06/19/24
L2434687-02	WC12A_1-2	SOIL	145-165 WOLCOTT STREET	06/19/24 11:15	06/19/24
L2434687-03	WC12B_0-1	SOIL	145-165 WOLCOTT STREET	06/19/24 11:20	06/19/24
L2434687-04	WC12C_3-4	SOIL	145-165 WOLCOTT STREET	06/19/24 11:25	06/19/24
L2434687-05	WC12D_2-3	SOIL	145-165 WOLCOTT STREET	06/19/24 11:30	06/19/24
L2434687-06	WC12E_2-3	SOIL	145-165 WOLCOTT STREET	06/19/24 11:35	06/19/24
L2434687-07	WC12_COMP_0-4	SOIL	145-165 WOLCOTT STREET	06/19/24 11:40	06/19/24
L2434687-08	WC12C_GRAB_5-7	SOIL	145-165 WOLCOTT STREET	06/19/24 12:00	06/19/24
L2434687-09	WC12A_6-7	SOIL	145-165 WOLCOTT STREET	06/19/24 12:05	06/19/24
L2434687-10	WC12B_7-8	SOIL	145-165 WOLCOTT STREET	06/19/24 12:10	06/19/24
L2434687-11	WC12C_4-5	SOIL	145-165 WOLCOTT STREET	06/19/24 12:15	06/19/24
L2434687-12	WC12D_5-6	SOIL	145-165 WOLCOTT STREET	06/19/24 12:20	06/19/24
L2434687-13	WC12E_8-9	SOIL	145-165 WOLCOTT STREET	06/19/24 12:25	06/19/24
L2434687-14	WC12_COMP_4-9	SOIL	145-165 WOLCOTT STREET	06/19/24 12:30	06/19/24
L2434687-15	WC07E_GRAB_0-2	SOIL	145-165 WOLCOTT STREET	06/19/24 14:30	06/19/24
L2434687-16	WC07A_1-2	SOIL	145-165 WOLCOTT STREET	06/19/24 14:35	06/19/24
L2434687-17	WC07B_2-3	SOIL	145-165 WOLCOTT STREET	06/19/24 14:40	06/19/24
L2434687-18	WC07C_0-1	SOIL	145-165 WOLCOTT STREET	06/19/24 14:45	06/19/24
L2434687-19	WC07D_1-2	SOIL	145-165 WOLCOTT STREET	06/19/24 14:50	06/19/24
L2434687-20	WC07E_3-4	SOIL	145-165 WOLCOTT STREET	06/19/24 14:55	06/19/24
L2434687-21	WC07_COMP_0-4	SOIL	145-165 WOLCOTT STREET	06/19/24 15:00	06/19/24
L2434687-22	WC07E_GRAB_6-8	SOIL	145-165 WOLCOTT STREET	06/19/24 15:30	06/19/24
L2434687-23	WC07B_5-6	SOIL	145-165 WOLCOTT STREET	06/19/24 15:35	06/19/24
L2434687-24	WC07C_6-7	SOIL	145-165 WOLCOTT STREET	06/19/24 15:40	06/19/24

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2434687-25	WC07D_8-9	SOIL	145-165 WOLCOTT STREET	06/19/24 15:42	06/19/24
L2434687-26	WC07E_7-8	SOIL	145-165 WOLCOTT STREET	06/19/24 15:44	06/19/24
L2434687-27	WC07D_4-5	SOIL	145-165 WOLCOTT STREET	06/19/24 15:45	06/19/24
L2434687-28	WC07_COMP_4-9	SOIL	145-165 WOLCOTT STREET	06/19/24 15:46	06/19/24
L2434687-29	WC07B_GRAB_11-13	SOIL	145-165 WOLCOTT STREET	06/19/24 16:10	06/19/24
L2434687-30	WC07B_10-11	SOIL	145-165 WOLCOTT STREET	06/19/24 16:11	06/19/24
L2434687-31	WC07C_9-10	SOIL	145-165 WOLCOTT STREET	06/19/24 16:17	06/19/24
L2434687-32	WC12A_10-11	SOIL	145-165 WOLCOTT STREET	06/19/24 16:18	06/19/24
L2434687-33	WC12B_12-13	SOIL	145-165 WOLCOTT STREET	06/19/24 16:19	06/19/24
L2434687-34	WC12B_11-12	SOIL	145-165 WOLCOTT STREET	06/19/24 16:20	06/19/24
L2434687-35	WC19_COMP_9-13	SOIL	145-165 WOLCOTT STREET	06/19/24 16:25	06/19/24

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

### 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.

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**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

### Case Narrative (continued)

#### Report Submission

June 30, 2024: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Sample Receipt

L2434687-20: The collection date and time on the chain of custody was 19-JUN-24 14:55; however, the collection date/time on the container label was 19-JUN-24 15:55. At the client's request, the collection date/time is reported as 19-JUN-24 14:55.

#### Volatile Organics

L2434687-08: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (196%); 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.

L2434687-22: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (41%) and the surrogate recovery for 4-bromofluorobenzene (152%) were outside the acceptance criteria; however, re-analysis achieved the following results: 1,4-dichlorobenzene-d4 (36%) and 4-bromofluorobenzene (153%). The results of both analyses are reported; however, since the IS response was below method criteria, all associated compounds and surrogate recoveries are considered to have a potentially high bias.

L2434687-29: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (166%); 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.

#### Semivolatile Organics

L2434687-21D: The sample has elevated detection limits due to the dilution required by the sample matrix.

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**Lab Number:** L2434687  
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### Case Narrative (continued)

#### NJ EPH (Total)

L2434687-08D: The sample an elevated detection limit due to the dilution required by matrix interferences encountered during the concentration of the sample.

L2434687-08D: The surrogate recoveries are below the acceptance criteria for chloro-octadecane (0%) and o-terphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

WG1939381-2/-3: One or more compounds failed to meet the DKQP recovery and/or RPD limits. Please refer to the QC section of the report for specific details.

WG1939381: An MS was not performed because the dilution required by the native sample would have caused the spike compounds to be diluted below the range of calibration.

WG1940109: An MS was not analyzed because the dilution required by the elevated concentrations of non-target compounds present in the native sample would have caused the spike compounds to be diluted below the range of calibration.

#### Pesticides

L2434687-14: The internal standard (IS) response for 1-bromo-2-nitrobenzene (561%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. Since the IS response was above method criteria, all associated compounds reported from this column are considered to have a potentially low bias. The surrogate recovery is outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (5%) due to interference with the Internal Standard.

L2434687-21: The internal standard (IS) response for 1-bromo-2-nitrobenzene (200%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. Since the IS response was above method criteria, all associated compounds reported from this column are considered to have a potentially low bias. The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (23%) and decachlorobiphenyl (19%) due to interference with the Internal Standard.

L2434687-28: The internal standard (IS) response for 1-bromo-2-nitrobenzene (467%) was above the

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### Case Narrative (continued)

acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. Since the IS response was above method criteria, all associated compounds reported from this column are considered to have a potentially low bias. The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (7%) and decachlorobiphenyl (8%) due to interference with the Internal Standard.

L2434687-35: The internal standard (IS) response for 1-bromo-2-nitrobenzene (1092%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. Since the IS response was above method criteria, all associated compounds reported from this column are considered to have a potentially low bias. The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (3%) and decachlorobiphenyl (15%) due to interference with the Internal Standard.

#### Total Metals

L2434687-07, -14, -21, -28 and -35: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

The WG1939050-1 Method Blank, associated with L2434687-07, -14, -21, -28, and -35, 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".

#### TCLP Metals

The WG1939426 CCV recovery, associated with WG1939133-1, was above the acceptance criteria for silver. Any associated samples with positive detections were re-analyzed under a passing CCV. The samples that were non-detect for this element are reporting results from the original analyses.

#### Hexavalent Chromium

The WG1939399-4 Insoluble MS recovery for chromium, hexavalent (56%), performed on L2434687-07, is

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**Case Narrative (continued)**

below the acceptance criteria. The Soluble MS recovery for chromium, hexavalent (21%) was also below criteria. This has been attributed to matrix interference. A post-spike was performed with an acceptable recovery of 107%.

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

Title: Technical Director/Representative

Date: 06/30/24

# ORGANICS



# VOLATILES

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-01  
 Client ID: WC12E\_GRAB\_0-2  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 11:10  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/25/24 10:16  
 Analyst: AJK  
 Percent Solids: 66%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	10	4.6	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.29	1
Chloroform	1.7	J	ug/kg	3.0	0.28	1
Carbon tetrachloride	ND		ug/kg	2.0	0.46	1
1,2-Dichloropropane	ND		ug/kg	2.0	0.25	1
Dibromochloromethane	ND		ug/kg	2.0	0.28	1
1,1,2-Trichloroethane	ND		ug/kg	2.0	0.53	1
Tetrachloroethene	5.1		ug/kg	1.0	0.39	1
Chlorobenzene	ND		ug/kg	1.0	0.25	1
Trichlorofluoromethane	ND		ug/kg	8.0	1.4	1
1,2-Dichloroethane	ND		ug/kg	2.0	0.51	1
1,1,1-Trichloroethane	ND		ug/kg	1.0	0.33	1
Bromodichloromethane	ND		ug/kg	1.0	0.22	1
trans-1,3-Dichloropropene	ND		ug/kg	2.0	0.55	1
cis-1,3-Dichloropropene	ND		ug/kg	1.0	0.32	1
1,3-Dichloropropene, Total	ND		ug/kg	1.0	0.32	1
1,1-Dichloropropene	ND		ug/kg	1.0	0.32	1
Bromoform	ND		ug/kg	8.0	0.49	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.0	0.33	1
Benzene	ND		ug/kg	1.0	0.33	1
Toluene	ND		ug/kg	2.0	1.1	1
Ethylbenzene	ND		ug/kg	2.0	0.28	1
Chloromethane	ND		ug/kg	8.0	1.9	1
Bromomethane	ND		ug/kg	4.0	1.2	1
Vinyl chloride	ND		ug/kg	2.0	0.67	1
Chloroethane	ND		ug/kg	4.0	0.90	1
1,1-Dichloroethene	ND		ug/kg	2.0	0.48	1
trans-1,2-Dichloroethene	ND		ug/kg	3.0	0.27	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434687**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2434687-01  
 Client ID: WC12E\_GRAB\_0-2  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 11:10  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	0.61	J	ug/kg	1.0	0.27	1
1,2-Dichlorobenzene	ND		ug/kg	4.0	0.29	1
1,3-Dichlorobenzene	ND		ug/kg	4.0	0.30	1
1,4-Dichlorobenzene	ND		ug/kg	4.0	0.34	1
Methyl tert butyl ether	ND		ug/kg	4.0	0.40	1
p/m-Xylene	ND		ug/kg	4.0	1.1	1
o-Xylene	ND		ug/kg	2.0	0.58	1
Xylenes, Total	ND		ug/kg	2.0	0.58	1
cis-1,2-Dichloroethene	ND		ug/kg	2.0	0.35	1
Dibromomethane	ND		ug/kg	4.0	0.48	1
Styrene	ND		ug/kg	2.0	0.39	1
Dichlorodifluoromethane	ND		ug/kg	20	1.8	1
Acetone	220		ug/kg	20	9.6	1
Carbon disulfide	ND		ug/kg	20	9.1	1
2-Butanone	42		ug/kg	20	4.4	1
Vinyl acetate	ND		ug/kg	20	4.3	1
4-Methyl-2-pentanone	ND		ug/kg	20	2.6	1
1,2,3-Trichloropropane	ND		ug/kg	4.0	0.25	1
2-Hexanone	ND		ug/kg	20	2.4	1
Bromochloromethane	ND		ug/kg	4.0	0.41	1
2,2-Dichloropropane	ND		ug/kg	4.0	0.40	1
1,2-Dibromoethane	ND		ug/kg	2.0	0.56	1
1,3-Dichloropropane	ND		ug/kg	4.0	0.33	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.0	0.26	1
Bromobenzene	ND		ug/kg	4.0	0.29	1
n-Butylbenzene	ND		ug/kg	2.0	0.33	1
sec-Butylbenzene	ND		ug/kg	2.0	0.29	1
tert-Butylbenzene	ND		ug/kg	4.0	0.24	1
o-Chlorotoluene	ND		ug/kg	4.0	0.38	1
p-Chlorotoluene	ND		ug/kg	4.0	0.22	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	6.0	2.0	1
Hexachlorobutadiene	ND		ug/kg	8.0	0.34	1
Isopropylbenzene	ND		ug/kg	2.0	0.22	1
p-Isopropyltoluene	ND		ug/kg	2.0	0.22	1
Naphthalene	1.5	J	ug/kg	8.0	1.3	1
Acrylonitrile	ND		ug/kg	8.0	2.3	1
Tert-Butyl Alcohol	ND		ug/kg	40	10.	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-01  
 Client ID: WC12E\_GRAB\_0-2  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 11:10  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	2.0	0.34	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.0	0.64	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.0	0.54	1
1,3,5-Trimethylbenzene	0.94	J	ug/kg	4.0	0.39	1
1,2,4-Trimethylbenzene	0.74	J	ug/kg	4.0	0.67	1
Methyl Acetate	ND		ug/kg	8.0	1.9	1
Acrolein	ND		ug/kg	50	11.	1
Cyclohexane	ND		ug/kg	20	1.1	1
1,4-Dioxane	ND		ug/kg	160	70.	1
Freon-113	ND		ug/kg	8.0	1.4	1
p-Diethylbenzene	1.3	J	ug/kg	4.0	0.35	1
p-Ethyltoluene	0.81	J	ug/kg	4.0	0.77	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	4.0	0.38	1
Ethyl ether	ND		ug/kg	4.0	0.68	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	10	2.8	1
Methyl cyclohexane	3.0	J	ug/kg	8.0	1.2	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	102		70-130

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**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-08  
 Client ID: WC12C\_GRAB\_5-7  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 12:00  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/24/24 13:58  
 Analyst: RAW  
 Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	390	180	1
1,1-Dichloroethane	ND		ug/kg	78	11.	1
Chloroform	ND		ug/kg	120	11.	1
Carbon tetrachloride	ND		ug/kg	78	18.	1
1,2-Dichloropropane	ND		ug/kg	78	9.7	1
Dibromochloromethane	ND		ug/kg	78	11.	1
1,1,2-Trichloroethane	ND		ug/kg	78	21.	1
Tetrachloroethene	ND		ug/kg	39	15.	1
Chlorobenzene	ND		ug/kg	39	9.9	1
Trichlorofluoromethane	ND		ug/kg	310	54.	1
1,2-Dichloroethane	ND		ug/kg	78	20.	1
1,1,1-Trichloroethane	ND		ug/kg	39	13.	1
Bromodichloromethane	ND		ug/kg	39	8.5	1
trans-1,3-Dichloropropene	ND		ug/kg	78	21.	1
cis-1,3-Dichloropropene	ND		ug/kg	39	12.	1
1,3-Dichloropropene, Total	ND		ug/kg	39	12.	1
1,1-Dichloropropene	ND		ug/kg	39	12.	1
Bromoform	ND		ug/kg	310	19.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	39	13.	1
Benzene	ND		ug/kg	39	13.	1
Toluene	67	J	ug/kg	78	42.	1
Ethylbenzene	45	J	ug/kg	78	11.	1
Chloromethane	ND		ug/kg	310	73.	1
Bromomethane	ND		ug/kg	160	45.	1
Vinyl chloride	ND		ug/kg	78	26.	1
Chloroethane	ND		ug/kg	160	35.	1
1,1-Dichloroethene	ND		ug/kg	78	18.	1
trans-1,2-Dichloroethene	ND		ug/kg	120	11.	1

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

## SAMPLE RESULTS

Lab ID: L2434687-08  
 Client ID: WC12C\_GRAB\_5-7  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 12:00  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	39	11.	1
1,2-Dichlorobenzene	ND		ug/kg	160	11.	1
1,3-Dichlorobenzene	ND		ug/kg	160	12.	1
1,4-Dichlorobenzene	ND		ug/kg	160	13.	1
Methyl tert butyl ether	ND		ug/kg	160	16.	1
p/m-Xylene	1100		ug/kg	160	44.	1
o-Xylene	220		ug/kg	78	23.	1
Xylenes, Total	1300		ug/kg	78	23.	1
cis-1,2-Dichloroethene	ND		ug/kg	78	14.	1
Dibromomethane	ND		ug/kg	160	18.	1
Styrene	16	J	ug/kg	78	15.	1
Dichlorodifluoromethane	ND		ug/kg	780	71.	1
Acetone	ND		ug/kg	780	370	1
Carbon disulfide	ND		ug/kg	780	350	1
2-Butanone	ND		ug/kg	780	170	1
Vinyl acetate	ND		ug/kg	780	170	1
4-Methyl-2-pentanone	ND		ug/kg	780	100	1
1,2,3-Trichloropropane	ND		ug/kg	160	9.9	1
2-Hexanone	ND		ug/kg	780	92.	1
Bromochloromethane	ND		ug/kg	160	16.	1
2,2-Dichloropropane	ND		ug/kg	160	16.	1
1,2-Dibromoethane	ND		ug/kg	78	22.	1
1,3-Dichloropropane	ND		ug/kg	160	13.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	39	10.	1
Bromobenzene	ND		ug/kg	160	11.	1
n-Butylbenzene	920		ug/kg	78	13.	1
sec-Butylbenzene	310		ug/kg	78	11.	1
tert-Butylbenzene	ND		ug/kg	160	9.2	1
o-Chlorotoluene	ND		ug/kg	160	15.	1
p-Chlorotoluene	ND		ug/kg	160	8.4	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	230	78.	1
Hexachlorobutadiene	ND		ug/kg	310	13.	1
Isopropylbenzene	720		ug/kg	78	8.5	1
p-Isopropyltoluene	160		ug/kg	78	8.5	1
Naphthalene	220	J	ug/kg	310	51.	1
Acrylonitrile	ND		ug/kg	310	90.	1
Tert-Butyl Alcohol	ND		ug/kg	1600	400	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-08  
 Client ID: WC12C\_GRAB\_5-7  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 12:00  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
n-Propylbenzene	1600		ug/kg	78	13.	1
1,2,3-Trichlorobenzene	ND		ug/kg	160	25.	1
1,2,4-Trichlorobenzene	ND		ug/kg	160	21.	1
1,3,5-Trimethylbenzene	9500		ug/kg	160	15.	1
1,2,4-Trimethylbenzene	15000		ug/kg	160	26.	1
Methyl Acetate	290	J	ug/kg	310	74.	1
Acrolein	ND		ug/kg	1900	440	1
Cyclohexane	630	J	ug/kg	780	42.	1
1,4-Dioxane	ND		ug/kg	6200	2700	1
Freon-113	ND		ug/kg	310	54.	1
p-Diethylbenzene	17000		ug/kg	160	14.	1
p-Ethyltoluene	1800		ug/kg	160	30.	1
1,2,4,5-Tetramethylbenzene	1400		ug/kg	160	15.	1
Ethyl ether	ND		ug/kg	160	26.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	390	110	1
Methyl cyclohexane	4800		ug/kg	310	47.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	<b>196</b>	Q	70-130
Dibromofluoromethane	93		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-15  
 Client ID: WC07E\_GRAB\_0-2  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 14:30  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/24/24 14:19  
 Analyst: RAW  
 Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	12	5.6	1
1,1-Dichloroethane	ND		ug/kg	2.5	0.36	1
Chloroform	ND		ug/kg	3.7	0.34	1
Carbon tetrachloride	ND		ug/kg	2.5	0.57	1
1,2-Dichloropropane	ND		ug/kg	2.5	0.31	1
Dibromochloromethane	ND		ug/kg	2.5	0.34	1
1,1,2-Trichloroethane	ND		ug/kg	2.5	0.66	1
Tetrachloroethene	0.64	J	ug/kg	1.2	0.48	1
Chlorobenzene	ND		ug/kg	1.2	0.31	1
Trichlorofluoromethane	ND		ug/kg	9.8	1.7	1
1,2-Dichloroethane	ND		ug/kg	2.5	0.63	1
1,1,1-Trichloroethane	ND		ug/kg	1.2	0.41	1
Bromodichloromethane	ND		ug/kg	1.2	0.27	1
trans-1,3-Dichloropropene	ND		ug/kg	2.5	0.67	1
cis-1,3-Dichloropropene	ND		ug/kg	1.2	0.39	1
1,3-Dichloropropene, Total	ND		ug/kg	1.2	0.39	1
1,1-Dichloropropene	ND		ug/kg	1.2	0.39	1
Bromoform	ND		ug/kg	9.8	0.61	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.2	0.41	1
Benzene	ND		ug/kg	1.2	0.41	1
Toluene	ND		ug/kg	2.5	1.3	1
Ethylbenzene	ND		ug/kg	2.5	0.35	1
Chloromethane	ND		ug/kg	9.8	2.3	1
Bromomethane	ND		ug/kg	4.9	1.4	1
Vinyl chloride	ND		ug/kg	2.5	0.82	1
Chloroethane	ND		ug/kg	4.9	1.1	1
1,1-Dichloroethene	ND		ug/kg	2.5	0.59	1
trans-1,2-Dichloroethene	ND		ug/kg	3.7	0.34	1



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434687**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2434687-15  
 Client ID: WC07E\_GRAB\_0-2  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 14:30  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	1.2	0.34	1
1,2-Dichlorobenzene	ND		ug/kg	4.9	0.35	1
1,3-Dichlorobenzene	ND		ug/kg	4.9	0.36	1
1,4-Dichlorobenzene	ND		ug/kg	4.9	0.42	1
Methyl tert butyl ether	ND		ug/kg	4.9	0.50	1
p/m-Xylene	ND		ug/kg	4.9	1.4	1
o-Xylene	ND		ug/kg	2.5	0.72	1
Xylenes, Total	ND		ug/kg	2.5	0.72	1
cis-1,2-Dichloroethene	ND		ug/kg	2.5	0.43	1
Dibromomethane	ND		ug/kg	4.9	0.59	1
Styrene	ND		ug/kg	2.5	0.48	1
Dichlorodifluoromethane	ND		ug/kg	25	2.2	1
Acetone	26		ug/kg	25	12.	1
Carbon disulfide	ND		ug/kg	25	11.	1
2-Butanone	ND		ug/kg	25	5.5	1
Vinyl acetate	ND		ug/kg	25	5.3	1
4-Methyl-2-pentanone	ND		ug/kg	25	3.2	1
1,2,3-Trichloropropane	ND		ug/kg	4.9	0.31	1
2-Hexanone	ND		ug/kg	25	2.9	1
Bromochloromethane	ND		ug/kg	4.9	0.50	1
2,2-Dichloropropane	ND		ug/kg	4.9	0.50	1
1,2-Dibromoethane	ND		ug/kg	2.5	0.69	1
1,3-Dichloropropane	ND		ug/kg	4.9	0.41	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.2	0.32	1
Bromobenzene	ND		ug/kg	4.9	0.36	1
n-Butylbenzene	ND		ug/kg	2.5	0.41	1
sec-Butylbenzene	ND		ug/kg	2.5	0.36	1
tert-Butylbenzene	ND		ug/kg	4.9	0.29	1
o-Chlorotoluene	ND		ug/kg	4.9	0.47	1
p-Chlorotoluene	ND		ug/kg	4.9	0.27	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	7.4	2.4	1
Hexachlorobutadiene	ND		ug/kg	9.8	0.42	1
Isopropylbenzene	ND		ug/kg	2.5	0.27	1
p-Isopropyltoluene	3.4		ug/kg	2.5	0.27	1
Naphthalene	14		ug/kg	9.8	1.6	1
Acrylonitrile	ND		ug/kg	9.8	2.8	1
Tert-Butyl Alcohol	ND		ug/kg	49	13.	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-15  
 Client ID: WC07E\_GRAB\_0-2  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 14:30  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	2.5	0.42	1
1,2,3-Trichlorobenzene	ND		ug/kg	4.9	0.79	1
1,2,4-Trichlorobenzene	ND		ug/kg	4.9	0.67	1
1,3,5-Trimethylbenzene	1.2	J	ug/kg	4.9	0.48	1
1,2,4-Trimethylbenzene	0.97	J	ug/kg	4.9	0.82	1
Methyl Acetate	3.7	J	ug/kg	9.8	2.3	1
Acrolein	ND		ug/kg	62	14.	1
Cyclohexane	ND		ug/kg	25	1.3	1
1,4-Dioxane	ND		ug/kg	200	86.	1
Freon-113	ND		ug/kg	9.8	1.7	1
p-Diethylbenzene	4.0	J	ug/kg	4.9	0.44	1
p-Ethyltoluene	ND		ug/kg	4.9	0.95	1
1,2,4,5-Tetramethylbenzene	1.4	J	ug/kg	4.9	0.47	1
Ethyl ether	ND		ug/kg	4.9	0.84	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	12	3.5	1
Methyl cyclohexane	ND		ug/kg	9.8	1.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	110		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-22  
 Client ID: WC07E\_GRAB\_6-8  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 15:30  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/24/24 14:40  
 Analyst: RAW  
 Percent Solids: 67%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	15	7.0	1
1,1-Dichloroethane	ND		ug/kg	3.0	0.44	1
Chloroform	ND		ug/kg	4.6	0.42	1
Carbon tetrachloride	ND		ug/kg	3.0	0.70	1
1,2-Dichloropropane	ND		ug/kg	3.0	0.38	1
Dibromochloromethane	ND		ug/kg	3.0	0.42	1
1,1,2-Trichloroethane	ND		ug/kg	3.0	0.81	1
Tetrachloroethene	ND		ug/kg	1.5	0.60	1
Chlorobenzene	ND		ug/kg	1.5	0.39	1
Trichlorofluoromethane	ND		ug/kg	12	2.1	1
1,2-Dichloroethane	ND		ug/kg	3.0	0.78	1
1,1,1-Trichloroethane	ND		ug/kg	1.5	0.51	1
Bromodichloromethane	ND		ug/kg	1.5	0.33	1
trans-1,3-Dichloropropene	ND		ug/kg	3.0	0.83	1
cis-1,3-Dichloropropene	ND		ug/kg	1.5	0.48	1
1,3-Dichloropropene, Total	ND		ug/kg	1.5	0.48	1
1,1-Dichloropropene	ND		ug/kg	1.5	0.48	1
Bromoform	ND		ug/kg	12	0.75	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.5	0.50	1
Benzene	ND		ug/kg	1.5	0.50	1
Toluene	ND		ug/kg	3.0	1.6	1
Ethylbenzene	0.51	J	ug/kg	3.0	0.43	1
Chloromethane	ND		ug/kg	12	2.8	1
Bromomethane	ND		ug/kg	6.1	1.8	1
Vinyl chloride	ND		ug/kg	3.0	1.0	1
Chloroethane	ND		ug/kg	6.1	1.4	1
1,1-Dichloroethene	ND		ug/kg	3.0	0.72	1
trans-1,2-Dichloroethene	ND		ug/kg	4.6	0.42	1

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

## SAMPLE RESULTS

Lab ID: L2434687-22  
 Client ID: WC07E\_GRAB\_6-8  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 15:30  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	1.5	0.42	1
1,2-Dichlorobenzene	ND		ug/kg	6.1	0.44	1
1,3-Dichlorobenzene	ND		ug/kg	6.1	0.45	1
1,4-Dichlorobenzene	ND		ug/kg	6.1	0.52	1
Methyl tert butyl ether	ND		ug/kg	6.1	0.61	1
p/m-Xylene	ND		ug/kg	6.1	1.7	1
o-Xylene	ND		ug/kg	3.0	0.88	1
Xylenes, Total	ND		ug/kg	3.0	0.88	1
cis-1,2-Dichloroethene	ND		ug/kg	3.0	0.53	1
Dibromomethane	ND		ug/kg	6.1	0.72	1
Styrene	ND		ug/kg	3.0	0.60	1
Dichlorodifluoromethane	ND		ug/kg	30	2.8	1
Acetone	650		ug/kg	30	15.	1
Carbon disulfide	16	J	ug/kg	30	14.	1
2-Butanone	130		ug/kg	30	6.8	1
Vinyl acetate	ND		ug/kg	30	6.5	1
4-Methyl-2-pentanone	ND		ug/kg	30	3.9	1
1,2,3-Trichloropropane	ND		ug/kg	6.1	0.39	1
2-Hexanone	ND		ug/kg	30	3.6	1
Bromochloromethane	ND		ug/kg	6.1	0.62	1
2,2-Dichloropropane	ND		ug/kg	6.1	0.61	1
1,2-Dibromoethane	ND		ug/kg	3.0	0.85	1
1,3-Dichloropropane	ND		ug/kg	6.1	0.51	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.5	0.40	1
Bromobenzene	ND		ug/kg	6.1	0.44	1
n-Butylbenzene	ND		ug/kg	3.0	0.51	1
sec-Butylbenzene	6.0		ug/kg	3.0	0.44	1
tert-Butylbenzene	2.6	J	ug/kg	6.1	0.36	1
o-Chlorotoluene	ND		ug/kg	6.1	0.58	1
p-Chlorotoluene	ND		ug/kg	6.1	0.33	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	9.1	3.0	1
Hexachlorobutadiene	ND		ug/kg	12	0.51	1
Isopropylbenzene	0.80	J	ug/kg	3.0	0.33	1
p-Isopropyltoluene	15		ug/kg	3.0	0.33	1
Naphthalene	40		ug/kg	12	2.0	1
Acrylonitrile	ND		ug/kg	12	3.5	1
Tert-Butyl Alcohol	ND		ug/kg	61	16.	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-22  
 Client ID: WC07E\_GRAB\_6-8  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 15:30  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	3.0	0.52	1
1,2,3-Trichlorobenzene	ND		ug/kg	6.1	0.98	1
1,2,4-Trichlorobenzene	ND		ug/kg	6.1	0.83	1
1,3,5-Trimethylbenzene	1.5	J	ug/kg	6.1	0.59	1
1,2,4-Trimethylbenzene	2.8	J	ug/kg	6.1	1.0	1
Methyl Acetate	ND		ug/kg	12	2.9	1
Acrolein	ND		ug/kg	76	17.	1
Cyclohexane	ND		ug/kg	30	1.6	1
1,4-Dioxane	ND		ug/kg	240	110	1
Freon-113	ND		ug/kg	12	2.1	1
p-Diethylbenzene	ND		ug/kg	6.1	0.54	1
p-Ethyltoluene	1.6	J	ug/kg	6.1	1.2	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	6.1	0.58	1
Ethyl ether	ND		ug/kg	6.1	1.0	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	15	4.3	1
Methyl cyclohexane	ND		ug/kg	12	1.8	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	<b>152</b>	Q	70-130
Dibromofluoromethane	98		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-22 R  
 Client ID: WC07E\_GRAB\_6-8  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 15:30  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/25/24 10:37  
 Analyst: AJK  
 Percent Solids: 67%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	13	6.2	1
1,1-Dichloroethane	ND		ug/kg	2.7	0.39	1
Chloroform	ND		ug/kg	4.0	0.38	1
Carbon tetrachloride	ND		ug/kg	2.7	0.62	1
1,2-Dichloropropane	ND		ug/kg	2.7	0.34	1
Dibromochloromethane	ND		ug/kg	2.7	0.38	1
1,1,2-Trichloroethane	ND		ug/kg	2.7	0.72	1
Tetrachloroethene	ND		ug/kg	1.3	0.53	1
Chlorobenzene	ND		ug/kg	1.3	0.34	1
Trichlorofluoromethane	ND		ug/kg	11	1.9	1
1,2-Dichloroethane	ND		ug/kg	2.7	0.69	1
1,1,1-Trichloroethane	ND		ug/kg	1.3	0.45	1
Bromodichloromethane	ND		ug/kg	1.3	0.29	1
trans-1,3-Dichloropropene	ND		ug/kg	2.7	0.74	1
cis-1,3-Dichloropropene	ND		ug/kg	1.3	0.42	1
1,3-Dichloropropene, Total	ND		ug/kg	1.3	0.42	1
1,1-Dichloropropene	ND		ug/kg	1.3	0.43	1
Bromoform	ND		ug/kg	11	0.66	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	1.3	0.45	1
Benzene	ND		ug/kg	1.3	0.45	1
Toluene	ND		ug/kg	2.7	1.5	1
Ethylbenzene	0.39	J	ug/kg	2.7	0.38	1
Chloromethane	ND		ug/kg	11	2.5	1
Bromomethane	ND		ug/kg	5.4	1.6	1
Vinyl chloride	ND		ug/kg	2.7	0.90	1
Chloroethane	ND		ug/kg	5.4	1.2	1
1,1-Dichloroethene	ND		ug/kg	2.7	0.64	1
trans-1,2-Dichloroethene	ND		ug/kg	4.0	0.37	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434687**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2434687-22 R  
 Client ID: WC07E\_GRAB\_6-8  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 15:30  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	1.3	0.37	1
1,2-Dichlorobenzene	ND		ug/kg	5.4	0.39	1
1,3-Dichlorobenzene	ND		ug/kg	5.4	0.40	1
1,4-Dichlorobenzene	ND		ug/kg	5.4	0.46	1
Methyl tert butyl ether	ND		ug/kg	5.4	0.54	1
p/m-Xylene	ND		ug/kg	5.4	1.5	1
o-Xylene	ND		ug/kg	2.7	0.78	1
Xylenes, Total	ND		ug/kg	2.7	0.78	1
cis-1,2-Dichloroethene	ND		ug/kg	2.7	0.47	1
Dibromomethane	ND		ug/kg	5.4	0.64	1
Styrene	ND		ug/kg	2.7	0.53	1
Dichlorodifluoromethane	ND		ug/kg	27	2.5	1
Acetone	500		ug/kg	27	13.	1
Carbon disulfide	15	J	ug/kg	27	12.	1
2-Butanone	93		ug/kg	27	6.0	1
Vinyl acetate	ND		ug/kg	27	5.8	1
4-Methyl-2-pentanone	ND		ug/kg	27	3.4	1
1,2,3-Trichloropropane	ND		ug/kg	5.4	0.34	1
2-Hexanone	ND		ug/kg	27	3.2	1
Bromochloromethane	ND		ug/kg	5.4	0.55	1
2,2-Dichloropropane	ND		ug/kg	5.4	0.54	1
1,2-Dibromoethane	ND		ug/kg	2.7	0.75	1
1,3-Dichloropropane	ND		ug/kg	5.4	0.45	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	1.3	0.36	1
Bromobenzene	ND		ug/kg	5.4	0.39	1
n-Butylbenzene	ND		ug/kg	2.7	0.45	1
sec-Butylbenzene	3.5		ug/kg	2.7	0.39	1
tert-Butylbenzene	1.4	J	ug/kg	5.4	0.32	1
o-Chlorotoluene	ND		ug/kg	5.4	0.51	1
p-Chlorotoluene	ND		ug/kg	5.4	0.29	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	8.1	2.7	1
Hexachlorobutadiene	ND		ug/kg	11	0.46	1
Isopropylbenzene	0.61	J	ug/kg	2.7	0.29	1
p-Isopropyltoluene	31		ug/kg	2.7	0.29	1
Naphthalene	79		ug/kg	11	1.8	1
Acrylonitrile	ND		ug/kg	11	3.1	1
Tert-Butyl Alcohol	ND		ug/kg	54	14.	1

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-22 R  
 Client ID: WC07E\_GRAB\_6-8  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 15:30  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	ND		ug/kg	2.7	0.46	1
1,2,3-Trichlorobenzene	ND		ug/kg	5.4	0.87	1
1,2,4-Trichlorobenzene	ND		ug/kg	5.4	0.73	1
1,3,5-Trimethylbenzene	1.0	J	ug/kg	5.4	0.52	1
1,2,4-Trimethylbenzene	2.6	J	ug/kg	5.4	0.90	1
Methyl Acetate	14		ug/kg	11	2.6	1
Acrolein	16	J	ug/kg	67	15.	1
Cyclohexane	ND		ug/kg	27	1.5	1
1,4-Dioxane	ND		ug/kg	220	94.	1
Freon-113	ND		ug/kg	11	1.9	1
p-Diethylbenzene	0.75	J	ug/kg	5.4	0.48	1
p-Ethyltoluene	2.2	J	ug/kg	5.4	1.0	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	5.4	0.51	1
Ethyl ether	ND		ug/kg	5.4	0.92	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	13	3.8	1
Methyl cyclohexane	ND		ug/kg	11	1.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	121		70-130
Toluene-d8	112		70-130
4-Bromofluorobenzene	<b>153</b>	Q	70-130
Dibromofluoromethane	106		70-130



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-29  
 Client ID: WC07B\_GRAB\_11-13  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 16:10  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/24/24 15:00  
 Analyst: RAW  
 Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	380	170	1
1,1-Dichloroethane	ND		ug/kg	76	11.	1
Chloroform	ND		ug/kg	110	10.	1
Carbon tetrachloride	ND		ug/kg	76	17.	1
1,2-Dichloropropane	ND		ug/kg	76	9.4	1
Dibromochloromethane	ND		ug/kg	76	10.	1
1,1,2-Trichloroethane	ND		ug/kg	76	20.	1
Tetrachloroethene	ND		ug/kg	38	15.	1
Chlorobenzene	ND		ug/kg	38	9.6	1
Trichlorofluoromethane	ND		ug/kg	300	52.	1
1,2-Dichloroethane	ND		ug/kg	76	19.	1
1,1,1-Trichloroethane	ND		ug/kg	38	13.	1
Bromodichloromethane	ND		ug/kg	38	8.2	1
trans-1,3-Dichloropropene	ND		ug/kg	76	21.	1
cis-1,3-Dichloropropene	ND		ug/kg	38	12.	1
1,3-Dichloropropene, Total	ND		ug/kg	38	12.	1
1,1-Dichloropropene	ND		ug/kg	38	12.	1
Bromoform	ND		ug/kg	300	19.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	38	12.	1
Benzene	ND		ug/kg	38	12.	1
Toluene	ND		ug/kg	76	41.	1
Ethylbenzene	ND		ug/kg	76	11.	1
Chloromethane	ND		ug/kg	300	70.	1
Bromomethane	ND		ug/kg	150	44.	1
Vinyl chloride	ND		ug/kg	76	25.	1
Chloroethane	ND		ug/kg	150	34.	1
1,1-Dichloroethene	ND		ug/kg	76	18.	1
trans-1,2-Dichloroethene	ND		ug/kg	110	10.	1

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

## SAMPLE RESULTS

Lab ID: L2434687-29  
 Client ID: WC07B\_GRAB\_11-13  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 16:10  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
Trichloroethene	ND		ug/kg	38	10.	1
1,2-Dichlorobenzene	ND		ug/kg	150	11.	1
1,3-Dichlorobenzene	ND		ug/kg	150	11.	1
1,4-Dichlorobenzene	ND		ug/kg	150	13.	1
Methyl tert butyl ether	ND		ug/kg	150	15.	1
p/m-Xylene	ND		ug/kg	150	42.	1
o-Xylene	ND		ug/kg	76	22.	1
Xylenes, Total	ND		ug/kg	76	22.	1
cis-1,2-Dichloroethene	ND		ug/kg	76	13.	1
Dibromomethane	ND		ug/kg	150	18.	1
Styrene	17	J	ug/kg	76	15.	1
Dichlorodifluoromethane	ND		ug/kg	760	69.	1
Acetone	ND		ug/kg	760	360	1
Carbon disulfide	ND		ug/kg	760	340	1
2-Butanone	ND		ug/kg	760	170	1
Vinyl acetate	ND		ug/kg	760	160	1
4-Methyl-2-pentanone	ND		ug/kg	760	97.	1
1,2,3-Trichloropropane	ND		ug/kg	150	9.6	1
2-Hexanone	ND		ug/kg	760	89.	1
Bromochloromethane	ND		ug/kg	150	16.	1
2,2-Dichloropropane	ND		ug/kg	150	15.	1
1,2-Dibromoethane	ND		ug/kg	76	21.	1
1,3-Dichloropropane	ND		ug/kg	150	13.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	38	10.	1
Bromobenzene	ND		ug/kg	150	11.	1
n-Butylbenzene	990		ug/kg	76	13.	1
sec-Butylbenzene	180		ug/kg	76	11.	1
tert-Butylbenzene	ND		ug/kg	150	8.9	1
o-Chlorotoluene	ND		ug/kg	150	14.	1
p-Chlorotoluene	ND		ug/kg	150	8.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	230	76.	1
Hexachlorobutadiene	ND		ug/kg	300	13.	1
Isopropylbenzene	430		ug/kg	76	8.2	1
p-Isopropyltoluene	ND		ug/kg	76	8.2	1
Naphthalene	360		ug/kg	300	49.	1
Acrylonitrile	ND		ug/kg	300	87.	1
Tert-Butyl Alcohol	ND		ug/kg	1500	390	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-29  
 Client ID: WC07B\_GRAB\_11-13  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 16:10  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatiles Organics by EPA 5035 High - Westborough Lab</b>						
n-Propylbenzene	1100		ug/kg	76	13.	1
1,2,3-Trichlorobenzene	ND		ug/kg	150	24.	1
1,2,4-Trichlorobenzene	ND		ug/kg	150	20.	1
1,3,5-Trimethylbenzene	ND		ug/kg	150	15.	1
1,2,4-Trimethylbenzene	ND		ug/kg	150	25.	1
Methyl Acetate	240	J	ug/kg	300	72.	1
Acrolein	ND		ug/kg	1900	430	1
Cyclohexane	720	J	ug/kg	760	41.	1
1,4-Dioxane	ND		ug/kg	6000	2600	1
Freon-113	ND		ug/kg	300	52.	1
p-Diethylbenzene	ND		ug/kg	150	13.	1
p-Ethyltoluene	ND		ug/kg	150	29.	1
1,2,4,5-Tetramethylbenzene	960		ug/kg	150	14.	1
Ethyl ether	ND		ug/kg	150	26.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	380	110	1
Methyl cyclohexane	4400		ug/kg	300	46.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	<b>166</b>	Q	70-130
Dibromofluoromethane	93		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D  
Analytical Date: 06/24/24 08:45  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 08,29 Batch: WG1938509-5					
Methylene chloride	160	J	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
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
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	ND		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

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/24/24 08:45  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 08,29 Batch: WG1938509-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
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.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Dibromomethane	ND		ug/kg	100	12.
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
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6
p-Chlorotoluene	ND		ug/kg	100	5.4

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/24/24 08:45  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 08,29 Batch: WG1938509-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
Tert-Butyl Alcohol	ND		ug/kg	1000	260
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
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.
Acrolein	ND		ug/kg	1200	280
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	19	J	ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.
Methyl cyclohexane	ND		ug/kg	200	30.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/24/24 08:45  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 08,29 Batch: WG1938509-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/24/24 08:45  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 15,22 Batch: WG1938999-5					
Methylene chloride	3.3	J	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
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-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



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D  
Analytical Date: 06/24/24 08:45  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 15,22 Batch: WG1938999-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
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
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Dibromomethane	ND		ug/kg	2.0	0.24
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
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
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
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/24/24 08:45  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 15,22 Batch: WG1938999-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
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
Acrylonitrile	ND		ug/kg	4.0	1.2
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
Acrolein	ND		ug/kg	25	5.6
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	0.38	J	ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Methyl cyclohexane	ND		ug/kg	4.0	0.60

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/24/24 08:45  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 15,22 Batch: WG1938999-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	99		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/25/24 08:09  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,22 Batch: WG1939024-5					
Methylene chloride	2.9	J	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
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-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

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/25/24 08:09  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,22 Batch: WG1939024-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
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
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Dibromomethane	ND		ug/kg	2.0	0.24
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
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
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
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/25/24 08:09  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,22 Batch: WG1939024-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
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
Acrylonitrile	ND		ug/kg	4.0	1.2
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
Acrolein	ND		ug/kg	25	5.6
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Methyl cyclohexane	ND		ug/kg	4.0	0.60

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/25/24 08:09  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01,22 Batch: WG1939024-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	113		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	100		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 08,29 Batch: WG1938509-3 WG1938509-4								
Methylene chloride	84		84		70-130	0		30
1,1-Dichloroethane	88		89		70-130	1		30
Chloroform	87		89		70-130	2		30
Carbon tetrachloride	82		85		70-130	4		30
1,2-Dichloropropane	94		97		70-130	3		30
Dibromochloromethane	83		82		70-130	1		30
1,1,2-Trichloroethane	91		91		70-130	0		30
Tetrachloroethene	90		93		70-130	3		30
Chlorobenzene	89		91		70-130	2		30
Trichlorofluoromethane	93		95		70-139	2		30
1,2-Dichloroethane	91		93		70-130	2		30
1,1,1-Trichloroethane	86		88		70-130	2		30
Bromodichloromethane	83		84		70-130	1		30
trans-1,3-Dichloropropene	91		90		70-130	1		30
cis-1,3-Dichloropropene	88		91		70-130	3		30
1,1-Dichloropropene	90		94		70-130	4		30
Bromoform	76		80		70-130	5		30
1,1,2,2-Tetrachloroethane	88		90		70-130	2		30
Benzene	90		93		70-130	3		30
Toluene	89		91		70-130	2		30
Ethylbenzene	89		92		70-130	3		30
Chloromethane	118		122		52-130	3		30
Bromomethane	103		102		57-147	1		30



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2434687

**Project Number:** 170562203

**Report Date:** 06/30/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 08,29 Batch: WG1938509-3 WG1938509-4								
Vinyl chloride	100		101		67-130	1		30
Chloroethane	95		96		50-151	1		30
1,1-Dichloroethene	84		87		65-135	4		30
trans-1,2-Dichloroethene	86		89		70-130	3		30
Trichloroethene	86		89		70-130	3		30
1,2-Dichlorobenzene	87		90		70-130	3		30
1,3-Dichlorobenzene	87		93		70-130	7		30
1,4-Dichlorobenzene	86		91		70-130	6		30
Methyl tert butyl ether	88		87		66-130	1		30
p/m-Xylene	90		94		70-130	4		30
o-Xylene	89		90		70-130	1		30
cis-1,2-Dichloroethene	82		84		70-130	2		30
Dibromomethane	87		87		70-130	0		30
Styrene	88		89		70-130	1		30
Dichlorodifluoromethane	104		106		30-146	2		30
Acetone	103		102		54-140	1		30
Carbon disulfide	93		95		59-130	2		30
2-Butanone	102		102		70-130	0		30
Vinyl acetate	102		96		70-130	6		30
4-Methyl-2-pentanone	95		92		70-130	3		30
1,2,3-Trichloropropane	92		92		68-130	0		30
2-Hexanone	94		92		70-130	2		30
Bromochloromethane	88		88		70-130	0		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 08,29 Batch: WG1938509-3 WG1938509-4								
2,2-Dichloropropane	87		91		70-130	4		30
1,2-Dibromoethane	90		89		70-130	1		30
1,3-Dichloropropane	93		94		69-130	1		30
1,1,1,2-Tetrachloroethane	83		85		70-130	2		30
Bromobenzene	85		90		70-130	6		30
n-Butylbenzene	91		98		70-130	7		30
sec-Butylbenzene	89		96		70-130	8		30
tert-Butylbenzene	86		92		70-130	7		30
o-Chlorotoluene	102		109		70-130	7		30
p-Chlorotoluene	90		94		70-130	4		30
1,2-Dibromo-3-chloropropane	80		82		68-130	2		30
Hexachlorobutadiene	85		90		67-130	6		30
Isopropylbenzene	88		95		70-130	8		30
p-Isopropyltoluene	87		94		70-130	8		30
Naphthalene	83		85		70-130	2		30
Acrylonitrile	106		103		70-130	3		30
Tert-Butyl Alcohol	95		92		70-130	3		30
n-Propylbenzene	90		97		70-130	7		30
1,2,3-Trichlorobenzene	86		89		70-130	3		30
1,2,4-Trichlorobenzene	86		90		70-130	5		30
1,3,5-Trimethylbenzene	88		95		70-130	8		30
1,2,4-Trimethylbenzene	87		93		70-130	7		30
Methyl Acetate	112		107		51-146	5		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 08,29 Batch: WG1938509-3 WG1938509-4								
Acrolein	113		109		70-130	4		30
Cyclohexane	100		106		59-142	6		30
1,4-Dioxane	100		100		65-136	0		30
Freon-113	91		95		50-139	4		30
p-Diethylbenzene	90		94		70-130	4		30
p-Ethyltoluene	90		95		70-130	5		30
1,2,4,5-Tetramethylbenzene	86		89		70-130	3		30
Ethyl ether	88		86		67-130	2		30
trans-1,4-Dichloro-2-butene	90		95		70-130	5		30
Methyl cyclohexane	87		92		70-130	6		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	104		105		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	102		102		70-130
Dibromofluoromethane	99		100		70-130



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2434687

**Project Number:** 170562203

**Report Date:** 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 15,22 Batch: WG1938999-3 WG1938999-4								
Methylene chloride	84		84		70-130	0		30
1,1-Dichloroethane	88		89		70-130	1		30
Chloroform	87		89		70-130	2		30
Carbon tetrachloride	82		85		70-130	4		30
1,2-Dichloropropane	94		97		70-130	3		30
Dibromochloromethane	83		82		70-130	1		30
1,1,2-Trichloroethane	91		91		70-130	0		30
Tetrachloroethene	90		93		70-130	3		30
Chlorobenzene	89		91		70-130	2		30
Trichlorofluoromethane	93		95		70-139	2		30
1,2-Dichloroethane	91		93		70-130	2		30
1,1,1-Trichloroethane	86		88		70-130	2		30
Bromodichloromethane	83		84		70-130	1		30
trans-1,3-Dichloropropene	91		90		70-130	1		30
cis-1,3-Dichloropropene	88		91		70-130	3		30
1,1-Dichloropropene	90		94		70-130	4		30
Bromoform	76		80		70-130	5		30
1,1,2,2-Tetrachloroethane	88		90		70-130	2		30
Benzene	90		93		70-130	3		30
Toluene	89		91		70-130	2		30
Ethylbenzene	89		92		70-130	3		30
Chloromethane	118		122		52-130	3		30
Bromomethane	103		102		57-147	1		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 15,22 Batch: WG1938999-3 WG1938999-4								
Vinyl chloride	100		101		67-130	1		30
Chloroethane	95		96		50-151	1		30
1,1-Dichloroethene	84		87		65-135	4		30
trans-1,2-Dichloroethene	86		89		70-130	3		30
Trichloroethene	86		89		70-130	3		30
1,2-Dichlorobenzene	87		90		70-130	3		30
1,3-Dichlorobenzene	87		93		70-130	7		30
1,4-Dichlorobenzene	86		91		70-130	6		30
Methyl tert butyl ether	88		87		66-130	1		30
p/m-Xylene	90		94		70-130	4		30
o-Xylene	89		90		70-130	1		30
cis-1,2-Dichloroethene	82		84		70-130	2		30
Dibromomethane	87		87		70-130	0		30
Styrene	88		89		70-130	1		30
Dichlorodifluoromethane	104		106		30-146	2		30
Acetone	103		102		54-140	1		30
Carbon disulfide	93		95		59-130	2		30
2-Butanone	102		102		70-130	0		30
Vinyl acetate	102		96		70-130	6		30
4-Methyl-2-pentanone	95		92		70-130	3		30
1,2,3-Trichloropropane	92		92		68-130	0		30
2-Hexanone	94		92		70-130	2		30
Bromochloromethane	88		88		70-130	0		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 15,22 Batch: WG1938999-3 WG1938999-4								
2,2-Dichloropropane	87		91		70-130	4		30
1,2-Dibromoethane	90		89		70-130	1		30
1,3-Dichloropropane	93		94		69-130	1		30
1,1,1,2-Tetrachloroethane	83		85		70-130	2		30
Bromobenzene	85		90		70-130	6		30
n-Butylbenzene	91		98		70-130	7		30
sec-Butylbenzene	89		96		70-130	8		30
tert-Butylbenzene	86		92		70-130	7		30
o-Chlorotoluene	102		109		70-130	7		30
p-Chlorotoluene	90		94		70-130	4		30
1,2-Dibromo-3-chloropropane	80		82		68-130	2		30
Hexachlorobutadiene	85		90		67-130	6		30
Isopropylbenzene	88		95		70-130	8		30
p-Isopropyltoluene	87		94		70-130	8		30
Naphthalene	83		85		70-130	2		30
Acrylonitrile	106		103		70-130	3		30
Tert-Butyl Alcohol	95		92		70-130	3		30
n-Propylbenzene	90		97		70-130	7		30
1,2,3-Trichlorobenzene	86		89		70-130	3		30
1,2,4-Trichlorobenzene	86		90		70-130	5		30
1,3,5-Trimethylbenzene	88		95		70-130	8		30
1,2,4-Trimethylbenzene	87		93		70-130	7		30
Methyl Acetate	112		107		51-146	5		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 15,22 Batch: WG1938999-3 WG1938999-4								
Acrolein	113		109		70-130	4		30
Cyclohexane	100		106		59-142	6		30
1,4-Dioxane	100		100		65-136	0		30
Freon-113	91		95		50-139	4		30
p-Diethylbenzene	90		94		70-130	4		30
p-Ethyltoluene	90		95		70-130	5		30
1,2,4,5-Tetramethylbenzene	86		89		70-130	3		30
Ethyl ether	88		86		67-130	2		30
trans-1,4-Dichloro-2-butene	90		95		70-130	5		30
Methyl cyclohexane	87		92		70-130	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	104		105		70-130
Toluene-d8	102		102		70-130
4-Bromofluorobenzene	102		102		70-130
Dibromofluoromethane	99		100		70-130



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,22 Batch: WG1939024-3 WG1939024-4								
Methylene chloride	90		92		70-130	2		30
1,1-Dichloroethane	100		100		70-130	0		30
Chloroform	96		98		70-130	2		30
Carbon tetrachloride	93		92		70-130	1		30
1,2-Dichloropropane	102		104		70-130	2		30
Dibromochloromethane	82		84		70-130	2		30
1,1,2-Trichloroethane	91		94		70-130	3		30
Tetrachloroethene	96		95		70-130	1		30
Chlorobenzene	93		94		70-130	1		30
Trichlorofluoromethane	110		106		70-139	4		30
1,2-Dichloroethane	98		102		70-130	4		30
1,1,1-Trichloroethane	97		97		70-130	0		30
Bromodichloromethane	88		90		70-130	2		30
trans-1,3-Dichloropropene	90		92		70-130	2		30
cis-1,3-Dichloropropene	93		96		70-130	3		30
1,1-Dichloropropene	101		103		70-130	2		30
Bromoform	73		79		70-130	8		30
1,1,2,2-Tetrachloroethane	87		93		70-130	7		30
Benzene	99		98		70-130	1		30
Toluene	97		97		70-130	0		30
Ethylbenzene	98		98		70-130	0		30
Chloromethane	148	Q	142	Q	52-130	4		30
Bromomethane	124		119		57-147	4		30



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,22 Batch: WG1939024-3 WG1939024-4								
Vinyl chloride	98		115		67-130	16		30
Chloroethane	116		113		50-151	3		30
1,1-Dichloroethene	99		94		65-135	5		30
trans-1,2-Dichloroethene	95		96		70-130	1		30
Trichloroethene	96		98		70-130	2		30
1,2-Dichlorobenzene	91		95		70-130	4		30
1,3-Dichlorobenzene	93		96		70-130	3		30
1,4-Dichlorobenzene	92		94		70-130	2		30
Methyl tert butyl ether	88		92		66-130	4		30
p/m-Xylene	98		97		70-130	1		30
o-Xylene	94		94		70-130	0		30
cis-1,2-Dichloroethene	86		86		70-130	0		30
Dibromomethane	88		92		70-130	4		30
Styrene	91		92		70-130	1		30
Dichlorodifluoromethane	122		118		30-146	3		30
Acetone	104		118		54-140	13		30
Carbon disulfide	109		106		59-130	3		30
2-Butanone	102		113		70-130	10		30
Vinyl acetate	107		110		70-130	3		30
4-Methyl-2-pentanone	87		93		70-130	7		30
1,2,3-Trichloropropane	90		97		68-130	7		30
2-Hexanone	87		96		70-130	10		30
Bromochloromethane	87		91		70-130	4		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,22 Batch: WG1939024-3 WG1939024-4								
2,2-Dichloropropane	100		100		70-130	0		30
1,2-Dibromoethane	86		92		70-130	7		30
1,3-Dichloropropane	93		97		69-130	4		30
1,1,1,2-Tetrachloroethane	86		87		70-130	1		30
Bromobenzene	89		92		70-130	3		30
n-Butylbenzene	105		105		70-130	0		30
sec-Butylbenzene	101		102		70-130	1		30
tert-Butylbenzene	96		95		70-130	1		30
o-Chlorotoluene	113		116		70-130	3		30
p-Chlorotoluene	98		99		70-130	1		30
1,2-Dibromo-3-chloropropane	71		79		68-130	11		30
Hexachlorobutadiene	91		89		67-130	2		30
Isopropylbenzene	100		99		70-130	1		30
p-Isopropyltoluene	98		98		70-130	0		30
Naphthalene	81		87		70-130	7		30
Acrylonitrile	109		115		70-130	5		30
Tert-Butyl Alcohol	90		100		70-130	11		30
n-Propylbenzene	102		103		70-130	1		30
1,2,3-Trichlorobenzene	88		90		70-130	2		30
1,2,4-Trichlorobenzene	89		92		70-130	3		30
1,3,5-Trimethylbenzene	98		99		70-130	1		30
1,2,4-Trimethylbenzene	97		97		70-130	0		30
Methyl Acetate	117		122		51-146	4		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01,22 Batch: WG1939024-3 WG1939024-4								
Acrolein	117		122		70-130	4		30
Cyclohexane	115		115		59-142	0		30
1,4-Dioxane	93		100		65-136	7		30
Freon-113	107		104		50-139	3		30
p-Diethylbenzene	100		99		70-130	1		30
p-Ethyltoluene	100		100		70-130	0		30
1,2,4,5-Tetramethylbenzene	91		92		70-130	1		30
Ethyl ether	91		94		67-130	3		30
trans-1,4-Dichloro-2-butene	91		100		70-130	9		30
Methyl cyclohexane	98		98		70-130	0		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	108		109		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	102		103		70-130
Dibromofluoromethane	100		101		70-130



# SEMIVOLATILES

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-07 D2  
 Client ID: WC12\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 11:40  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/27/24 12:35  
 Analyst: JG  
 Percent Solids: 87%

Extraction Method: EPA 3546  
 Extraction Date: 06/26/24 11:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	33000		ug/kg	2800	540	25

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-07 D  
 Client ID: WC12\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 11:40  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/27/24 07:16  
 Analyst: LJG  
 Percent Solids: 87%

Extraction Method: EPA 3546  
 Extraction Date: 06/26/24 11:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	2900		ug/kg	760	98.	5
Benzidine	ND		ug/kg	3100	1000	5
1,2,4-Trichlorobenzene	ND		ug/kg	940	110	5
Hexachlorobenzene	ND		ug/kg	570	100	5
Bis(2-chloroethyl)ether	ND		ug/kg	850	130	5
2-Chloronaphthalene	ND		ug/kg	940	94.	5
1,2-Dichlorobenzene	ND		ug/kg	940	170	5
1,3-Dichlorobenzene	ND		ug/kg	940	160	5
1,4-Dichlorobenzene	ND		ug/kg	940	160	5
3,3'-Dichlorobenzidine	ND		ug/kg	940	250	5
2,4-Dinitrotoluene	ND		ug/kg	940	190	5
2,6-Dinitrotoluene	ND		ug/kg	940	160	5
Azobenzene	ND		ug/kg	940	91.	5
Fluoranthene	43000	E	ug/kg	570	110	5
4-Chlorophenyl phenyl ether	ND		ug/kg	940	100	5
4-Bromophenyl phenyl ether	ND		ug/kg	940	140	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	160	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	95.	5
Hexachlorobutadiene	ND		ug/kg	940	140	5
Hexachlorocyclopentadiene	ND		ug/kg	2700	860	5
Hexachloroethane	ND		ug/kg	760	150	5
Isophorone	ND		ug/kg	850	120	5
Naphthalene	1800		ug/kg	940	120	5
Nitrobenzene	ND		ug/kg	850	140	5
NDPA/DPA	ND		ug/kg	760	110	5
n-Nitrosodi-n-propylamine	ND		ug/kg	940	140	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	940	330	5
Butyl benzyl phthalate	ND		ug/kg	940	240	5

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-07 D  
 Client ID: WC12\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 11:40  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Di-n-butylphthalate	ND		ug/kg	940	180	5
Di-n-octylphthalate	ND		ug/kg	940	320	5
Diethyl phthalate	ND		ug/kg	940	88.	5
Dimethyl phthalate	ND		ug/kg	940	200	5
Benzo(a)anthracene	19000		ug/kg	570	110	5
Benzo(a)pyrene	19000		ug/kg	760	230	5
Benzo(b)fluoranthene	22000		ug/kg	570	160	5
Benzo(k)fluoranthene	5700		ug/kg	570	150	5
Chrysene	18000		ug/kg	570	98.	5
Acenaphthylene	680	J	ug/kg	760	140	5
Anthracene	8700		ug/kg	570	180	5
Benzo(ghi)perylene	14000		ug/kg	760	110	5
Fluorene	3200		ug/kg	940	92.	5
Phenanthrene	30000		ug/kg	570	110	5
Dibenzo(a,h)anthracene	3400		ug/kg	570	110	5
Indeno(1,2,3-cd)pyrene	9600		ug/kg	760	130	5
Pyrene	36000		ug/kg	570	94.	5
Biphenyl	240	J	ug/kg	2200	120	5
4-Chloroaniline	ND		ug/kg	940	170	5
2-Nitroaniline	ND		ug/kg	940	180	5
3-Nitroaniline	ND		ug/kg	940	180	5
4-Nitroaniline	ND		ug/kg	940	390	5
Dibenzofuran	2600		ug/kg	940	89.	5
2-Methylnaphthalene	650	J	ug/kg	1100	110	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	940	99.	5
Acetophenone	ND		ug/kg	940	120	5
n-Nitrosodimethylamine	ND		ug/kg	1900	180	5
2,4,6-Trichlorophenol	ND		ug/kg	570	180	5
p-Chloro-m-cresol	ND		ug/kg	940	140	5
2-Chlorophenol	ND		ug/kg	940	110	5
2,4-Dichlorophenol	ND		ug/kg	850	150	5
2,4-Dimethylphenol	ND		ug/kg	940	310	5
2-Nitrophenol	ND		ug/kg	2000	360	5
4-Nitrophenol	ND		ug/kg	1300	380	5
2,4-Dinitrophenol	ND		ug/kg	4500	440	5
4,6-Dinitro-o-cresol	ND		ug/kg	2400	450	5
Pentachlorophenol	ND		ug/kg	760	210	5

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-07 D  
 Client ID: WC12\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 11:40  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	ND		ug/kg	940	140	5
2-Methylphenol	ND		ug/kg	940	150	5
3-Methylphenol/4-Methylphenol	180	J	ug/kg	1400	150	5
2,4,5-Trichlorophenol	ND		ug/kg	940	180	5
Benzoic Acid	ND		ug/kg	3100	960	5
Benzyl Alcohol	ND		ug/kg	940	290	5
Carbazole	3200		ug/kg	940	92.	5
Atrazine	ND		ug/kg	760	330	5
Benzaldehyde	ND		ug/kg	1200	260	5
Caprolactam	ND		ug/kg	940	290	5
2,3,4,6-Tetrachlorophenol	ND		ug/kg	940	190	5
1,4-Dioxane	ND		ug/kg	140	43.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	80		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	70		18-120



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-14 D2  
 Client ID: WC12\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 12:30  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/28/24 07:10  
 Analyst: LJG  
 Percent Solids: 89%

Extraction Method: EPA 3546  
 Extraction Date: 06/26/24 11:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Chrysene	100000		ug/kg	5400	940	50

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2434687-14 D  
**Client ID:** WC12\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/19/24 12:30  
**Date Received:** 06/19/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8270E  
**Analytical Date:** 06/27/24 12:58  
**Analyst:** JG  
**Percent Solids:** 89%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/26/24 11:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	700	J	ug/kg	1400	190	10
Benzidine	ND		ug/kg	6000	2000	10
1,2,4-Trichlorobenzene	ND		ug/kg	1800	210	10
Hexachlorobenzene	ND		ug/kg	1100	200	10
Bis(2-chloroethyl)ether	ND		ug/kg	1600	240	10
2-Chloronaphthalene	ND		ug/kg	1800	180	10
1,2-Dichlorobenzene	ND		ug/kg	1800	320	10
1,3-Dichlorobenzene	ND		ug/kg	1800	310	10
1,4-Dichlorobenzene	ND		ug/kg	1800	320	10
3,3'-Dichlorobenzidine	ND		ug/kg	1800	480	10
2,4-Dinitrotoluene	ND		ug/kg	1800	360	10
2,6-Dinitrotoluene	ND		ug/kg	1800	310	10
Azobenzene	ND		ug/kg	1800	170	10
Fluoranthene	7700		ug/kg	1100	210	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1800	190	10
4-Bromophenyl phenyl ether	ND		ug/kg	1800	280	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2200	310	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2000	180	10
Hexachlorobutadiene	ND		ug/kg	1800	260	10
Hexachlorocyclopentadiene	ND		ug/kg	5200	1600	10
Hexachloroethane	ND		ug/kg	1400	290	10
Isophorone	ND		ug/kg	1600	240	10
Naphthalene	3100		ug/kg	1800	220	10
Nitrobenzene	ND		ug/kg	1600	270	10
NDPA/DPA	ND		ug/kg	1400	210	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1800	280	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1800	630	10
Butyl benzyl phthalate	ND		ug/kg	1800	460	10

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

## SAMPLE RESULTS

Lab ID: L2434687-14 D  
 Client ID: WC12\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 12:30  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	1800	340	10
Di-n-octylphthalate	ND		ug/kg	1800	620	10
Diethyl phthalate	ND		ug/kg	1800	170	10
Dimethyl phthalate	ND		ug/kg	1800	380	10
Benzo(a)anthracene	61000		ug/kg	1100	200	10
Benzo(a)pyrene	57000		ug/kg	1400	440	10
Benzo(b)fluoranthene	44000		ug/kg	1100	300	10
Benzo(k)fluoranthene	3400		ug/kg	1100	290	10
Chrysene	99000	E	ug/kg	1100	190	10
Acenaphthylene	ND		ug/kg	1400	280	10
Anthracene	2500		ug/kg	1100	350	10
Benzo(ghi)perylene	42000		ug/kg	1400	210	10
Fluorene	1300	J	ug/kg	1800	180	10
Phenanthrene	14000		ug/kg	1100	220	10
Dibenzo(a,h)anthracene	25000		ug/kg	1100	210	10
Indeno(1,2,3-cd)pyrene	12000		ug/kg	1400	250	10
Pyrene	20000		ug/kg	1100	180	10
Biphenyl	ND		ug/kg	4100	240	10
4-Chloroaniline	ND		ug/kg	1800	330	10
2-Nitroaniline	ND		ug/kg	1800	350	10
3-Nitroaniline	ND		ug/kg	1800	340	10
4-Nitroaniline	ND		ug/kg	1800	750	10
Dibenzofuran	300	J	ug/kg	1800	170	10
2-Methylnaphthalene	6600		ug/kg	2200	220	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1800	190	10
Acetophenone	ND		ug/kg	1800	220	10
n-Nitrosodimethylamine	ND		ug/kg	3600	350	10
2,4,6-Trichlorophenol	ND		ug/kg	1100	340	10
p-Chloro-m-cresol	ND		ug/kg	1800	270	10
2-Chlorophenol	ND		ug/kg	1800	210	10
2,4-Dichlorophenol	ND		ug/kg	1600	290	10
2,4-Dimethylphenol	ND		ug/kg	1800	600	10
2-Nitrophenol	ND		ug/kg	3900	680	10
4-Nitrophenol	ND		ug/kg	2500	740	10
2,4-Dinitrophenol	ND		ug/kg	8700	840	10
4,6-Dinitro-o-cresol	ND		ug/kg	4700	870	10
Pentachlorophenol	ND		ug/kg	1400	400	10

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-14 D  
 Client ID: WC12\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 12:30  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/kg	1800	270	10
2-Methylphenol	ND		ug/kg	1800	280	10
3-Methylphenol/4-Methylphenol	330	J	ug/kg	2600	280	10
2,4,5-Trichlorophenol	ND		ug/kg	1800	350	10
Benzoic Acid	ND		ug/kg	5900	1800	10
Benzyl Alcohol	ND		ug/kg	1800	550	10
Carbazole	ND		ug/kg	1800	180	10
Atrazine	ND		ug/kg	1400	630	10
Benzaldehyde	ND		ug/kg	2400	490	10
Caprolactam	ND		ug/kg	1800	550	10
2,3,4,6-Tetrachlorophenol	ND		ug/kg	1800	370	10
1,4-Dioxane	ND		ug/kg	270	83.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	40		25-120
Phenol-d6	38		10-120
Nitrobenzene-d5	39		23-120
2-Fluorobiphenyl	37		30-120
2,4,6-Tribromophenol	38		10-136
4-Terphenyl-d14	40		18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-21 D  
 Client ID: WC07\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 15:00  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/27/24 07:35  
 Analyst: LJG  
 Percent Solids: 88%

Extraction Method: EPA 3546  
 Extraction Date: 06/26/24 11:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	700	J	ug/kg	740	96.	5
Benzidine	ND		ug/kg	3000	1000	5
1,2,4-Trichlorobenzene	ND		ug/kg	930	110	5
Hexachlorobenzene	ND		ug/kg	560	100	5
Bis(2-chloroethyl)ether	ND		ug/kg	830	120	5
2-Chloronaphthalene	ND		ug/kg	930	92.	5
1,2-Dichlorobenzene	ND		ug/kg	930	170	5
1,3-Dichlorobenzene	ND		ug/kg	930	160	5
1,4-Dichlorobenzene	ND		ug/kg	930	160	5
3,3'-Dichlorobenzidine	ND		ug/kg	930	250	5
2,4-Dinitrotoluene	ND		ug/kg	930	180	5
2,6-Dinitrotoluene	ND		ug/kg	930	160	5
Azobenzene	ND		ug/kg	930	89.	5
Fluoranthene	11000		ug/kg	560	110	5
4-Chlorophenyl phenyl ether	ND		ug/kg	930	99.	5
4-Bromophenyl phenyl ether	ND		ug/kg	930	140	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	160	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	93.	5
Hexachlorobutadiene	ND		ug/kg	930	140	5
Hexachlorocyclopentadiene	ND		ug/kg	2600	840	5
Hexachloroethane	ND		ug/kg	740	150	5
Isophorone	ND		ug/kg	830	120	5
Naphthalene	790	J	ug/kg	930	110	5
Nitrobenzene	ND		ug/kg	830	140	5
NDPA/DPA	ND		ug/kg	740	100	5
n-Nitrosodi-n-propylamine	ND		ug/kg	930	140	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	930	320	5
Butyl benzyl phthalate	ND		ug/kg	930	230	5

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

## SAMPLE RESULTS

Lab ID: L2434687-21 D  
 Client ID: WC07\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 15:00  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	930	180	5
Di-n-octylphthalate	ND		ug/kg	930	320	5
Diethyl phthalate	ND		ug/kg	930	86.	5
Dimethyl phthalate	ND		ug/kg	930	190	5
Benzo(a)anthracene	6600		ug/kg	560	100	5
Benzo(a)pyrene	7600		ug/kg	740	230	5
Benzo(b)fluoranthene	8400		ug/kg	560	160	5
Benzo(k)fluoranthene	2600		ug/kg	560	150	5
Chrysene	7700		ug/kg	560	96.	5
Acenaphthylene	440	J	ug/kg	740	140	5
Anthracene	2000		ug/kg	560	180	5
Benzo(ghi)perylene	6400		ug/kg	740	110	5
Fluorene	780	J	ug/kg	930	90.	5
Phenanthrene	7900		ug/kg	560	110	5
Dibenzo(a,h)anthracene	2300		ug/kg	560	110	5
Indeno(1,2,3-cd)pyrene	3700		ug/kg	740	130	5
Pyrene	10000		ug/kg	560	92.	5
Biphenyl	160	J	ug/kg	2100	120	5
4-Chloroaniline	ND		ug/kg	930	170	5
2-Nitroaniline	ND		ug/kg	930	180	5
3-Nitroaniline	ND		ug/kg	930	170	5
4-Nitroaniline	ND		ug/kg	930	380	5
Dibenzofuran	670	J	ug/kg	930	88.	5
2-Methylnaphthalene	540	J	ug/kg	1100	110	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	930	97.	5
Acetophenone	ND		ug/kg	930	110	5
n-Nitrosodimethylamine	ND		ug/kg	1800	180	5
2,4,6-Trichlorophenol	ND		ug/kg	560	180	5
p-Chloro-m-cresol	ND		ug/kg	930	140	5
2-Chlorophenol	ND		ug/kg	930	110	5
2,4-Dichlorophenol	ND		ug/kg	830	150	5
2,4-Dimethylphenol	ND		ug/kg	930	300	5
2-Nitrophenol	ND		ug/kg	2000	350	5
4-Nitrophenol	ND		ug/kg	1300	380	5
2,4-Dinitrophenol	ND		ug/kg	4400	430	5
4,6-Dinitro-o-cresol	ND		ug/kg	2400	440	5
Pentachlorophenol	ND		ug/kg	740	200	5

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434687**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2434687-21 D  
 Client ID: WC07\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 15:00  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/kg	930	140	5
2-Methylphenol	ND		ug/kg	930	140	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1300	140	5
2,4,5-Trichlorophenol	ND		ug/kg	930	180	5
Benzoic Acid	ND		ug/kg	3000	940	5
Benzyl Alcohol	ND		ug/kg	930	280	5
Carbazole	880	J	ug/kg	930	90.	5
Atrazine	ND		ug/kg	740	320	5
Benzaldehyde	ND		ug/kg	1200	250	5
Caprolactam	ND		ug/kg	930	280	5
2,3,4,6-Tetrachlorophenol	ND		ug/kg	930	190	5
1,4-Dioxane	ND		ug/kg	140	43.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	66		10-136
4-Terphenyl-d14	66		18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-28 D  
 Client ID: WC07\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 15:46  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/27/24 07:54  
 Analyst: JG  
 Percent Solids: 85%

Extraction Method: EPA 3546  
 Extraction Date: 06/26/24 11:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	1100		ug/kg	780	100	5
Benzidine	ND		ug/kg	3200	1000	5
1,2,4-Trichlorobenzene	ND		ug/kg	980	110	5
Hexachlorobenzene	ND		ug/kg	590	110	5
Bis(2-chloroethyl)ether	ND		ug/kg	880	130	5
2-Chloronaphthalene	ND		ug/kg	980	97.	5
1,2-Dichlorobenzene	ND		ug/kg	980	180	5
1,3-Dichlorobenzene	ND		ug/kg	980	170	5
1,4-Dichlorobenzene	ND		ug/kg	980	170	5
3,3'-Dichlorobenzidine	ND		ug/kg	980	260	5
2,4-Dinitrotoluene	ND		ug/kg	980	200	5
2,6-Dinitrotoluene	ND		ug/kg	980	170	5
Azobenzene	ND		ug/kg	980	94.	5
Fluoranthene	7200		ug/kg	590	110	5
4-Chlorophenyl phenyl ether	ND		ug/kg	980	100	5
4-Bromophenyl phenyl ether	ND		ug/kg	980	150	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1200	170	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	98.	5
Hexachlorobutadiene	ND		ug/kg	980	140	5
Hexachlorocyclopentadiene	ND		ug/kg	2800	880	5
Hexachloroethane	ND		ug/kg	780	160	5
Isophorone	ND		ug/kg	880	130	5
Naphthalene	2800		ug/kg	980	120	5
Nitrobenzene	ND		ug/kg	880	140	5
NDPA/DPA	ND		ug/kg	780	110	5
n-Nitrosodi-n-propylamine	ND		ug/kg	980	150	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	980	340	5
Butyl benzyl phthalate	ND		ug/kg	980	250	5



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

## SAMPLE RESULTS

Lab ID: L2434687-28 D  
 Client ID: WC07\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 15:46  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	980	180	5
Di-n-octylphthalate	ND		ug/kg	980	330	5
Diethyl phthalate	ND		ug/kg	980	90.	5
Dimethyl phthalate	ND		ug/kg	980	200	5
Benzo(a)anthracene	11000		ug/kg	590	110	5
Benzo(a)pyrene	18000		ug/kg	780	240	5
Benzo(b)fluoranthene	9000		ug/kg	590	160	5
Benzo(k)fluoranthene	1900		ug/kg	590	160	5
Chrysene	15000		ug/kg	590	100	5
Acenaphthylene	500	J	ug/kg	780	150	5
Anthracene	3000		ug/kg	590	190	5
Benzo(ghi)perylene	22000		ug/kg	780	110	5
Fluorene	1500		ug/kg	980	95.	5
Phenanthrene	10000		ug/kg	590	120	5
Dibenzo(a,h)anthracene	10000		ug/kg	590	110	5
Indeno(1,2,3-cd)pyrene	8500		ug/kg	780	140	5
Pyrene	12000		ug/kg	590	97.	5
Biphenyl	260	J	ug/kg	2200	130	5
4-Chloroaniline	ND		ug/kg	980	180	5
2-Nitroaniline	ND		ug/kg	980	190	5
3-Nitroaniline	ND		ug/kg	980	180	5
4-Nitroaniline	ND		ug/kg	980	400	5
Dibenzofuran	570	J	ug/kg	980	92.	5
2-Methylnaphthalene	3800		ug/kg	1200	120	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	980	100	5
Acetophenone	ND		ug/kg	980	120	5
n-Nitrosodimethylamine	ND		ug/kg	2000	190	5
2,4,6-Trichlorophenol	ND		ug/kg	590	180	5
p-Chloro-m-cresol	ND		ug/kg	980	140	5
2-Chlorophenol	ND		ug/kg	980	120	5
2,4-Dichlorophenol	ND		ug/kg	880	160	5
2,4-Dimethylphenol	ND		ug/kg	980	320	5
2-Nitrophenol	ND		ug/kg	2100	370	5
4-Nitrophenol	ND		ug/kg	1400	400	5
2,4-Dinitrophenol	ND		ug/kg	4700	460	5
4,6-Dinitro-o-cresol	ND		ug/kg	2500	470	5
Pentachlorophenol	ND		ug/kg	780	220	5

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434687**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2434687-28 D  
 Client ID: WC07\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 15:46  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	150	J	ug/kg	980	150	5
2-Methylphenol	ND		ug/kg	980	150	5
3-Methylphenol/4-Methylphenol	410	J	ug/kg	1400	150	5
2,4,5-Trichlorophenol	ND		ug/kg	980	190	5
Benzoic Acid	ND		ug/kg	3200	990	5
Benzyl Alcohol	ND		ug/kg	980	300	5
Carbazole	ND		ug/kg	980	95.	5
Atrazine	ND		ug/kg	780	340	5
Benzaldehyde	ND		ug/kg	1300	260	5
Caprolactam	ND		ug/kg	980	300	5
2,3,4,6-Tetrachlorophenol	ND		ug/kg	980	200	5
1,4-Dioxane	ND		ug/kg	150	45.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	58		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	52		30-120
2,4,6-Tribromophenol	51		10-136
4-Terphenyl-d14	62		18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-35 D  
 Client ID: WC19\_COMP\_9-13  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 16:25  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/28/24 07:34  
 Analyst: LJG  
 Percent Solids: 89%

Extraction Method: EPA 3546  
 Extraction Date: 06/26/24 11:46

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	1600		ug/kg	1500	190	10
Benzidine	ND		ug/kg	6100	2000	10
1,2,4-Trichlorobenzene	ND		ug/kg	1800	210	10
Hexachlorobenzene	ND		ug/kg	1100	200	10
Bis(2-chloroethyl)ether	ND		ug/kg	1600	250	10
2-Chloronaphthalene	ND		ug/kg	1800	180	10
1,2-Dichlorobenzene	ND		ug/kg	1800	330	10
1,3-Dichlorobenzene	ND		ug/kg	1800	320	10
1,4-Dichlorobenzene	ND		ug/kg	1800	320	10
3,3'-Dichlorobenzidine	ND		ug/kg	1800	490	10
2,4-Dinitrotoluene	ND		ug/kg	1800	370	10
2,6-Dinitrotoluene	ND		ug/kg	1800	320	10
Azobenzene	ND		ug/kg	1800	180	10
Fluoranthene	14000		ug/kg	1100	210	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1800	200	10
4-Bromophenyl phenyl ether	ND		ug/kg	1800	280	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2200	310	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2000	180	10
Hexachlorobutadiene	ND		ug/kg	1800	270	10
Hexachlorocyclopentadiene	ND		ug/kg	5200	1700	10
Hexachloroethane	ND		ug/kg	1500	300	10
Isophorone	ND		ug/kg	1600	240	10
Naphthalene	2100		ug/kg	1800	220	10
Nitrobenzene	ND		ug/kg	1600	270	10
NDPA/DPA	ND		ug/kg	1500	210	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1800	280	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1800	640	10
Butyl benzyl phthalate	ND		ug/kg	1800	460	10

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434687**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2434687-35 D  
 Client ID: WC19\_COMP\_9-13  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 16:25  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Di-n-butylphthalate	ND		ug/kg	1800	350	10
Di-n-octylphthalate	ND		ug/kg	1800	620	10
Diethyl phthalate	ND		ug/kg	1800	170	10
Dimethyl phthalate	ND		ug/kg	1800	380	10
Benzo(a)anthracene	50000		ug/kg	1100	210	10
Benzo(a)pyrene	40000		ug/kg	1500	450	10
Benzo(b)fluoranthene	27000		ug/kg	1100	310	10
Benzo(k)fluoranthene	3800		ug/kg	1100	290	10
Chrysene	56000		ug/kg	1100	190	10
Acenaphthylene	380	J	ug/kg	1500	280	10
Anthracene	4400		ug/kg	1100	360	10
Benzo(ghi)perylene	37000		ug/kg	1500	220	10
Fluorene	2200		ug/kg	1800	180	10
Phenanthrene	19000		ug/kg	1100	220	10
Dibenzo(a,h)anthracene	20000		ug/kg	1100	210	10
Indeno(1,2,3-cd)pyrene	8500		ug/kg	1500	260	10
Pyrene	27000		ug/kg	1100	180	10
Biphenyl	ND		ug/kg	4200	240	10
4-Chloroaniline	ND		ug/kg	1800	330	10
2-Nitroaniline	ND		ug/kg	1800	350	10
3-Nitroaniline	ND		ug/kg	1800	350	10
4-Nitroaniline	ND		ug/kg	1800	760	10
Dibenzofuran	770	J	ug/kg	1800	170	10
2-Methylnaphthalene	5700		ug/kg	2200	220	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1800	190	10
Acetophenone	ND		ug/kg	1800	230	10
n-Nitrosodimethylamine	ND		ug/kg	3700	350	10
2,4,6-Trichlorophenol	ND		ug/kg	1100	350	10
p-Chloro-m-cresol	ND		ug/kg	1800	270	10
2-Chlorophenol	ND		ug/kg	1800	220	10
2,4-Dichlorophenol	ND		ug/kg	1600	300	10
2,4-Dimethylphenol	ND		ug/kg	1800	610	10
2-Nitrophenol	ND		ug/kg	4000	690	10
4-Nitrophenol	ND		ug/kg	2600	750	10
2,4-Dinitrophenol	ND		ug/kg	8800	860	10
4,6-Dinitro-o-cresol	ND		ug/kg	4800	880	10
Pentachlorophenol	ND		ug/kg	1500	400	10

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434687**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2434687-35 D  
 Client ID: WC19\_COMP\_9-13  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 16:25  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	ND		ug/kg	1800	280	10
2-Methylphenol	ND		ug/kg	1800	280	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	2600	290	10
2,4,5-Trichlorophenol	ND		ug/kg	1800	350	10
Benzoic Acid	ND		ug/kg	6000	1800	10
Benzyl Alcohol	ND		ug/kg	1800	560	10
Carbazole	800	J	ug/kg	1800	180	10
Atrazine	ND		ug/kg	1500	640	10
Benzaldehyde	ND		ug/kg	2400	500	10
Caprolactam	ND		ug/kg	1800	560	10
2,3,4,6-Tetrachlorophenol	ND		ug/kg	1800	370	10
1,4-Dioxane	ND		ug/kg	280	84.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	53		25-120
Phenol-d6	55		10-120
Nitrobenzene-d5	58		23-120
2-Fluorobiphenyl	61		30-120
2,4,6-Tribromophenol	39		10-136
4-Terphenyl-d14	60		18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/26/24 21:22  
Analyst: LJG

Extraction Method: EPA 3546  
Extraction Date: 06/26/24 11:46

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07,14,21,28,35 Batch: WG1939684-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	540	180
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/26/24 21:22  
Analyst: LJG

Extraction Method: EPA 3546  
Extraction Date: 06/26/24 11:46

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07,14,21,28,35 Batch: WG1939684-1					
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
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.
Biphenyl	ND		ug/kg	380	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
n-Nitrosodimethylamine	ND		ug/kg	330	32.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/26/24 21:22  
Analyst: LJG

Extraction Method: EPA 3546  
Extraction Date: 06/26/24 11:46

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07,14,21,28,35 Batch: WG1939684-1					
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	94		25-120
Phenol-d6	89		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	83		10-136
4-Terphenyl-d14	92		18-120





## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1939684-2 WG1939684-3								
Acenaphthene	77		78		31-137	1		50
Benzidine	45		52		10-66	14		50
1,2,4-Trichlorobenzene	76		78		38-107	3		50
Hexachlorobenzene	82		81		40-140	1		50
Bis(2-chloroethyl)ether	78		78		40-140	0		50
2-Chloronaphthalene	78		79		40-140	1		50
1,2-Dichlorobenzene	71		73		40-140	3		50
1,3-Dichlorobenzene	70		73		40-140	4		50
1,4-Dichlorobenzene	71		74		28-104	4		50
3,3'-Dichlorobenzidine	78		80		40-140	3		50
2,4-Dinitrotoluene	89		90		40-132	1		50
2,6-Dinitrotoluene	90		89		40-140	1		50
Azobenzene	89		90		40-140	1		50
Fluoranthene	85		85		40-140	0		50
4-Chlorophenyl phenyl ether	87		87		40-140	0		50
4-Bromophenyl phenyl ether	88		86		40-140	2		50
Bis(2-chloroisopropyl)ether	76		77		40-140	1		50
Bis(2-chloroethoxy)methane	89		90		40-117	1		50
Hexachlorobutadiene	92		93		40-140	1		50
Hexachlorocyclopentadiene	87		85		40-140	2		50
Hexachloroethane	82		85		40-140	4		50
Isophorone	86		87		40-140	1		50
Naphthalene	76		76		40-140	0		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1939684-2 WG1939684-3								
Nitrobenzene	84		84		40-140	0		50
NDPA/DPA	81		81		36-157	0		50
n-Nitrosodi-n-propylamine	91		92		32-121	1		50
Bis(2-ethylhexyl)phthalate	95		95		40-140	0		50
Butyl benzyl phthalate	99		99		40-140	0		50
Di-n-butylphthalate	94		93		40-140	1		50
Di-n-octylphthalate	99		102		40-140	3		50
Diethyl phthalate	90		90		40-140	0		50
Dimethyl phthalate	86		86		40-140	0		50
Benzo(a)anthracene	86		85		40-140	1		50
Benzo(a)pyrene	81		82		40-140	1		50
Benzo(b)fluoranthene	78		79		40-140	1		50
Benzo(k)fluoranthene	79		83		40-140	5		50
Chrysene	83		85		40-140	2		50
Acenaphthylene	79		79		40-140	0		50
Anthracene	82		82		40-140	0		50
Benzo(ghi)perylene	78		78		40-140	0		50
Fluorene	77		79		40-140	3		50
Phenanthrene	78		78		40-140	0		50
Dibenzo(a,h)anthracene	79		78		40-140	1		50
Indeno(1,2,3-cd)pyrene	79		79		40-140	0		50
Pyrene	85		87		35-142	2		50
Biphenyl	75		74		37-127	1		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1939684-2 WG1939684-3								
4-Chloroaniline	63		68		40-140	8		50
2-Nitroaniline	92		92		47-134	0		50
3-Nitroaniline	67		70		26-129	4		50
4-Nitroaniline	82		90		41-125	9		50
Dibenzofuran	78		77		40-140	1		50
2-Methylnaphthalene	79		80		40-140	1		50
1,2,4,5-Tetrachlorobenzene	86		86		40-117	0		50
Acetophenone	84		86		14-144	2		50
n-Nitrosodimethylamine	88		89		22-100	1		50
2,4,6-Trichlorophenol	92		94		30-130	2		50
p-Chloro-m-cresol	92		93		26-103	1		50
2-Chlorophenol	83		84		25-102	1		50
2,4-Dichlorophenol	82		84		30-130	2		50
2,4-Dimethylphenol	85		87		30-130	2		50
2-Nitrophenol	85		86		30-130	1		50
4-Nitrophenol	99		99		11-114	0		50
2,4-Dinitrophenol	86		88		4-130	2		50
4,6-Dinitro-o-cresol	97		99		10-130	2		50
Pentachlorophenol	86		87		17-109	1		50
Phenol	94	Q	95	Q	26-90	1		50
2-Methylphenol	84		86		30-130	2		50
3-Methylphenol/4-Methylphenol	84		84		30-130	0		50
2,4,5-Trichlorophenol	91		92		30-130	1		50

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1939684-2 WG1939684-3								
Benzoic Acid	68		72		10-110	6		50
Benzyl Alcohol	93		95		40-140	2		50
Carbazole	82		82		54-128	0		50
Atrazine	82		82		40-140	0		50
Benzaldehyde	75		77		40-140	3		50
Caprolactam	94		95		15-130	1		50
2,3,4,6-Tetrachlorophenol	94		96		40-140	2		50
1,4-Dioxane	59		61		40-140	3		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	90		92		25-120
Phenol-d6	87		86		10-120
Nitrobenzene-d5	83		83		23-120
2-Fluorobiphenyl	76		77		30-120
2,4,6-Tribromophenol	84		82		10-136
4-Terphenyl-d14	81		82		18-120



# PETROLEUM HYDROCARBONS

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-01  
 Client ID: WC12E\_GRAB\_0-2  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 11:10  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/27/24 14:10  
 Analyst: SBC  
 Percent Solids: 66%

Extraction Method: EPA 3546  
 Extraction Date: 06/26/24 02:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
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Total EPH	710		mg/kg	35.6	35.6	1
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	79		40-140
o-Terphenyl	76		40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-08 D  
 Client ID: WC12C\_GRAB\_5-7  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 12:00  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/27/24 20:09  
 Analyst: SBC  
 Percent Solids: 83%

Extraction Method: EPA 3546  
 Extraction Date: 06/26/24 02:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	17100		mg/kg	558	558.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-15 D  
 Client ID: WC07E\_GRAB\_0-2  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 14:30  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/29/24 11:32  
 Analyst: LMR  
 Percent Solids: 89%

Extraction Method: EPA 3546  
 Extraction Date: 06/27/24 22:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
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Total EPH	1630		mg/kg	51.1	51.1	2
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	112		40-140
o-Terphenyl	78		40-140



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-22 D  
 Client ID: WC07E\_GRAB\_6-8  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 15:30  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/27/24 18:17  
 Analyst: LMR  
 Percent Solids: 67%

Extraction Method: EPA 3546  
 Extraction Date: 06/26/24 02:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	9350		mg/kg	343	343.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	76		40-140
o-Terphenyl	89		40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-29 D  
 Client ID: WC07B\_GRAB\_11-13  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 16:10  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/27/24 18:53  
 Analyst: SBC  
 Percent Solids: 85%

Extraction Method: EPA 3546  
 Extraction Date: 06/26/24 02:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
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NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
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Total EPH	8860		mg/kg	278	278.	10
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Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	106		40-140
o-Terphenyl	85		40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 103,NJDEP EPH  
Analytical Date: 06/27/24 16:33  
Analyst: SBC

Extraction Method: EPA 3546  
Extraction Date: 06/26/24 02:55

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 01,08,22,29 Batch: WG1939381-1					
Total EPH	ND		mg/kg	22.5	22.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	70		40-140
o-Terphenyl	68		40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 103,NJDEP EPH  
Analytical Date: 06/28/24 09:39  
Analyst: MTC

Extraction Method: EPA 3546  
Extraction Date: 06/27/24 07:32

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 15 Batch: WG1940109-1					
Total EPH	ND		mg/kg	22.8	22.8

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	79		40-140
o-Terphenyl	81		40-140

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01,08,22,29 Batch: WG1939381-2 WG1939381-3								
Total EPH	63		94		40-140	39	Q	25
Nonane (C9)	55		87		40-140	45	Q	25
Decane (C10)	61		94		40-140	43	Q	25
Dodecane (C12)	58		90		40-140	43	Q	25
Tetradecane (C14)	56		88		40-140	44	Q	25
Hexadecane (C16)	58		89		40-140	42	Q	25
Octadecane (C18)	61		92		40-140	41	Q	25
Eicosane (C20)	59		88		40-140	39	Q	25
Heneicosane (C21)	61		90		40-140	38	Q	25
Docosane (C22)	61		90		40-140	38	Q	25
Tetracosane (C24)	60		88		40-140	38	Q	25
Hexacosane (C26)	59		86		40-140	37	Q	25
Octacosane (C28)	58		85		40-140	38	Q	25
triacontane (C30)	58		84		40-140	37	Q	25
Dotriacontane (C32)	59		86		40-140	37	Q	25
Tetratriacontane (C34)	58		85		40-140	38	Q	25
Hexatriacontane (C36)	60		85		40-140	34	Q	25
Octatriacontane (C38)	58		82		40-140	34	Q	25
Tetracontane (C40)	60		83		40-140	32	Q	25

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01,08,22,29 Batch: WG1939381-2 WG1939381-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Chloro-Octadecane	53		86		40-140
o-Terphenyl	52		84		40-140

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2434687

**Project Number:** 170562203

**Report Date:** 06/30/24

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCSD %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 15 Batch: WG1940109-2 WG1940109-3								
Total EPH	93		94		40-140	1		25
Nonane (C9)	86		86		40-140	0		25
Decane (C10)	92		94		40-140	2		25
Dodecane (C12)	85		88		40-140	3		25
Tetradecane (C14)	83		86		40-140	4		25
Hexadecane (C16)	83		85		40-140	2		25
Octadecane (C18)	81		81		40-140	0		25
Eicosane (C20)	82		82		40-140	0		25
Heneicosane (C21)	84		84		40-140	0		25
Docosane (C22)	84		84		40-140	0		25
Tetracosane (C24)	84		84		40-140	0		25
Hexacosane (C26)	84		83		40-140	1		25
Octacosane (C28)	85		84		40-140	1		25
triacontane (C30)	86		85		40-140	1		25
Dotriacontane (C32)	87		87		40-140	0		25
Tetracontane (C34)	86		86		40-140	0		25
Hexatriacontane (C36)	92		92		40-140	0		25
Octatriacontane (C38)	90		90		40-140	0		25
Tetracontane (C40)	95		96		40-140	1		25

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 15 Batch: WG1940109-2 WG1940109-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
Chloro-Octadecane	80		79		40-140
o-Terphenyl	80		81		40-140



**Lab Duplicate Analysis**  
**Batch Quality Control**

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2434687

**Report Date:** 06/30/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01,08,22,29 QC Batch ID: WG1939381-5 QC Sample: L2434687-29 Client ID: WC07B_GRAB_11-13						
Total EPH	8860	8680	mg/kg	2		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	106		125		40-140
o-Terphenyl	85		91		40-140



### Lab Duplicate Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2434687

**Report Date:** 06/30/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 15 QC Batch ID: WG1940109-5 QC Sample: L2435013-02 Client ID: DUP Sample						
Total EPH	21800	21400	mg/kg	2		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	0	Q	40-140
o-Terphenyl	0	Q	0	Q	40-140

# PCBS

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2434687-07  
**Client ID:** WC12\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/19/24 11:40  
**Date Received:** 06/19/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/26/24 19:49  
**Analyst:** AD  
**Percent Solids:** 87%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/26/24 04:40  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/26/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/26/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	54.4	4.83	1	A
Aroclor 1221	ND		ug/kg	54.4	5.45	1	A
Aroclor 1232	ND		ug/kg	54.4	11.5	1	A
Aroclor 1242	ND		ug/kg	54.4	7.34	1	A
Aroclor 1248	ND		ug/kg	54.4	8.16	1	A
Aroclor 1254	ND		ug/kg	54.4	5.95	1	A
Aroclor 1260	ND		ug/kg	54.4	10.0	1	A
Aroclor 1262	ND		ug/kg	54.4	6.91	1	A
Aroclor 1268	ND		ug/kg	54.4	5.64	1	A
PCBs, Total	ND		ug/kg	54.4	4.83	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	48		30-150	A
2,4,5,6-Tetrachloro-m-xylene	51		30-150	B
Decachlorobiphenyl	55		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2434687-14  
**Client ID:** WC12\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/19/24 12:30  
**Date Received:** 06/19/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/26/24 19:42  
**Analyst:** AD  
**Percent Solids:** 89%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/26/24 04:40  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/26/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/26/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	53.0	4.71	1	A
Aroclor 1221	ND		ug/kg	53.0	5.31	1	A
Aroclor 1232	ND		ug/kg	53.0	11.2	1	A
Aroclor 1242	ND		ug/kg	53.0	7.15	1	A
Aroclor 1248	ND		ug/kg	53.0	7.95	1	A
Aroclor 1254	ND		ug/kg	53.0	5.80	1	A
Aroclor 1260	ND		ug/kg	53.0	9.80	1	A
Aroclor 1262	ND		ug/kg	53.0	6.73	1	A
Aroclor 1268	ND		ug/kg	53.0	5.49	1	A
PCBs, Total	ND		ug/kg	53.0	4.71	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	42		30-150	A
Decachlorobiphenyl	38		30-150	A
2,4,5,6-Tetrachloro-m-xylene	41		30-150	B
Decachlorobiphenyl	56		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-21  
 Client ID: WC07\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 15:00  
 Date Received: 06/19/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 06/26/24 19:34  
 Analyst: AD  
 Percent Solids: 88%

Extraction Method: EPA 3546  
 Extraction Date: 06/26/24 04:40  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 06/26/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/26/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
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	ND		ug/kg	55.2	6.04	1	A
Aroclor 1260	11.3	J	ug/kg	55.2	10.2	1	B
Aroclor 1262	ND		ug/kg	55.2	7.01	1	A
Aroclor 1268	6.83	J	ug/kg	55.2	5.72	1	A
PCBs, Total	18.1	J	ug/kg	55.2	4.90	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	52		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	56		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2434687-28  
**Client ID:** WC07\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/19/24 15:46  
**Date Received:** 06/19/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/26/24 19:26  
**Analyst:** AD  
**Percent Solids:** 85%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/26/24 04:40  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/26/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/26/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	56.6	5.03	1	A
Aroclor 1221	ND		ug/kg	56.6	5.67	1	A
Aroclor 1232	ND		ug/kg	56.6	12.0	1	A
Aroclor 1242	ND		ug/kg	56.6	7.63	1	A
Aroclor 1248	ND		ug/kg	56.6	8.49	1	A
Aroclor 1254	ND		ug/kg	56.6	6.20	1	A
Aroclor 1260	ND		ug/kg	56.6	10.5	1	A
Aroclor 1262	ND		ug/kg	56.6	7.19	1	A
Aroclor 1268	ND		ug/kg	56.6	5.87	1	A
PCBs, Total	ND		ug/kg	56.6	5.03	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	50		30-150	B
Decachlorobiphenyl	84		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2434687-35  
**Client ID:** WC19\_COMP\_9-13  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/19/24 16:25  
**Date Received:** 06/19/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/26/24 19:18  
**Analyst:** AD  
**Percent Solids:** 89%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/26/24 04:40  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/26/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/26/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	54.4	4.83	1	A
Aroclor 1221	ND		ug/kg	54.4	5.45	1	A
Aroclor 1232	ND		ug/kg	54.4	11.5	1	A
Aroclor 1242	ND		ug/kg	54.4	7.34	1	A
Aroclor 1248	ND		ug/kg	54.4	8.16	1	A
Aroclor 1254	ND		ug/kg	54.4	5.95	1	A
Aroclor 1260	ND		ug/kg	54.4	10.0	1	A
Aroclor 1262	ND		ug/kg	54.4	6.91	1	A
Aroclor 1268	ND		ug/kg	54.4	5.64	1	A
PCBs, Total	ND		ug/kg	54.4	4.83	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	56		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	53		30-150	B



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8082A  
Analytical Date: 06/26/24 06:13  
Analyst: MEO

Extraction Method: EPA 3546  
Extraction Date: 06/25/24 12:11  
Cleanup Method: EPA 3665A  
Cleanup Date: 06/25/24  
Cleanup Method: EPA 3660B  
Cleanup Date: 06/25/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 07,14,21,28,35 Batch: WG1939097-1						
Aroclor 1016	ND		ug/kg	49.0	4.35	A
Aroclor 1221	ND		ug/kg	49.0	4.91	A
Aroclor 1232	ND		ug/kg	49.0	10.4	A
Aroclor 1242	ND		ug/kg	49.0	6.60	A
Aroclor 1248	ND		ug/kg	49.0	7.34	A
Aroclor 1254	ND		ug/kg	49.0	5.36	A
Aroclor 1260	ND		ug/kg	49.0	9.05	A
Aroclor 1262	ND		ug/kg	49.0	6.22	A
Aroclor 1268	ND		ug/kg	49.0	5.07	A
PCBs, Total	ND		ug/kg	49.0	4.35	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	92		30-150	A
Decachlorobiphenyl	117		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	124		30-150	B

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1939097-2 WG1939097-3									
Aroclor 1016	91		93		40-140	2		50	A
Aroclor 1260	89		90		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	93		96		30-150	A
Decachlorobiphenyl	117		121		30-150	A
2,4,5,6-Tetrachloro-m-xylene	97		100		30-150	B
Decachlorobiphenyl	125		129		30-150	B

# PESTICIDES

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2434687-07  
**Client ID:** WC12\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/19/24 11:40  
**Date Received:** 06/19/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 06/27/24 06:18  
**Analyst:** MMG  
**Percent Solids:** 87%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/26/24 07:39  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 06/27/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/27/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.75	0.343	1	A
Lindane	ND		ug/kg	0.730	0.326	1	A
Alpha-BHC	ND		ug/kg	0.730	0.207	1	A
Beta-BHC	ND		ug/kg	1.75	0.664	1	A
Heptachlor	ND		ug/kg	0.876	0.393	1	A
Aldrin	ND		ug/kg	1.75	0.617	1	A
Heptachlor epoxide	ND		ug/kg	3.28	0.985	1	A
Endrin	ND		ug/kg	0.730	0.299	1	A
Endrin aldehyde	ND		ug/kg	2.19	0.766	1	A
Endrin ketone	ND		ug/kg	1.75	0.451	1	A
Dieldrin	ND		ug/kg	1.09	0.547	1	A
4,4'-DDE	ND		ug/kg	1.75	0.405	1	A
4,4'-DDD	ND		ug/kg	1.75	0.625	1	A
4,4'-DDT	ND		ug/kg	1.75	1.41	1	A
Endosulfan I	ND		ug/kg	1.75	0.414	1	A
Endosulfan II	ND		ug/kg	1.75	0.585	1	A
Endosulfan sulfate	ND		ug/kg	0.730	0.347	1	A
Methoxychlor	ND		ug/kg	3.28	1.02	1	A
Toxaphene	ND		ug/kg	32.8	9.20	1	A
cis-Chlordane	ND		ug/kg	2.19	0.610	1	A
trans-Chlordane	ND		ug/kg	2.19	0.578	1	A
Chlordane	ND		ug/kg	14.6	5.80	1	A

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-07  
 Client ID: WC12\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 11:40  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	47		30-150	A
Decachlorobiphenyl	38		30-150	A
2,4,5,6-Tetrachloro-m-xylene	56		30-150	B
Decachlorobiphenyl	51		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-07  
 Client ID: WC12\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 11:40  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/26/24 18:17  
 Analyst: EMR  
 Percent Solids: 87%  
 Methylation Date: 06/26/24 09:03

Extraction Method: EPA 8151A  
 Extraction Date: 06/25/24 14:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	189	11.9	1	A
2,4,5-T	ND		ug/kg	189	5.85	1	A
2,4,5-TP (Silvex)	ND		ug/kg	189	5.02	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	97		30-150	A
DCAA	99		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2434687-14  
**Client ID:** WC12\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/19/24 12:30  
**Date Received:** 06/19/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 06/27/24 06:30  
**Analyst:** MMG  
**Percent Solids:** 89%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/26/24 07:39  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 06/27/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/27/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.73	0.339	1	B
Lindane	ND		ug/kg	0.721	0.322	1	B
Alpha-BHC	ND		ug/kg	0.721	0.205	1	B
Beta-BHC	ND		ug/kg	1.73	0.656	1	B
Heptachlor	ND		ug/kg	0.865	0.388	1	B
Aldrin	ND		ug/kg	1.73	0.609	1	B
Heptachlor epoxide	ND		ug/kg	3.24	0.974	1	B
Endrin	ND		ug/kg	0.721	0.296	1	B
Endrin aldehyde	ND		ug/kg	2.16	0.757	1	B
Endrin ketone	ND		ug/kg	1.73	0.446	1	B
Dieldrin	ND		ug/kg	1.08	0.541	1	B
4,4'-DDE	ND		ug/kg	1.73	0.400	1	B
4,4'-DDD	ND		ug/kg	1.73	0.617	1	B
4,4'-DDT	ND		ug/kg	1.73	1.39	1	B
Endosulfan I	ND		ug/kg	1.73	0.409	1	B
Endosulfan II	ND		ug/kg	1.73	0.578	1	B
Endosulfan sulfate	ND		ug/kg	0.721	0.343	1	B
Methoxychlor	ND		ug/kg	3.24	1.01	1	B
Toxaphene	ND		ug/kg	32.4	9.09	1	B
cis-Chlordane	ND		ug/kg	2.16	0.603	1	B
trans-Chlordane	ND		ug/kg	2.16	0.571	1	B
Chlordane	ND		ug/kg	14.4	5.73	1	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-14  
 Client ID: WC12\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 12:30  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
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Organochlorine Pesticides by GC - Westborough Lab							
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Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	5	Q	30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	40		30-150	B
Decachlorobiphenyl	798	Q	30-150	B



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-14  
 Client ID: WC12\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 12:30  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/28/24 18:06  
 Analyst: JAG  
 Percent Solids: 89%  
 Methylation Date: 06/28/24 13:14

Extraction Method: EPA 8151A  
 Extraction Date: 06/27/24 14:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	182	11.5	1	A
2,4,5-T	ND		ug/kg	182	5.65	1	A
2,4,5-TP (Silvex)	ND		ug/kg	182	4.85	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	71		30-150	A
DCAA	23	Q	30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2434687-21  
**Client ID:** WC07\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/19/24 15:00  
**Date Received:** 06/19/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 06/27/24 06:42  
**Analyst:** MMG  
**Percent Solids:** 88%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/26/24 07:39  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 06/27/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/27/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.80	0.353	1	B
Lindane	ND		ug/kg	0.752	0.336	1	B
Alpha-BHC	ND		ug/kg	0.752	0.213	1	B
Beta-BHC	ND		ug/kg	1.80	0.684	1	B
Heptachlor	ND		ug/kg	0.902	0.404	1	B
Aldrin	ND		ug/kg	1.80	0.635	1	B
Heptachlor epoxide	ND		ug/kg	3.38	1.01	1	B
Endrin	ND		ug/kg	0.752	0.308	1	B
Endrin aldehyde	ND		ug/kg	2.25	0.789	1	B
Endrin ketone	ND		ug/kg	1.80	0.464	1	B
Dieldrin	ND		ug/kg	1.13	0.564	1	B
4,4'-DDE	20.0	P	ug/kg	1.80	0.417	1	B
4,4'-DDD	6.02		ug/kg	1.80	0.643	1	B
4,4'-DDT	ND		ug/kg	1.80	1.45	1	B
Endosulfan I	ND		ug/kg	1.80	0.426	1	B
Endosulfan II	ND		ug/kg	1.80	0.603	1	B
Endosulfan sulfate	ND		ug/kg	0.752	0.358	1	B
Methoxychlor	ND		ug/kg	3.38	1.05	1	B
Toxaphene	ND		ug/kg	33.8	9.47	1	B
cis-Chlordane	ND		ug/kg	2.25	0.628	1	B
trans-Chlordane	ND		ug/kg	2.25	0.595	1	B
Chlordane	ND		ug/kg	15.0	5.98	1	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-21  
 Client ID: WC07\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 15:00  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
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## Organochlorine Pesticides by GC - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	23	Q	30-150	A
Decachlorobiphenyl	19	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	60		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-21  
 Client ID: WC07\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 15:00  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/26/24 18:54  
 Analyst: EMR  
 Percent Solids: 88%  
 Methylation Date: 06/26/24 09:03

Extraction Method: EPA 8151A  
 Extraction Date: 06/25/24 14:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	186	11.7	1	A
2,4,5-T	ND		ug/kg	186	5.78	1	A
2,4,5-TP (Silvex)	ND		ug/kg	186	4.96	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	95		30-150	A
DCAA	96		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2434687-28  
**Client ID:** WC07\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/19/24 15:46  
**Date Received:** 06/19/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 06/27/24 06:54  
**Analyst:** MMG  
**Percent Solids:** 85%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/26/24 07:39  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 06/27/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/27/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.84	0.361	1	B
Lindane	ND		ug/kg	0.769	0.344	1	B
Alpha-BHC	ND		ug/kg	0.769	0.218	1	B
Beta-BHC	ND		ug/kg	1.84	0.700	1	B
Heptachlor	ND		ug/kg	0.923	0.414	1	B
Aldrin	ND		ug/kg	1.84	0.650	1	B
Heptachlor epoxide	ND		ug/kg	3.46	1.04	1	B
Endrin	ND		ug/kg	0.769	0.315	1	B
Endrin aldehyde	ND		ug/kg	2.31	0.807	1	B
Endrin ketone	ND		ug/kg	1.84	0.475	1	B
Dieldrin	ND		ug/kg	1.15	0.577	1	B
4,4'-DDE	ND		ug/kg	1.84	0.427	1	B
4,4'-DDD	ND		ug/kg	1.84	0.658	1	B
4,4'-DDT	ND		ug/kg	1.84	1.48	1	B
Endosulfan I	ND		ug/kg	1.84	0.436	1	B
Endosulfan II	ND		ug/kg	1.84	0.617	1	B
Endosulfan sulfate	ND		ug/kg	0.769	0.366	1	B
Methoxychlor	ND		ug/kg	3.46	1.08	1	B
Toxaphene	ND		ug/kg	34.6	9.69	1	B
cis-Chlordane	ND		ug/kg	2.31	0.643	1	B
trans-Chlordane	ND		ug/kg	2.31	0.609	1	B
Chlordane	ND		ug/kg	15.4	6.11	1	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-28  
 Client ID: WC07\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 15:46  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	7	Q	30-150	A
Decachlorobiphenyl	8	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	40		30-150	B
Decachlorobiphenyl	141		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-28  
 Client ID: WC07\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 15:46  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/26/24 19:13  
 Analyst: EMR  
 Percent Solids: 85%  
 Methylation Date: 06/26/24 09:03

Extraction Method: EPA 8151A  
 Extraction Date: 06/25/24 14:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	191	12.0	1	A
2,4,5-T	ND		ug/kg	191	5.92	1	A
2,4,5-TP (Silvex)	ND		ug/kg	191	5.08	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	101		30-150	A
DCAA	111		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2434687-35  
**Client ID:** WC19\_COMP\_9-13  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/19/24 16:25  
**Date Received:** 06/19/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 06/27/24 07:06  
**Analyst:** MMG  
**Percent Solids:** 89%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/26/24 07:39  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 06/27/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/27/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.72	0.337	1	B
Lindane	ND		ug/kg	0.717	0.321	1	B
Alpha-BHC	ND		ug/kg	0.717	0.204	1	B
Beta-BHC	ND		ug/kg	1.72	0.653	1	B
Heptachlor	ND		ug/kg	0.861	0.386	1	B
Aldrin	ND		ug/kg	1.72	0.606	1	B
Heptachlor epoxide	ND		ug/kg	3.23	0.968	1	B
Endrin	ND		ug/kg	0.717	0.294	1	B
Endrin aldehyde	ND		ug/kg	2.15	0.753	1	B
Endrin ketone	ND		ug/kg	1.72	0.443	1	B
Dieldrin	ND		ug/kg	1.08	0.538	1	B
4,4'-DDE	ND		ug/kg	1.72	0.398	1	B
4,4'-DDD	ND		ug/kg	1.72	0.614	1	B
4,4'-DDT	ND		ug/kg	1.72	1.38	1	B
Endosulfan I	ND		ug/kg	1.72	0.407	1	B
Endosulfan II	ND		ug/kg	1.72	0.575	1	B
Endosulfan sulfate	ND		ug/kg	0.717	0.341	1	B
Methoxychlor	ND		ug/kg	3.23	1.00	1	B
Toxaphene	ND		ug/kg	32.3	9.04	1	B
cis-Chlordane	ND		ug/kg	2.15	0.600	1	B
trans-Chlordane	ND		ug/kg	2.15	0.568	1	B
Chlordane	ND		ug/kg	14.3	5.70	1	B



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434687**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2434687-35  
 Client ID: WC19\_COMP\_9-13  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 16:25  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	3	Q	30-150	A
Decachlorobiphenyl	15	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	37		30-150	B
Decachlorobiphenyl	463	Q	30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2434687-35  
 Client ID: WC19\_COMP\_9-13  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/19/24 16:25  
 Date Received: 06/19/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/26/24 19:31  
 Analyst: EMR  
 Percent Solids: 89%  
 Methylation Date: 06/26/24 09:03

Extraction Method: EPA 8151A  
 Extraction Date: 06/25/24 14:12

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	184	11.6	1	A
2,4,5-T	ND		ug/kg	184	5.71	1	A
2,4,5-TP (Silvex)	ND		ug/kg	184	4.90	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	107		30-150	A
DCAA	66		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**Method Blank Analysis  
 Batch Quality Control**

Analytical Method: 1,8151A  
 Analytical Date: 06/26/24 16:07  
 Analyst: EMR

Extraction Method: EPA 8151A  
 Extraction Date: 06/25/24 14:12

Methylation Date: 06/26/24 09:03

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 07,21,28,35 Batch: WG1939158-1						
2,4-D	ND		ug/kg	163	10.2	A
2,4,5-T	ND		ug/kg	163	5.04	A
2,4,5-TP (Silvex)	ND		ug/kg	163	4.33	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	106		30-150	A
DCAA	107		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 06/27/24 05:42  
Analyst: MMG

Extraction Method: EPA 3546  
Extraction Date: 06/26/24 07:39  
Cleanup Method: EPA 3620B  
Cleanup Date: 06/27/24  
Cleanup Method: EPA 3660B  
Cleanup Date: 06/27/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 07,14,21,28,35 Batch: WG1939414-1						
Delta-BHC	ND		ug/kg	1.59	0.312	A
Lindane	ND		ug/kg	0.664	0.297	A
Alpha-BHC	ND		ug/kg	0.664	0.189	A
Beta-BHC	ND		ug/kg	1.59	0.605	A
Heptachlor	ND		ug/kg	0.797	0.357	A
Aldrin	ND		ug/kg	1.59	0.561	A
Heptachlor epoxide	ND		ug/kg	2.99	0.897	A
Endrin	ND		ug/kg	0.664	0.272	A
Endrin aldehyde	ND		ug/kg	1.99	0.698	A
Endrin ketone	ND		ug/kg	1.59	0.411	A
Dieldrin	ND		ug/kg	0.997	0.498	A
4,4'-DDE	ND		ug/kg	1.59	0.369	A
4,4'-DDD	ND		ug/kg	1.59	0.569	A
4,4'-DDT	ND		ug/kg	1.59	1.28	A
Endosulfan I	ND		ug/kg	1.59	0.377	A
Endosulfan II	ND		ug/kg	1.59	0.533	A
Endosulfan sulfate	ND		ug/kg	0.664	0.316	A
Methoxychlor	ND		ug/kg	2.99	0.930	A
Toxaphene	ND		ug/kg	29.9	8.37	A
cis-Chlordane	ND		ug/kg	1.99	0.555	A
trans-Chlordane	ND		ug/kg	1.99	0.526	A
Chlordane	ND		ug/kg	13.3	5.28	A

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**Method Blank Analysis  
 Batch Quality Control**

Analytical Method: 1,8081B  
 Analytical Date: 06/27/24 05:42  
 Analyst: MMG

Extraction Method: EPA 3546  
 Extraction Date: 06/26/24 07:39  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 06/27/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/27/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 07,14,21,28,35 Batch: WG1939414-1						

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	87		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8151A  
Analytical Date: 06/28/24 16:03  
Analyst: JAG

Extraction Method: EPA 8151A  
Extraction Date: 06/27/24 14:43

Methylation Date: 06/28/24 13:14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 14 Batch: WG1940392-1						
2,4-D	ND		ug/kg	164	10.3	A
2,4,5-T	ND		ug/kg	164	5.07	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.35	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	94		30-150	B

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 07,21,28,35 Batch: WG1939158-2 WG1939158-3									
2,4-D	97		101		30-150	4		30	A
2,4,5-T	102		99		30-150	3		30	A
2,4,5-TP (Silvex)	97		95		30-150	2		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	102		97		30-150	A
DCAA	114		112		30-150	B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1939414-2 WG1939414-3									
Delta-BHC	77		69		30-150	11		30	A
Lindane	72		70		30-150	3		30	A
Alpha-BHC	72		69		30-150	4		30	A
Beta-BHC	76		74		30-150	3		30	A
Heptachlor	72		68		30-150	6		30	A
Aldrin	72		68		30-150	6		30	A
Heptachlor epoxide	67		63		30-150	6		30	A
Endrin	78		73		30-150	7		30	A
Endrin aldehyde	70		64		30-150	9		30	A
Endrin ketone	79		73		30-150	8		30	A
Dieldrin	79		74		30-150	7		30	A
4,4'-DDE	74		70		30-150	6		30	A
4,4'-DDD	79		74		30-150	7		30	A
4,4'-DDT	73		69		30-150	6		30	A
Endosulfan I	72		68		30-150	6		30	A
Endosulfan II	76		71		30-150	7		30	A
Endosulfan sulfate	73		67		30-150	9		30	A
Methoxychlor	86		78		30-150	10		30	A
cis-Chlordane	67		64		30-150	5		30	A
trans-Chlordane	63		60		30-150	5		30	A



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1939414-2 WG1939414-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	56		51		30-150	A
Decachlorobiphenyl	57		59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		60		30-150	B
Decachlorobiphenyl	66		65		30-150	B

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 14 Batch: WG1940392-2 WG1940392-3									
2,4-D	85		86		30-150	1		30	A
2,4,5-T	88		90		30-150	2		30	A
2,4,5-TP (Silvex)	83		85		30-150	2		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	94		94		30-150	A
DCAA	107		108		30-150	B

## METALS

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434687**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2434687-07

Date Collected: 06/19/24 11:40

Client ID: WC12\_COMP\_0-4

Date Received: 06/19/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/23/24 23:19

Matrix: Soil

Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	0.0276	J	mg/l	1.00	0.0190	1	06/25/24 22:12	06/26/24 10:31	EPA 3015	1,6010D	DHL
Barium, TCLP	0.772		mg/l	0.500	0.0210	1	06/25/24 22:12	06/26/24 10:31	EPA 3015	1,6010D	DHL
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/25/24 22:12	06/26/24 10:31	EPA 3015	1,6010D	DHL
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/25/24 22:12	06/26/24 10:31	EPA 3015	1,6010D	DHL
Lead, TCLP	1.07		mg/l	0.500	0.0270	1	06/25/24 22:12	06/26/24 10:31	EPA 3015	1,6010D	DHL
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/25/24 16:39	06/26/24 11:02	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/25/24 22:12	06/26/24 10:31	EPA 3015	1,6010D	DHL
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/25/24 22:12	06/26/24 15:20	EPA 3015	1,6010D	JMF



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

## SAMPLE RESULTS

Lab ID: L2434687-07

Date Collected: 06/19/24 11:40

Client ID: WC12\_COMP\_0-4

Date Received: 06/19/24

Sample Location: 145-165 WOLCOTT STREET

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
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	5560		mg/kg	9.13	2.46	2	06/25/24 15:30	06/26/24 12:47	EPA 3050B	1,6010D	JMF
Antimony, Total	11.8		mg/kg	4.56	0.347	2	06/25/24 15:30	06/26/24 12:47	EPA 3050B	1,6010D	JMF
Arsenic, Total	12.9		mg/kg	0.913	0.190	2	06/25/24 15:30	06/26/24 12:47	EPA 3050B	1,6010D	JMF
Barium, Total	184		mg/kg	0.913	0.159	2	06/25/24 15:30	06/26/24 12:47	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.352	J	mg/kg	0.456	0.030	2	06/25/24 15:30	06/26/24 12:47	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.532	J	mg/kg	0.913	0.090	2	06/25/24 15:30	06/26/24 12:47	EPA 3050B	1,6010D	JMF
Calcium, Total	15100		mg/kg	9.13	3.20	2	06/25/24 15:30	06/26/24 12:47	EPA 3050B	1,6010D	JMF
Chromium, Total	14.2		mg/kg	0.913	0.088	2	06/25/24 15:30	06/26/24 12:47	EPA 3050B	1,6010D	JMF
Cobalt, Total	8.25		mg/kg	1.82	0.152	2	06/25/24 15:30	06/26/24 12:47	EPA 3050B	1,6010D	JMF
Copper, Total	130		mg/kg	0.913	0.236	2	06/25/24 15:30	06/26/24 12:47	EPA 3050B	1,6010D	JMF
Iron, Total	39000		mg/kg	4.56	0.824	2	06/25/24 15:30	06/26/24 12:47	EPA 3050B	1,6010D	JMF
Lead, Total	773		mg/kg	4.56	0.245	2	06/25/24 15:30	06/26/24 12:47	EPA 3050B	1,6010D	JMF
Magnesium, Total	2940		mg/kg	9.13	1.40	2	06/25/24 15:30	06/26/24 12:47	EPA 3050B	1,6010D	JMF
Manganese, Total	316		mg/kg	0.913	0.145	2	06/25/24 15:30	06/26/24 12:47	EPA 3050B	1,6010D	JMF
Mercury, Total	1.37		mg/kg	0.073	0.048	1	06/25/24 15:51	06/25/24 21:30	EPA 7471B	1,7471B	MJR
Nickel, Total	26.8		mg/kg	2.28	0.221	2	06/25/24 15:30	06/26/24 12:47	EPA 3050B	1,6010D	JMF
Potassium, Total	595		mg/kg	228	13.1	2	06/25/24 15:30	06/26/24 12:47	EPA 3050B	1,6010D	JMF
Selenium, Total	0.677	J	mg/kg	1.82	0.236	2	06/25/24 15:30	06/26/24 12:47	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.456	0.258	2	06/25/24 15:30	06/26/24 12:47	EPA 3050B	1,6010D	JMF
Sodium, Total	143	J	mg/kg	182	2.88	2	06/25/24 15:30	06/26/24 12:47	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.82	0.288	2	06/25/24 15:30	06/26/24 12:47	EPA 3050B	1,6010D	JMF
Vanadium, Total	22.2		mg/kg	0.913	0.185	2	06/25/24 15:30	06/26/24 12:47	EPA 3050B	1,6010D	JMF
Zinc, Total	450		mg/kg	4.56	0.267	2	06/25/24 15:30	06/26/24 12:47	EPA 3050B	1,6010D	JMF
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	14.2		mg/kg	0.920	0.184	1		06/26/24 12:47	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434687**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2434687-14

Date Collected: 06/19/24 12:30

Client ID: WC12\_COMP\_4-9

Date Received: 06/19/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/23/24 23:19

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/25/24 22:12	06/26/24 14:31	EPA 3015	1,6010D	JMF
Barium, TCLP	0.310	J	mg/l	0.500	0.0210	1	06/25/24 22:12	06/26/24 14:31	EPA 3015	1,6010D	JMF
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/25/24 22:12	06/26/24 14:31	EPA 3015	1,6010D	JMF
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/25/24 22:12	06/26/24 14:31	EPA 3015	1,6010D	JMF
Lead, TCLP	0.194	J	mg/l	0.500	0.0270	1	06/25/24 22:12	06/26/24 14:31	EPA 3015	1,6010D	JMF
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/25/24 16:39	06/26/24 11:06	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/25/24 22:12	06/26/24 14:31	EPA 3015	1,6010D	JMF
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/25/24 22:12	06/26/24 14:31	EPA 3015	1,6010D	JMF



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

## SAMPLE RESULTS

Lab ID: L2434687-14

Date Collected: 06/19/24 12:30

Client ID: WC12\_COMP\_4-9

Date Received: 06/19/24

Sample Location: 145-165 WOLCOTT STREET

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
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	1520		mg/kg	8.54	2.30	2	06/25/24 15:30	06/26/24 12:51	EPA 3050B	1,6010D	JMF
Antimony, Total	ND		mg/kg	4.27	0.324	2	06/25/24 15:30	06/26/24 12:51	EPA 3050B	1,6010D	JMF
Arsenic, Total	3.02		mg/kg	0.854	0.178	2	06/25/24 15:30	06/26/24 12:51	EPA 3050B	1,6010D	JMF
Barium, Total	39.6		mg/kg	0.854	0.148	2	06/25/24 15:30	06/26/24 12:51	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.126	J	mg/kg	0.427	0.028	2	06/25/24 15:30	06/26/24 12:51	EPA 3050B	1,6010D	JMF
Cadmium, Total	ND		mg/kg	0.854	0.084	2	06/25/24 15:30	06/26/24 12:51	EPA 3050B	1,6010D	JMF
Calcium, Total	8330		mg/kg	8.54	2.99	2	06/25/24 15:30	06/26/24 12:51	EPA 3050B	1,6010D	JMF
Chromium, Total	5.50		mg/kg	0.854	0.082	2	06/25/24 15:30	06/26/24 12:51	EPA 3050B	1,6010D	JMF
Cobalt, Total	1.76		mg/kg	1.71	0.142	2	06/25/24 15:30	06/26/24 12:51	EPA 3050B	1,6010D	JMF
Copper, Total	6.06		mg/kg	0.854	0.220	2	06/25/24 15:30	06/26/24 12:51	EPA 3050B	1,6010D	JMF
Iron, Total	4530		mg/kg	4.27	0.771	2	06/25/24 15:30	06/26/24 12:51	EPA 3050B	1,6010D	JMF
Lead, Total	51.1		mg/kg	4.27	0.229	2	06/25/24 15:30	06/26/24 12:51	EPA 3050B	1,6010D	JMF
Magnesium, Total	2980		mg/kg	8.54	1.31	2	06/25/24 15:30	06/26/24 12:51	EPA 3050B	1,6010D	JMF
Manganese, Total	54.2		mg/kg	0.854	0.136	2	06/25/24 15:30	06/26/24 12:51	EPA 3050B	1,6010D	JMF
Mercury, Total	0.188		mg/kg	0.086	0.056	1	06/25/24 15:51	06/25/24 21:33	EPA 7471B	1,7471B	MJR
Nickel, Total	5.92		mg/kg	2.13	0.207	2	06/25/24 15:30	06/26/24 12:51	EPA 3050B	1,6010D	JMF
Potassium, Total	277		mg/kg	213	12.3	2	06/25/24 15:30	06/26/24 12:51	EPA 3050B	1,6010D	JMF
Selenium, Total	0.241	J	mg/kg	1.71	0.220	2	06/25/24 15:30	06/26/24 12:51	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.427	0.242	2	06/25/24 15:30	06/26/24 12:51	EPA 3050B	1,6010D	JMF
Sodium, Total	87.0	J	mg/kg	171	2.69	2	06/25/24 15:30	06/26/24 12:51	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.71	0.269	2	06/25/24 15:30	06/26/24 12:51	EPA 3050B	1,6010D	JMF
Vanadium, Total	6.19		mg/kg	0.854	0.173	2	06/25/24 15:30	06/26/24 12:51	EPA 3050B	1,6010D	JMF
Zinc, Total	40.0		mg/kg	4.27	0.250	2	06/25/24 15:30	06/26/24 12:51	EPA 3050B	1,6010D	JMF
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	5.50		mg/kg	0.895	0.179	1		06/26/24 12:51	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434687**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2434687-21

Date Collected: 06/19/24 15:00

Client ID: WC07\_COMP\_0-4

Date Received: 06/19/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/23/24 23:19

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/25/24 22:12	06/26/24 14:11	EPA 3015	1,6010D	JMF
Barium, TCLP	0.855		mg/l	0.500	0.0210	1	06/25/24 22:12	06/26/24 14:11	EPA 3015	1,6010D	JMF
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/25/24 22:12	06/26/24 14:11	EPA 3015	1,6010D	JMF
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/25/24 22:12	06/26/24 14:11	EPA 3015	1,6010D	JMF
Lead, TCLP	0.133	J	mg/l	0.500	0.0270	1	06/25/24 22:12	06/26/24 14:11	EPA 3015	1,6010D	JMF
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/25/24 16:39	06/26/24 00:29	EPA 7470A	1,7470A	JWN
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/25/24 22:12	06/26/24 14:11	EPA 3015	1,6010D	JMF
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/25/24 22:12	06/26/24 14:11	EPA 3015	1,6010D	JMF





Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

## SAMPLE RESULTS

Lab ID: L2434687-21

Date Collected: 06/19/24 15:00

Client ID: WC07\_COMP\_0-4

Date Received: 06/19/24

Sample Location: 145-165 WOLCOTT STREET

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
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	4140		mg/kg	8.93	2.41	2	06/25/24 15:30	06/26/24 12:55	EPA 3050B	1,6010D	JMF
Antimony, Total	4.91		mg/kg	4.46	0.339	2	06/25/24 15:30	06/26/24 12:55	EPA 3050B	1,6010D	JMF
Arsenic, Total	12.0		mg/kg	0.893	0.186	2	06/25/24 15:30	06/26/24 12:55	EPA 3050B	1,6010D	JMF
Barium, Total	113		mg/kg	0.893	0.155	2	06/25/24 15:30	06/26/24 12:55	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.274	J	mg/kg	0.446	0.030	2	06/25/24 15:30	06/26/24 12:55	EPA 3050B	1,6010D	JMF
Cadmium, Total	1.64		mg/kg	0.893	0.088	2	06/25/24 15:30	06/26/24 12:55	EPA 3050B	1,6010D	JMF
Calcium, Total	18400		mg/kg	8.93	3.12	2	06/25/24 15:30	06/26/24 12:55	EPA 3050B	1,6010D	JMF
Chromium, Total	12.5		mg/kg	0.893	0.086	2	06/25/24 15:30	06/26/24 12:55	EPA 3050B	1,6010D	JMF
Cobalt, Total	5.69		mg/kg	1.78	0.148	2	06/25/24 15:30	06/26/24 12:55	EPA 3050B	1,6010D	JMF
Copper, Total	103		mg/kg	0.893	0.230	2	06/25/24 15:30	06/26/24 12:55	EPA 3050B	1,6010D	JMF
Iron, Total	24900		mg/kg	4.46	0.806	2	06/25/24 15:30	06/26/24 12:55	EPA 3050B	1,6010D	JMF
Lead, Total	316		mg/kg	4.46	0.239	2	06/25/24 15:30	06/26/24 12:55	EPA 3050B	1,6010D	JMF
Magnesium, Total	5920		mg/kg	8.93	1.38	2	06/25/24 15:30	06/26/24 12:55	EPA 3050B	1,6010D	JMF
Manganese, Total	201		mg/kg	0.893	0.142	2	06/25/24 15:30	06/26/24 12:55	EPA 3050B	1,6010D	JMF
Mercury, Total	1.05		mg/kg	0.072	0.047	1	06/25/24 15:51	06/25/24 21:37	EPA 7471B	1,7471B	MJR
Nickel, Total	20.4		mg/kg	2.23	0.216	2	06/25/24 15:30	06/26/24 12:55	EPA 3050B	1,6010D	JMF
Potassium, Total	561		mg/kg	223	12.8	2	06/25/24 15:30	06/26/24 12:55	EPA 3050B	1,6010D	JMF
Selenium, Total	0.475	J	mg/kg	1.78	0.230	2	06/25/24 15:30	06/26/24 12:55	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.446	0.253	2	06/25/24 15:30	06/26/24 12:55	EPA 3050B	1,6010D	JMF
Sodium, Total	111	J	mg/kg	178	2.81	2	06/25/24 15:30	06/26/24 12:55	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.78	0.281	2	06/25/24 15:30	06/26/24 12:55	EPA 3050B	1,6010D	JMF
Vanadium, Total	22.3		mg/kg	0.893	0.181	2	06/25/24 15:30	06/26/24 12:55	EPA 3050B	1,6010D	JMF
Zinc, Total	670		mg/kg	4.46	0.262	2	06/25/24 15:30	06/26/24 12:55	EPA 3050B	1,6010D	JMF
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	12.5		mg/kg	0.912	0.182	1		06/26/24 12:55	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434687**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2434687-28

Date Collected: 06/19/24 15:46

Client ID: WC07\_COMP\_4-9

Date Received: 06/19/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/23/24 23:19

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/25/24 22:12	06/26/24 14:35	EPA 3015	1,6010D	JMF
Barium, TCLP	0.642		mg/l	0.500	0.0210	1	06/25/24 22:12	06/26/24 14:35	EPA 3015	1,6010D	JMF
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/25/24 22:12	06/26/24 14:35	EPA 3015	1,6010D	JMF
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/25/24 22:12	06/26/24 14:35	EPA 3015	1,6010D	JMF
Lead, TCLP	0.334	J	mg/l	0.500	0.0270	1	06/25/24 22:12	06/26/24 14:35	EPA 3015	1,6010D	JMF
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/25/24 16:39	06/26/24 11:09	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/25/24 22:12	06/26/24 14:35	EPA 3015	1,6010D	JMF
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/25/24 22:12	06/26/24 14:35	EPA 3015	1,6010D	JMF



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

## SAMPLE RESULTS

Lab ID: L2434687-28

Date Collected: 06/19/24 15:46

Client ID: WC07\_COMP\_4-9

Date Received: 06/19/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 85%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	2070		mg/kg	8.99	2.43	2	06/25/24 15:30	06/26/24 13:21	EPA 3050B	1,6010D	JMF
Antimony, Total	4.68		mg/kg	4.50	0.342	2	06/25/24 15:30	06/26/24 13:21	EPA 3050B	1,6010D	JMF
Arsenic, Total	13.8		mg/kg	0.899	0.187	2	06/25/24 15:30	06/26/24 13:21	EPA 3050B	1,6010D	JMF
Barium, Total	206		mg/kg	0.899	0.156	2	06/25/24 15:30	06/26/24 13:21	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.313	J	mg/kg	0.450	0.030	2	06/25/24 15:30	06/26/24 13:21	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.197	J	mg/kg	0.899	0.088	2	06/25/24 15:30	06/26/24 13:21	EPA 3050B	1,6010D	JMF
Calcium, Total	8840		mg/kg	8.99	3.15	2	06/25/24 15:30	06/26/24 13:21	EPA 3050B	1,6010D	JMF
Chromium, Total	9.44		mg/kg	0.899	0.086	2	06/25/24 15:30	06/26/24 13:21	EPA 3050B	1,6010D	JMF
Cobalt, Total	4.50		mg/kg	1.80	0.149	2	06/25/24 15:30	06/26/24 13:21	EPA 3050B	1,6010D	JMF
Copper, Total	48.2		mg/kg	0.899	0.232	2	06/25/24 15:30	06/26/24 13:21	EPA 3050B	1,6010D	JMF
Iron, Total	13700		mg/kg	4.50	0.812	2	06/25/24 15:30	06/26/24 13:21	EPA 3050B	1,6010D	JMF
Lead, Total	250		mg/kg	4.50	0.241	2	06/25/24 15:30	06/26/24 13:21	EPA 3050B	1,6010D	JMF
Magnesium, Total	2350		mg/kg	8.99	1.38	2	06/25/24 15:30	06/26/24 13:21	EPA 3050B	1,6010D	JMF
Manganese, Total	71.3		mg/kg	0.899	0.143	2	06/25/24 15:30	06/26/24 13:21	EPA 3050B	1,6010D	JMF
Mercury, Total	2.90		mg/kg	0.089	0.058	1	06/25/24 15:51	06/25/24 21:40	EPA 7471B	1,7471B	MJR
Nickel, Total	11.0		mg/kg	2.25	0.218	2	06/25/24 15:30	06/26/24 13:21	EPA 3050B	1,6010D	JMF
Potassium, Total	384		mg/kg	225	12.9	2	06/25/24 15:30	06/26/24 13:21	EPA 3050B	1,6010D	JMF
Selenium, Total	0.276	J	mg/kg	1.80	0.232	2	06/25/24 15:30	06/26/24 13:21	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.450	0.254	2	06/25/24 15:30	06/26/24 13:21	EPA 3050B	1,6010D	JMF
Sodium, Total	122	J	mg/kg	180	2.83	2	06/25/24 15:30	06/26/24 13:21	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.80	0.283	2	06/25/24 15:30	06/26/24 13:21	EPA 3050B	1,6010D	JMF
Vanadium, Total	10.8		mg/kg	0.899	0.182	2	06/25/24 15:30	06/26/24 13:21	EPA 3050B	1,6010D	JMF
Zinc, Total	291		mg/kg	4.50	0.263	2	06/25/24 15:30	06/26/24 13:21	EPA 3050B	1,6010D	JMF
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	9.44		mg/kg	0.942	0.188	1		06/26/24 13:21	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434687**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2434687-35

Date Collected: 06/19/24 16:25

Client ID: WC19\_COMP\_9-13

Date Received: 06/19/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/23/24 23:19

Matrix: Soil

Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/25/24 22:12	06/26/24 14:39	EPA 3015	1,6010D	JMF
Barium, TCLP	0.274	J	mg/l	0.500	0.0210	1	06/25/24 22:12	06/26/24 14:39	EPA 3015	1,6010D	JMF
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/25/24 22:12	06/26/24 14:39	EPA 3015	1,6010D	JMF
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/25/24 22:12	06/26/24 14:39	EPA 3015	1,6010D	JMF
Lead, TCLP	0.254	J	mg/l	0.500	0.0270	1	06/25/24 22:12	06/26/24 14:39	EPA 3015	1,6010D	JMF
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/25/24 16:39	06/26/24 11:12	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/25/24 22:12	06/26/24 14:39	EPA 3015	1,6010D	JMF
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/25/24 22:12	06/26/24 14:39	EPA 3015	1,6010D	JMF



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

## SAMPLE RESULTS

Lab ID: L2434687-35

Date Collected: 06/19/24 16:25

Client ID: WC19\_COMP\_9-13

Date Received: 06/19/24

Sample Location: 145-165 WOLCOTT STREET

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
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	1920		mg/kg	8.50	2.30	2	06/25/24 15:30	06/26/24 13:25	EPA 3050B	1,6010D	JMF
Antimony, Total	0.414	J	mg/kg	4.25	0.323	2	06/25/24 15:30	06/26/24 13:25	EPA 3050B	1,6010D	JMF
Arsenic, Total	2.98		mg/kg	0.850	0.177	2	06/25/24 15:30	06/26/24 13:25	EPA 3050B	1,6010D	JMF
Barium, Total	44.7		mg/kg	0.850	0.148	2	06/25/24 15:30	06/26/24 13:25	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.134	J	mg/kg	0.425	0.028	2	06/25/24 15:30	06/26/24 13:25	EPA 3050B	1,6010D	JMF
Cadmium, Total	ND		mg/kg	0.850	0.083	2	06/25/24 15:30	06/26/24 13:25	EPA 3050B	1,6010D	JMF
Calcium, Total	9640		mg/kg	8.50	2.98	2	06/25/24 15:30	06/26/24 13:25	EPA 3050B	1,6010D	JMF
Chromium, Total	9.33		mg/kg	0.850	0.082	2	06/25/24 15:30	06/26/24 13:25	EPA 3050B	1,6010D	JMF
Cobalt, Total	1.36	J	mg/kg	1.70	0.141	2	06/25/24 15:30	06/26/24 13:25	EPA 3050B	1,6010D	JMF
Copper, Total	13.2		mg/kg	0.850	0.219	2	06/25/24 15:30	06/26/24 13:25	EPA 3050B	1,6010D	JMF
Iron, Total	5920		mg/kg	4.25	0.768	2	06/25/24 15:30	06/26/24 13:25	EPA 3050B	1,6010D	JMF
Lead, Total	68.7		mg/kg	4.25	0.228	2	06/25/24 15:30	06/26/24 13:25	EPA 3050B	1,6010D	JMF
Magnesium, Total	3930		mg/kg	8.50	1.31	2	06/25/24 15:30	06/26/24 13:25	EPA 3050B	1,6010D	JMF
Manganese, Total	48.1		mg/kg	0.850	0.135	2	06/25/24 15:30	06/26/24 13:25	EPA 3050B	1,6010D	JMF
Mercury, Total	0.063	J	mg/kg	0.091	0.059	1	06/25/24 23:10	06/26/24 11:12	EPA 7471B	1,7471B	JWN
Nickel, Total	6.28		mg/kg	2.13	0.206	2	06/25/24 15:30	06/26/24 13:25	EPA 3050B	1,6010D	JMF
Potassium, Total	501		mg/kg	213	12.2	2	06/25/24 15:30	06/26/24 13:25	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	1.70	0.219	2	06/25/24 15:30	06/26/24 13:25	EPA 3050B	1,6010D	JMF
Silver, Total	ND		mg/kg	0.425	0.241	2	06/25/24 15:30	06/26/24 13:25	EPA 3050B	1,6010D	JMF
Sodium, Total	77.3	J	mg/kg	170	2.68	2	06/25/24 15:30	06/26/24 13:25	EPA 3050B	1,6010D	JMF
Thallium, Total	ND		mg/kg	1.70	0.268	2	06/25/24 15:30	06/26/24 13:25	EPA 3050B	1,6010D	JMF
Vanadium, Total	8.88		mg/kg	0.850	0.173	2	06/25/24 15:30	06/26/24 13:25	EPA 3050B	1,6010D	JMF
Zinc, Total	36.1		mg/kg	4.25	0.249	2	06/25/24 15:30	06/26/24 13:25	EPA 3050B	1,6010D	JMF
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	9.33		mg/kg	0.897	0.179	1		06/26/24 13:25	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

## 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): 35 Batch: WG1938863-1									
Mercury, Total	ND	mg/kg	0.083	0.054	1	06/25/24 23:10	06/26/24 09:46	1,7471B	JWN

### Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 07,14,21,28,35 Batch: WG1939050-1									
Aluminum, Total	1.88	J	mg/kg	4.00	1.08	1	06/25/24 15:30	06/26/24 09:40	1,6010D JMF
Antimony, Total	ND		mg/kg	2.00	0.152	1	06/25/24 15:30	06/26/24 09:40	1,6010D JMF
Arsenic, Total	ND		mg/kg	0.400	0.083	1	06/25/24 15:30	06/26/24 09:40	1,6010D JMF
Barium, Total	ND		mg/kg	0.400	0.070	1	06/25/24 15:30	06/26/24 09:40	1,6010D JMF
Beryllium, Total	ND		mg/kg	0.200	0.013	1	06/25/24 15:30	06/26/24 09:40	1,6010D JMF
Cadmium, Total	ND		mg/kg	0.400	0.039	1	06/25/24 15:30	06/26/24 09:40	1,6010D JMF
Calcium, Total	2.16	J	mg/kg	4.00	1.40	1	06/25/24 15:30	06/26/24 09:40	1,6010D JMF
Chromium, Total	0.049	J	mg/kg	0.400	0.038	1	06/25/24 15:30	06/26/24 09:40	1,6010D JMF
Cobalt, Total	ND		mg/kg	0.800	0.066	1	06/25/24 15:30	06/26/24 09:40	1,6010D JMF
Copper, Total	ND		mg/kg	0.400	0.103	1	06/25/24 15:30	06/26/24 09:40	1,6010D JMF
Iron, Total	2.02		mg/kg	2.00	0.361	1	06/25/24 15:30	06/26/24 09:40	1,6010D JMF
Lead, Total	ND		mg/kg	2.00	0.107	1	06/25/24 15:30	06/26/24 09:40	1,6010D JMF
Magnesium, Total	0.702	J	mg/kg	4.00	0.616	1	06/25/24 15:30	06/26/24 09:40	1,6010D JMF
Manganese, Total	ND		mg/kg	0.400	0.064	1	06/25/24 15:30	06/26/24 09:40	1,6010D JMF
Nickel, Total	ND		mg/kg	1.00	0.097	1	06/25/24 15:30	06/26/24 09:40	1,6010D JMF
Potassium, Total	ND		mg/kg	100	5.76	1	06/25/24 15:30	06/26/24 09:40	1,6010D JMF
Selenium, Total	ND		mg/kg	0.800	0.103	1	06/25/24 15:30	06/26/24 09:40	1,6010D JMF
Silver, Total	ND		mg/kg	0.200	0.113	1	06/25/24 15:30	06/26/24 09:40	1,6010D JMF
Sodium, Total	ND		mg/kg	80.0	1.26	1	06/25/24 15:30	06/26/24 09:40	1,6010D JMF
Thallium, Total	ND		mg/kg	0.800	0.126	1	06/25/24 15:30	06/26/24 09:40	1,6010D JMF
Vanadium, Total	ND		mg/kg	0.400	0.081	1	06/25/24 15:30	06/26/24 09:40	1,6010D JMF
Zinc, Total	ND		mg/kg	2.00	0.117	1	06/25/24 15:30	06/26/24 09:40	1,6010D JMF

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

## Method Blank Analysis Batch Quality Control

### 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): 07,14,21,28 Batch: WG1939051-1									
Mercury, Total	ND	mg/kg	0.083	0.054	1	06/25/24 15:51	06/25/24 20:37	1,7471B	MJR

### Prep Information

Digestion Method: EPA 7471B

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 07,14,28,35 Batch: WG1939133-1									
Arsenic, TCLP	ND	mg/l	1.00	0.0190	1	06/25/24 22:12	06/26/24 09:59	1,6010D	DHL
Barium, TCLP	ND	mg/l	0.500	0.0210	1	06/25/24 22:12	06/26/24 09:59	1,6010D	DHL
Cadmium, TCLP	ND	mg/l	0.100	0.0100	1	06/25/24 22:12	06/26/24 09:59	1,6010D	DHL
Chromium, TCLP	ND	mg/l	0.200	0.0210	1	06/25/24 22:12	06/26/24 09:59	1,6010D	DHL
Lead, TCLP	ND	mg/l	0.500	0.0270	1	06/25/24 22:12	06/26/24 09:59	1,6010D	DHL
Selenium, TCLP	ND	mg/l	0.500	0.0350	1	06/25/24 22:12	06/26/24 09:59	1,6010D	DHL
Silver, TCLP	ND	mg/l	0.100	0.0280	1	06/25/24 22:12	06/26/24 09:59	1,6010D	DHL

### Prep Information

Digestion Method: EPA 3015

TCLP/SPLP Extraction Date: 06/23/24 23:19

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 07,14,28,35 Batch: WG1939135-1									
Mercury, TCLP	ND	mg/l	0.0010	0.0005	1	06/25/24 16:39	06/26/24 10:46	1,7470A	MJR

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

## Method Blank Analysis Batch Quality Control

### Prep Information

Digestion Method: EPA 7470A  
 TCLP/SPLP Extraction Date: 06/23/24 23:19

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 21 Batch: WG1939138-1									
Arsenic, TCLP	ND	mg/l	1.00	0.0190	1	06/25/24 22:12	06/26/24 14:03	1,6010D	JMF
Barium, TCLP	ND	mg/l	0.500	0.0210	1	06/25/24 22:12	06/26/24 14:03	1,6010D	JMF
Cadmium, TCLP	ND	mg/l	0.100	0.0100	1	06/25/24 22:12	06/26/24 14:03	1,6010D	JMF
Chromium, TCLP	ND	mg/l	0.200	0.0210	1	06/25/24 22:12	06/26/24 14:03	1,6010D	JMF
Lead, TCLP	ND	mg/l	0.500	0.0270	1	06/25/24 22:12	06/26/24 14:03	1,6010D	JMF
Selenium, TCLP	ND	mg/l	0.500	0.0350	1	06/25/24 22:12	06/26/24 14:03	1,6010D	JMF
Silver, TCLP	ND	mg/l	0.100	0.0280	1	06/25/24 22:12	06/26/24 14:03	1,6010D	JMF

### Prep Information

Digestion Method: EPA 3015  
 TCLP/SPLP Extraction Date: 06/23/24 23:19

Parameter	Result Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 21 Batch: WG1939139-1									
Mercury, TCLP	ND	mg/l	0.0010	0.0005	1	06/25/24 16:39	06/26/24 00:22	1,7470A	JWN

### Prep Information

Digestion Method: EPA 7470A  
 TCLP/SPLP Extraction Date: 06/23/24 23:19





### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 35 Batch: WG1938863-2								
Mercury, Total	98		-		80-120	-		

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2434687

**Report Date:** 06/30/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 07,14,21,28,35 Batch: WG1939050-2					
Aluminum, Total	107	-	80-120	-	
Antimony, Total	107	-	80-120	-	
Arsenic, Total	101	-	80-120	-	
Barium, Total	106	-	80-120	-	
Beryllium, Total	107	-	80-120	-	
Cadmium, Total	102	-	80-120	-	
Calcium, Total	102	-	80-120	-	
Chromium, Total	102	-	80-120	-	
Cobalt, Total	104	-	80-120	-	
Copper, Total	104	-	80-120	-	
Iron, Total	107	-	80-120	-	
Lead, Total	101	-	80-120	-	
Magnesium, Total	101	-	80-120	-	
Manganese, Total	103	-	80-120	-	
Nickel, Total	102	-	80-120	-	
Potassium, Total	106	-	80-120	-	
Selenium, Total	101	-	80-120	-	
Silver, Total	104	-	80-120	-	
Sodium, Total	105	-	80-120	-	
Thallium, Total	96	-	80-120	-	
Vanadium, Total	105	-	80-120	-	

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2434687

**Report Date:** 06/30/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
<b>Total Metals - Mansfield Lab Associated sample(s): 07,14,21,28,35 Batch: WG1939050-2</b>					
Zinc, Total	102	-	80-120	-	
<b>Total Metals - Mansfield Lab Associated sample(s): 07,14,21,28 Batch: WG1939051-2</b>					
Mercury, Total	99	-	80-120	-	
<b>TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07,14,28,35 Batch: WG1939133-2</b>					
Arsenic, TCLP	91	-	75-125	-	20
Barium, TCLP	90	-	75-125	-	20
Cadmium, TCLP	93	-	75-125	-	20
Chromium, TCLP	92	-	75-125	-	20
Lead, TCLP	95	-	75-125	-	20
Selenium, TCLP	88	-	75-125	-	20
Silver, TCLP	96	-	75-125	-	20
<b>TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07,14,28,35 Batch: WG1939135-2</b>					
Mercury, TCLP	85	-	80-120	-	

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2434687

**Report Date:** 06/30/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 21 Batch: WG1939138-2					
Arsenic, TCLP	89	-	75-125	-	20
Barium, TCLP	94	-	75-125	-	20
Cadmium, TCLP	90	-	75-125	-	20
Chromium, TCLP	91	-	75-125	-	20
Lead, TCLP	90	-	75-125	-	20
Selenium, TCLP	88	-	75-125	-	20
Silver, TCLP	92	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 21 Batch: WG1939139-2					
Mercury, TCLP	87	-	80-120	-	

**Matrix Spike Analysis**  
**Batch Quality Control**

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

<b>Parameter</b>	<b>Native Sample</b>	<b>MS Added</b>	<b>MS Found</b>	<b>MS %Recovery</b>	<b>Qual</b>	<b>MSD Found</b>	<b>MSD %Recovery</b>	<b>Qual</b>	<b>Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
Total Metals - Mansfield Lab Associated sample(s): 35    QC Batch ID: WG1938863-3    QC Sample: L2434565-27    Client ID: MS Sample												
Mercury, Total	0.516	2.35	2.92	102		-	-		80-120	-		20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

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): 07,14,21,28,35 QC Batch ID: WG1939050-3 WG1939050-4 QC Sample: L2434651-05 Client ID: MS Sample												
Aluminum, Total	8800	171	7950	0	Q	9920	649	Q	75-125	22	Q	20
Antimony, Total	0.986J	42.8	37.9	88		37.6	87		75-125	1		20
Arsenic, Total	10.0	10.3	18.6	84		21.3	109		75-125	14		20
Barium, Total	44.0	171	198	90		214	98		75-125	8		20
Beryllium, Total	0.393J	4.28	4.38	102		4.56	106		75-125	4		20
Cadmium, Total	0.614J	4.53	4.45	98		4.64	101		75-125	4		20
Calcium, Total	26900	856	14100	0	Q	17000	0	Q	75-125	19		20
Chromium, Total	14.0	17.1	26.9	75		31.0	98		75-125	14		20
Cobalt, Total	7.85	42.8	43.7	84		45.1	86		75-125	3		20
Copper, Total	47.7	21.4	63.5	74	Q	72.1	113		75-125	13		20
Iron, Total	23000	85.6	20600	0	Q	24900	2200	Q	75-125	19		20
Lead, Total	13.2	45.3	53.0	88		55.8	93		75-125	5		20
Magnesium, Total	6240	856	5160	0	Q	5530	0	Q	75-125	7		20
Manganese, Total	546	42.8	505	0	Q	661	266	Q	75-125	27	Q	20
Nickel, Total	23.4	42.8	56.8	78		60.7	86		75-125	7		20
Potassium, Total	688	856	1390	82		1550	100		75-125	11		20
Selenium, Total	ND	10.3	9.72	95		9.81	95		75-125	1		20
Silver, Total	ND	4.28	4.10	96		4.18	97		75-125	2		20
Sodium, Total	139J	856	910	106		967	112		75-125	6		20
Thallium, Total	ND	10.3	9.33	91		9.12	88		75-125	2		20
Vanadium, Total	14.6	42.8	50.9	85		54.1	92		75-125	6		20



### Matrix Spike Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

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): 07,14,21,28,35 QC Batch ID: WG1939050-3 WG1939050-4 QC Sample: L2434651-05 Client ID: MS Sample									
Zinc, Total	100	42.8	122	51	Q 151	118	75-125	21	Q 20
Total Metals - Mansfield Lab Associated sample(s): 07,14,21,28 QC Batch ID: WG1939051-3 WG1939051-4 QC Sample: L2434651-05 Client ID: MS Sample									
Mercury, Total	0.650	1.46	1.85	82	2.07	88	80-120	11	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07,14,28,35 QC Batch ID: WG1939133-3 QC Sample: L2434687-07 Client ID: WC12_COMP_0-4									
Arsenic, TCLP	0.0276J	1.2	1.19	99	-	-	75-125	-	20
Barium, TCLP	0.772	20	18.2	87	-	-	75-125	-	20
Cadmium, TCLP	ND	0.53	0.511	96	-	-	75-125	-	20
Chromium, TCLP	ND	2	1.81	90	-	-	75-125	-	20
Lead, TCLP	1.07	5.3	6.10	95	-	-	75-125	-	20
Selenium, TCLP	ND	1.2	1.14	95	-	-	75-125	-	20
Silver, TCLP	ND	0.5	0.496	99	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07,14,28,35 QC Batch ID: WG1939135-3 QC Sample: L2434669-02 Client ID: MS Sample									
Mercury, TCLP	ND	0.025	0.0239	96	-	-	75-125	-	20



### Matrix Spike Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2434687

**Project Number:** 170562203

**Report Date:** 06/30/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Found	MSD %Recovery	Recovery Limits	RPD	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 21 QC Batch ID: WG1939138-3 QC Sample: L2434687-21 Client ID: WC07_COMP_0-4									
Arsenic, TCLP	ND	1.2	1.23	102	-	-	75-125	-	20
Barium, TCLP	0.855	20	20.7	99	-	-	75-125	-	20
Cadmium, TCLP	ND	0.53	0.498	94	-	-	75-125	-	20
Chromium, TCLP	ND	2	1.90	95	-	-	75-125	-	20
Lead, TCLP	0.133J	5.3	5.32	100	-	-	75-125	-	20
Selenium, TCLP	ND	1.2	1.25	104	-	-	75-125	-	20
Silver, TCLP	ND	0.5	0.495	99	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 21 QC Batch ID: WG1939139-3 QC Sample: L2434687-21 Client ID: WC07_COMP_0-4									
Mercury, TCLP	ND	0.025	0.0228	91	-	-	75-125	-	20



**Lab Duplicate Analysis**  
*Batch Quality Control*

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
<b>Total Metals - Mansfield Lab Associated sample(s): 35 QC Batch ID: WG1938863-4 QC Sample: L2434565-27 Client ID: DUP Sample</b>						
Mercury, Total	0.516	0.555	mg/kg	7		20
<b>TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07,14,28,35 QC Batch ID: WG1939133-4 QC Sample: L2434687-07 Client ID: WC12_COMP_0-4</b>						
Arsenic, TCLP	0.0276J	ND	mg/l	NC		20
Barium, TCLP	0.772	0.792	mg/l	3		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	1.07	1.11	mg/l	4		20
Selenium, TCLP	ND	ND	mg/l	NC		20
<b>TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07,14,28,35 QC Batch ID: WG1939133-4 QC Sample: L2434687-07 Client ID: WC12_COMP_0-4</b>						
Silver, TCLP	ND	ND	mg/l	NC		20
<b>TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07,14,28,35 QC Batch ID: WG1939135-4 QC Sample: L2434669-02 Client ID: DUP Sample</b>						
Mercury, TCLP	ND	ND	mg/l	NC		20



## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2434687

Report Date: 06/30/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 21 QC Batch ID: WG1939138-4 QC Sample: L2434687-21 Client ID: WC07_COMP_0-4					
Arsenic, TCLP	ND	ND	mg/l	NC	20
Barium, TCLP	0.855	0.869	mg/l	2	20
Cadmium, TCLP	ND	ND	mg/l	NC	20
Chromium, TCLP	ND	ND	mg/l	NC	20
Lead, TCLP	0.133J	0.127J	mg/l	NC	20
Selenium, TCLP	ND	0.0351J	mg/l	NC	20
Silver, TCLP	ND	ND	mg/l	NC	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 21 QC Batch ID: WG1939139-4 QC Sample: L2434687-21 Client ID: WC07_COMP_0-4					
Mercury, TCLP	ND	ND	mg/l	NC	20

# **INORGANICS & MISCELLANEOUS**

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

### SAMPLE RESULTS

**Lab ID:** L2434687-07  
**Client ID:** WC12\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/19/24 11:40  
**Date Received:** 06/19/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/25/24 15:11	1,1030	GEF



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

### SAMPLE RESULTS

**Lab ID:** L2434687-14  
**Client ID:** WC12\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/19/24 12:30  
**Date Received:** 06/19/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/25/24 15:11	1,1030	GEF



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

### SAMPLE RESULTS

**Lab ID:** L2434687-21  
**Client ID:** WC07\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/19/24 15:00  
**Date Received:** 06/19/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/25/24 15:11	1,1030	GEF



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

### SAMPLE RESULTS

**Lab ID:** L2434687-28  
**Client ID:** WC07\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/19/24 15:46  
**Date Received:** 06/19/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/25/24 15:11	1,1030	GEF



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

### SAMPLE RESULTS

**Lab ID:** L2434687-35  
**Client ID:** WC19\_COMP\_9-13  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/19/24 16:25  
**Date Received:** 06/19/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/25/24 15:11	1,1030	GEF





**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434687**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2434687-01

Date Collected: 06/19/24 11:10

Client ID: WC12E\_GRAB\_0-2

Date Received: 06/19/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	66.4		%	0.100	NA	1	-	06/21/24 10:02	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2434687-07  
**Client ID:** WC12\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/19/24 11:40  
**Date Received:** 06/19/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	87.0		%	0.100	NA	1	-	06/21/24 10:02	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	06/26/24 15:40	06/26/24 19:12	1,9010C/9012B	JER
pH (H)	8.74		SU	-	NA	1	-	06/22/24 05:26	1,9045D	CAR
Chromium, Hexavalent	ND		mg/kg	0.920	0.184	1	06/26/24 07:03	06/26/24 11:56	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/25/24 21:20	06/25/24 22:39	125,7.3	TLH
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/25/24 21:20	06/25/24 22:28	125,7.3	TLH



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

## SAMPLE RESULTS

Lab ID: L2434687-08

Date Collected: 06/19/24 12:00

Client ID: WC12C\_GRAB\_5-7

Date Received: 06/19/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.0		%	0.100	NA	1	-	06/21/24 10:02	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2434687-14  
**Client ID:** WC12\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/19/24 12:30  
**Date Received:** 06/19/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	89.4		%	0.100	NA	1	-	06/21/24 10:02	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	06/26/24 15:40	06/26/24 19:13	1,9010C/9012B	JER
pH (H)	7.93		SU	-	NA	1	-	06/22/24 05:26	1,9045D	CAR
Chromium, Hexavalent	ND		mg/kg	0.895	0.179	1	06/26/24 07:03	06/26/24 11:56	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/25/24 21:20	06/25/24 22:39	125,7.3	TLH
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/25/24 21:20	06/25/24 22:28	125,7.3	TLH



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434687**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2434687-15

Date Collected: 06/19/24 14:30

Client ID: WC07E\_GRAB\_0-2

Date Received: 06/19/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.6		%	0.100	NA	1	-	06/21/24 10:02	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2434687-21  
**Client ID:** WC07\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/19/24 15:00  
**Date Received:** 06/19/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	87.7		%	0.100	NA	1	-	06/21/24 10:02	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	06/25/24 19:50	06/26/24 13:33	1,9010C/9012B	JER
pH (H)	8.14		SU	-	NA	1	-	06/22/24 05:26	1,9045D	CAR
Chromium, Hexavalent	ND		mg/kg	0.912	0.182	1	06/26/24 07:03	06/26/24 11:56	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/25/24 21:20	06/25/24 22:39	125,7.3	TLH
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/25/24 21:20	06/25/24 22:28	125,7.3	TLH



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2434687

Project Number: 170562203

Report Date: 06/30/24

## SAMPLE RESULTS

Lab ID: L2434687-22

Date Collected: 06/19/24 15:30

Client ID: WC07E\_GRAB\_6-8

Date Received: 06/19/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	66.8		%	0.100	NA	1	-	06/21/24 10:02	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2434687-28  
**Client ID:** WC07\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/19/24 15:46  
**Date Received:** 06/19/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	84.9		%	0.100	NA	1	-	06/21/24 10:02	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	06/25/24 19:50	06/26/24 13:34	1,9010C/9012B	JER
pH (H)	9.17		SU	-	NA	1	-	06/22/24 05:26	1,9045D	CAR
Chromium, Hexavalent	ND		mg/kg	0.942	0.188	1	06/26/24 07:03	06/26/24 11:56	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/25/24 21:20	06/25/24 22:39	125,7.3	TLH
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/25/24 21:20	06/25/24 22:29	125,7.3	TLH





**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2434687**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2434687-29

Date Collected: 06/19/24 16:10

Client ID: WC07B\_GRAB\_11-13

Date Received: 06/19/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	85.2		%	0.100	NA	1	-	06/21/24 10:02	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2434687-35  
**Client ID:** WC19\_COMP\_9-13  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/19/24 16:25  
**Date Received:** 06/19/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	89.2		%	0.100	NA	1	-	06/21/24 10:02	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	06/25/24 19:50	06/26/24 13:35	1,9010C/9012B	JER
pH (H)	7.30		SU	-	NA	1	-	06/22/24 05:26	1,9045D	CAR
Chromium, Hexavalent	ND		mg/kg	0.897	0.179	1	06/26/24 07:03	06/26/24 11:56	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/25/24 21:20	06/25/24 22:39	125,7.3	TLH
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/25/24 21:20	06/25/24 22:29	125,7.3	TLH



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 21,28,35 Batch: WG1939286-1										
Cyanide, Total	ND		mg/kg	0.98	0.21	1	06/25/24 19:50	06/26/24 13:27	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 07,14,21,28,35 Batch: WG1939307-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/25/24 21:20	06/25/24 22:39	125,7.3	TLH
General Chemistry - Westborough Lab for sample(s): 07,14,21,28,35 Batch: WG1939309-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/25/24 21:20	06/25/24 22:29	125,7.3	TLH
General Chemistry - Westborough Lab for sample(s): 07,14,21,28,35 Batch: WG1939399-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	06/26/24 07:03	06/26/24 11:56	1,7196A	RDS
General Chemistry - Westborough Lab for sample(s): 07,14 Batch: WG1939765-1										
Cyanide, Total	ND		mg/kg	0.90	0.19	1	06/26/24 15:40	06/26/24 18:32	1,9010C/9012B	JER

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1937836-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 21,28,35 Batch: WG1939286-2 WG1939286-3								
Cyanide, Total	110		103		80-120	7		35
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1939307-2								
Cyanide, Reactive	92		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1939309-2								
Sulfide, Reactive	76		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,28,35 Batch: WG1939399-2								
Chromium, Hexavalent	95		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 07,14 Batch: WG1939765-2 WG1939765-3								
Cyanide, Total	101		83		80-120	20		35

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 21,28,35 QC Batch ID: WG1939286-4 WG1939286-5 QC Sample: L2435674-05 Client ID: MS Sample												
Cyanide, Total	ND	10	11	110		11	99		75-125	11		35
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,28,35 QC Batch ID: WG1939399-4 QC Sample: L2434687-07 Client ID: WC12_COMP_0-4												
Chromium, Hexavalent	ND	1450	821	56	Q	-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 07,14 QC Batch ID: WG1939765-4 WG1939765-5 QC Sample: L2434721-07 Client ID: MS Sample												
Cyanide, Total	ND	10	9.8	98		9.8	89		75-125	10		35

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2434687

Report Date: 06/30/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,07-08,14-15,21-22,28-29,35 QC Batch ID: WG1937458-1 QC Sample: L2432656-12 Client ID: DUP Sample						
Solids, Total	88.5	89.0	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,28,35 QC Batch ID: WG1937836-2 QC Sample: L2434346-01 Client ID: DUP Sample						
pH	8.28	8.32	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,28,35 QC Batch ID: WG1939307-3 QC Sample: L2434738-01 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,28,35 QC Batch ID: WG1939309-3 QC Sample: L2434738-01 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,28,35 QC Batch ID: WG1939399-6 QC Sample: L2434687-07 Client ID: WC12_COMP_0-4						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

Serial\_No:06302415:55  
**Lab Number:** L2434687  
**Report Date:** 06/30/24

**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information**

<b>Cooler</b>	<b>Custody Seal</b>
A	Absent
B	Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2434687-01A	Vial MeOH preserved	A	NA		3.6	Y	Absent		NYTCL-8260HLW(14)
L2434687-01B	Vial water preserved	A	NA		3.6	Y	Absent	20-JUN-24 16:15	NYTCL-8260HLW(14)
L2434687-01C	Vial water preserved	A	NA		3.6	Y	Absent	20-JUN-24 16:15	NYTCL-8260HLW(14)
L2434687-01D	Plastic 120ml unpreserved	A	NA		3.6	Y	Absent		TS(7)
L2434687-01E	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		NJEPH-TPH-CAT1(14)
L2434687-02A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		HOLD-METAL(180)
L2434687-02B	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		HOLD-WETCHEM()
L2434687-03A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		HOLD-METAL(180)
L2434687-03B	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		HOLD-WETCHEM()
L2434687-04A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		HOLD-METAL(180)
L2434687-04B	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		HOLD-WETCHEM()
L2434687-05A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		HOLD-METAL(180)
L2434687-05B	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		HOLD-WETCHEM()
L2434687-06A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		HOLD-METAL(180)
L2434687-06B	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		HOLD-WETCHEM()
L2434687-07A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-TI(180),TL-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),CU-TI(180),V-TI(180),CO-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2434687-07B	Plastic 120ml unpreserved	A	NA		3.6	Y	Absent		IGNIT-1030(14),TCN-9010(14),NYTCL-8270(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)

\*Values in parentheses indicate holding time in days



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**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2434687-07C	Plastic 120ml unpreserved	A	NA		3.6	Y	Absent		IGNIT-1030(14),TCN-9010(14),NYTCL-8270(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2434687-07D	Plastic 250ml unpreserved	A	NA		3.6	Y	Absent		IGNIT-1030(14),TCN-9010(14),NYTCL-8270(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2434687-07X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.6	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2434687-07X9	Tumble Vessel	A	NA		3.6	Y	Absent		-
L2434687-08A	Vial MeOH preserved	A	NA		3.6	Y	Absent		NYTCL-8260HLW(14)
L2434687-08B	Vial water preserved	A	NA		3.6	Y	Absent	20-JUN-24 16:15	NYTCL-8260HLW(14)
L2434687-08C	Vial water preserved	A	NA		3.6	Y	Absent	20-JUN-24 16:15	NYTCL-8260HLW(14)
L2434687-08D	Plastic 120ml unpreserved	A	NA		3.6	Y	Absent		TS(7)
L2434687-08E	Glass 120ml/4oz unpreserved	A	NA		3.6	Y	Absent		NJEPH-TPH-CAT1(14)
L2434687-09A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		HOLD-METAL(180)
L2434687-09B	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		HOLD-WETCHEM()
L2434687-10A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		HOLD-METAL(180)
L2434687-10B	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		HOLD-WETCHEM()
L2434687-11A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		HOLD-METAL(180)
L2434687-11B	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		HOLD-WETCHEM()
L2434687-12A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		HOLD-METAL(180)
L2434687-12B	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		HOLD-WETCHEM()
L2434687-13A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	Y	Absent		HOLD-METAL(180)
L2434687-13B	Glass 250ml/8oz unpreserved	A	NA		3.6	Y	Absent		HOLD-WETCHEM()
L2434687-14A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.6	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),PB-TI(180),SB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),MG-TI(180),MN-TI(180),FE-TI(180),HG-T(28),CA-TI(180),NA-TI(180),K-TI(180),CD-TI(180)



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**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2434687-14B	Plastic 120ml unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14),REACTS(14),IGNIT-1030(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2434687-14C	Plastic 120ml unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14),REACTS(14),IGNIT-1030(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2434687-14D	Plastic 250ml unpreserved	A	NA		3.6	Y	Absent		NYTCL-8270(14),REACTS(14),IGNIT-1030(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2434687-14X	Plastic 120ml HNO3 preserved Extracts	A	NA		3.6	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2434687-14X9	Tumble Vessel	A	NA		3.6	Y	Absent		-
L2434687-15A	Vial MeOH preserved	B	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L2434687-15B	Vial water preserved	B	NA		4.2	Y	Absent	20-JUN-24 16:15	NYTCL-8260HLW(14)
L2434687-15C	Vial water preserved	B	NA		4.2	Y	Absent	20-JUN-24 16:15	NYTCL-8260HLW(14)
L2434687-15D	Plastic 120ml unpreserved	B	NA		4.2	Y	Absent		TS(7)
L2434687-15E	Glass 120ml/4oz unpreserved	B	NA		4.2	Y	Absent		NJEPH-TPH-CAT1(14)
L2434687-16A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		HOLD-METAL(180)
L2434687-16B	Glass 250ml/8oz unpreserved	B	NA		4.2	Y	Absent		HOLD-WETCHEM()
L2434687-17A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		HOLD-METAL(180)
L2434687-17B	Glass 250ml/8oz unpreserved	B	NA		4.2	Y	Absent		HOLD-WETCHEM()
L2434687-18A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		HOLD-METAL(180)
L2434687-18B	Glass 250ml/8oz unpreserved	B	NA		4.2	Y	Absent		HOLD-WETCHEM()
L2434687-19A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		HOLD-METAL(180)
L2434687-19B	Glass 250ml/8oz unpreserved	B	NA		4.2	Y	Absent		HOLD-WETCHEM()
L2434687-20A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		HOLD-METAL(180)
L2434687-20B	Glass 250ml/8oz unpreserved	B	NA		4.2	Y	Absent		HOLD-WETCHEM()

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**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2434687-21A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	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),SB-TI(180),PB-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L2434687-21B	Plastic 120ml unpreserved	B	NA		4.2	Y	Absent		NYTCL-8270(14),IGNIT-1030(14),TCN-9010(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2434687-21C	Plastic 120ml unpreserved	B	NA		4.2	Y	Absent		NYTCL-8270(14),IGNIT-1030(14),TCN-9010(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2434687-21D	Plastic 250ml unpreserved	B	NA		4.2	Y	Absent		NYTCL-8270(14),IGNIT-1030(14),TCN-9010(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2434687-21X	Plastic 120ml HNO3 preserved Extracts	B	NA		4.2	Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2434687-21X9	Tumble Vessel	B	NA		4.2	Y	Absent		-
L2434687-22A	Vial MeOH preserved	B	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L2434687-22B	Vial water preserved	B	NA		4.2	Y	Absent	20-JUN-24 16:15	NYTCL-8260HLW(14)
L2434687-22C	Vial water preserved	B	NA		4.2	Y	Absent	20-JUN-24 16:15	NYTCL-8260HLW(14)
L2434687-22D	Plastic 120ml unpreserved	B	NA		4.2	Y	Absent		TS(7)
L2434687-22E	Glass 120ml/4oz unpreserved	B	NA		4.2	Y	Absent		NJEPH-TPH-CAT1(14)
L2434687-23A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		HOLD-METAL(180)
L2434687-23B	Glass 250ml/8oz unpreserved	B	NA		4.2	Y	Absent		HOLD-WETCHEM()
L2434687-24A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		HOLD-METAL(180)
L2434687-24B	Glass 250ml/8oz unpreserved	B	NA		4.2	Y	Absent		HOLD-WETCHEM()
L2434687-25A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		HOLD-METAL(180)
L2434687-25B	Glass 250ml/8oz unpreserved	B	NA		4.2	Y	Absent		HOLD-WETCHEM()
L2434687-26A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		HOLD-METAL(180)
L2434687-26B	Glass 250ml/8oz unpreserved	B	NA		4.2	Y	Absent		HOLD-WETCHEM()

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**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2434687-27A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		HOLD-METAL(180)
L2434687-27B	Glass 250ml/8oz unpreserved	B	NA		4.2	Y	Absent		HOLD-WETCHEM()
L2434687-28A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	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),ZN-TI(180),SB-TI(180),CU-TI(180),PB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),K-TI(180),CD-TI(180),CA-TI(180),NA-TI(180)
L2434687-28B	Plastic 120ml unpreserved	B	NA		4.2	Y	Absent		TCN-9010(14),REACTS(14),NYTCL-8270(14),IGNIT-1030(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2434687-28C	Plastic 120ml unpreserved	B	NA		4.2	Y	Absent		TCN-9010(14),REACTS(14),NYTCL-8270(14),IGNIT-1030(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2434687-28D	Plastic 250ml unpreserved	B	NA		4.2	Y	Absent		TCN-9010(14),REACTS(14),NYTCL-8270(14),IGNIT-1030(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2434687-28X	Plastic 120ml HNO3 preserved Extracts	B	NA		4.2	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2434687-28X9	Tumble Vessel	B	NA		4.2	Y	Absent		-
L2434687-29A	Vial MeOH preserved	B	NA		4.2	Y	Absent		NYTCL-8260HLW(14)
L2434687-29B	Vial water preserved	B	NA		4.2	Y	Absent	20-JUN-24 16:15	NYTCL-8260HLW(14)
L2434687-29C	Vial water preserved	B	NA		4.2	Y	Absent	20-JUN-24 16:15	NYTCL-8260HLW(14)
L2434687-29D	Plastic 120ml unpreserved	B	NA		4.2	Y	Absent		TS(7)
L2434687-29E	Glass 120ml/4oz unpreserved	B	NA		4.2	Y	Absent		NJEPH-TPH-CAT1(14)
L2434687-30A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		HOLD-METAL(180)
L2434687-30B	Glass 250ml/8oz unpreserved	B	NA		4.2	Y	Absent		HOLD-WETCHEM()
L2434687-31A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		HOLD-METAL(180)
L2434687-31B	Glass 250ml/8oz unpreserved	B	NA		4.2	Y	Absent		HOLD-WETCHEM()
L2434687-32A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		HOLD-METAL(180)
L2434687-32B	Glass 250ml/8oz unpreserved	B	NA		4.2	Y	Absent		HOLD-WETCHEM()

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**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2434687-33A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		HOLD-METAL(180)
L2434687-33B	Glass 250ml/8oz unpreserved	B	NA		4.2	Y	Absent		HOLD-WETCHEM()
L2434687-34A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		HOLD-METAL(180)
L2434687-34B	Glass 250ml/8oz unpreserved	B	NA		4.2	Y	Absent		HOLD-WETCHEM()
L2434687-35A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		4.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),ZN-TI(180),SE-TI(180),V-TI(180),CO-TI(180),FE-TI(180),MN-TI(180),HG-T(28),MG-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2434687-35B	Plastic 120ml unpreserved	B	NA		4.2	Y	Absent		IGNIT-1030(14),TCN-9010(14),REACTS(14),NYTCL-8270(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2434687-35C	Plastic 120ml unpreserved	B	NA		4.2	Y	Absent		IGNIT-1030(14),TCN-9010(14),REACTS(14),NYTCL-8270(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2434687-35D	Plastic 250ml unpreserved	B	NA		4.2	Y	Absent		IGNIT-1030(14),TCN-9010(14),REACTS(14),NYTCL-8270(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2434687-35X	Plastic 120ml HNO3 preserved Extracts	B	NA		4.2	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2434687-35X9	Tumble Vessel	B	NA		4.2	Y	Absent		-

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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



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**Report Date:** 06/30/24

### 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:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

#### 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:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2434687  
**Report Date:** 06/30/24

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 103 Analysis of Extractable Petroleum Hydrocarbon Compounds (EPH) in Aqueous and Soil/Sediment/Sludge Matrices. New Jersey Department of Environmental Protection, Site Remediation Program, (Version 1.1), Document # NJDEP EPH 10/08, Revision 3, August 2010.
- 107 Alpha Analytical - In-house calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.





## Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 624.1:** 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, NO<sub>2</sub>, NO<sub>3</sub>.

### 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.


 <b>NEW YORK CHAIN OF CUSTODY</b> Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193		<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page 1 <b>1 of 4</b>		Date Rec'd in Lab <b>6/20/24</b>		ALPHA Job # <b>L2434687</b>													
		<b>Client Information</b> Client: Langan Address: 360 West 31st Street, 8th Floor New York, NY 10001 Phone: 212.479.5400 Fax: [blank] Email: npalumbò@langan.com				<b>Project Information</b> Project Name: 145-165 Wolcott Street Project Location: 145-165 Wolcott Street Project #: 170562203 (Use Project name as Project #) <input type="checkbox"/>				<b>Deliverables</b> <input checked="" type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EquiS (1 File) <input type="checkbox"/> EquiS (4 File) <input type="checkbox"/> Other				<b>Billing Information</b> <input checked="" type="checkbox"/> Same as Client Info PO #							
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<b>Other project specific requirements/comments:</b> Copy lgrose@langan.com, and DataManagement@langan.com on laboratory results.				Please specify Metals or TAL.				<table border="1" style="width:100%; text-align: center;"> <tr> <td style="width: 15%;">Group A</td> <td style="width: 15%;">Group B</td> <td style="width: 15%;">Group C</td> <td style="width: 15%;">Group D</td> <td style="width: 15%;">Group E - HOLD</td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> <td style="width: 15%;"></td> </tr> </table>				Group A	Group B	Group C	Group D	Group E - HOLD					
Group A	Group B	Group C	Group D	Group E - HOLD																	
ALPHA Lab ID (Lab Use Only)		Sample ID		Collection Date   Time		Sample Matrix	Sampler's Initials														
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		-02 WC12A-1-2 HOLD				S	LC														
		-03 WC12B-0-1 HOLD				S	LC														
		-04 WC12C-3-4 HOLD				S	LC														
		-05 WC12D-2-3 HOLD				S	LC														
		-06 WC12E-2-3 HOLD				S	LC														
		-07 WC12-COMP-0-4				S	LC														
		-08 WC12C-GRAB-5-7				S	LC														
		-09 WC12A-6-7 HOLD				S	LC														
		-10 WC12B-7-8 HOLD				S	LC														
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type		Preservative													
				Relinquished By: Lisa Cristiano/Langan		Date/Time: 6/19/24 16:39		Received By: Anthony Green		Date/Time: 6/19/24 17:35											
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	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	<b>Project Information</b> Project Name: 145-165 Wolcott Street Project Location: 145-165 Wolcott Street Project #: 170562203 (Use Project name as Project #) <input type="checkbox"/>		<b>Deliverables</b> <input checked="" type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQUiS (1 File) <input type="checkbox"/> EQUiS (4 File) <input type="checkbox"/> Other	<b>Billing Information</b> <input checked="" type="checkbox"/> Same as Client Info PO #										
<b>Client Information</b> Client: Langan Address: 360 West 31st Street, 8th Floor New York, NY 10001 Phone: 212.479.5400 Fax: Email: npalumbo@langan.com		<b>Project Manager:</b> Nicholas Palumbo <b>ALPHAQuote #:</b> <b>Turn-Around Time</b> Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		<b>Regulatory Requirement</b> <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge	<b>Disposal Site Information</b> Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:											
These samples have been previously analyzed by Alpha <input type="checkbox"/> <b>Other project specific requirements/comments:</b> Copy lgrose@langan.com, and DataManagement@langan.com on laboratory results Please specify Metals or TAL.		<b>ANALYSIS</b> Group A    Group B    Group C    Group D <b>GROUP E</b>		<b>Sample Filtration</b> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <b>Preservation</b> <input type="checkbox"/> Lab to do (Please Specify below) Sample Specific Comments												
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	Group A	Group B	Group C	Group D	Group E						
34687	- 11 WC12C-4-5		6/19/2024	12:15	S	LC										
	- 12 WC12D-5-6	HOLD		12:20	S	LC										
	- 13 WC12E-8-9	HOLD		12:25	S	LC										
	- 14 WC12-COMP-4-9			12:30	S	LC	X									
	- 15 WNOTE-GRAB-0-2			14:30	S	LC		X								
	- 16 WNOTE-1-2	HOLD		14:35	S	LC										
	- 17 WNOTE-2-3	HOLD		14:40	S	LC										
	- 18 WNOTE-0-1	HOLD		14:45	S	LC										
	- 19 WNOTE-1-2	HOLD		14:50	S	LC										
	- 20 WNOTE-3-4	HOLD		14:55	S	LC										
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other	Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle	Westboro: Certification No: MA935 Mansfield: Certification No: MA015	Container Type Preservative									Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S <b>TERMS &amp; CONDITIONS.</b>				
Relinquished By: Lisa Cristiano/Langan		Date/Time: 6/19/24 16:35		Received By: Anthony Green		Date/Time: 6/19/24 16:38										
Relinquished By: Anthony Green		Date/Time: 6/20/24 8:10		Received By: Julie		Date/Time: 6/20/24 01:10										
Relinquished By: Anthony Green		Date/Time: 6/20/24 09:10		Received By: Julie		Date/Time: 6/20/24 4:10										

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			3 of 4				
<b>Project Information</b> Project Name: 145-165 Wolcott Street Project Location: 145-165 Wolcott Street Project #: 170562203 (Use Project name as Project #) <input type="checkbox"/>			<b>Deliverables</b> <input checked="" type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other		<b>Billing Information</b> <input checked="" type="checkbox"/> Same as Client Info PO #		
<b>Client Information</b> Client: Langan Address: 360 West 31st Street, 8th Floor New York, NY 10001 Phone: 212.479.5400 Fax: _____ Email: npalumbo@langan.com			<b>Regulatory Requirement</b> <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		<b>Disposal Site Information</b> Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:		
Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:			<b>ANALYSIS</b>				
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Copy lgrose@langan.com, and DataManagement@langan.com on laboratory results Please specify Metals or TAL.			Group A    Group B    Group C    Group D <b>GROUP E - HOLD</b>		<b>Sample Filtration</b> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <b>Preservation</b> <input type="checkbox"/> Lab to do (Please Specify below)		
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date    Time	Sample Matrix	Sampler's Initials	Sample Specific Comments		
34687 -21	WCO7-COMP-0-4	6/19 /2024 15:00	S	LC			
-22	WCO7E-GRAB-6-8	15:30	S	LC			
-23	WCO7B-5-6	15:35	S	LC	HOLD		
-24	WCO7C-6-7	15:40	S	LC	HOLD		
-25	WCO7D-8-9	15:42	S	LC	HOLD		
-26	WCO7E-7-8	15:44	S	LC	HOLD		
-27	WCO7D-4-5	15:45	S	LC	HOLD		
-28	WCO7-COMP-4-9	15:46	S	LC			
-29	WCO7B-GRAB-11-13	16:10	S	LC			
-30	WCO7B-10-11	16:11	S	LC	HOLD		
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other		Container Code: P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle		Westboro: Certification No: MA935 Mansfield: Certification No: MA015		Container Type Preservative	
Relinquished By: Lisa Cristiano/Langan Anthony Green		Date/Time 6/19/24 16:35 6/20/24 01:10		Received By: UNO [Signature] Anthony Green		Date/Time 6/19/24 16:38 JUN 19 2024 01:10 6/20/24 01:10	
Form No: 01-25 (rev. 30-Sept-2013)						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 <a href="#">TERMS &amp; CONDITIONS</a> .	



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			4 of 4	6/20/24	L2434687																																																																																																																																					
<b>Project Information</b> Project Name: 145-165 Wolcott Street Project Location: 145-165 Wolcott Street Project #: 170562203 (Use Project name as Project #) <input type="checkbox"/>			<b>Deliverables</b> <input checked="" type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EQuS (1 File) <input type="checkbox"/> EQuS (4 File) <input type="checkbox"/> Other		<b>Billing Information</b> <input checked="" type="checkbox"/> Same as Client Info PO #																																																																																																																																					
<b>Client Information</b> Client: Langan Address: 360 West 31st Street, 8th Floor New York, NY 10001 Phone: 212.479.5400 Fax: Email: npalumbo@langan.com			<b>Regulatory Requirement</b> <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		<b>Disposal Site Information</b> Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																																																																																																																																					
Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:			<b>ANALYSIS</b>																																																																																																																																							
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: Copy lgrose@langan.com, and DataManagement@langan.com on laboratory results Please specify Metals or TAL.			<b>Sample Filtration</b> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <b>Preservation</b> <input type="checkbox"/> Lab to do (Please Specify below)																																																																																																																																							
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">Group A</th> <th rowspan="2">Group B</th> <th rowspan="2">Group C</th> <th rowspan="2">Group D</th> <th rowspan="2">Group E</th> <th rowspan="2">Sample Specific Comments</th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>34687 -31</td> <td>WC07C-9-10</td> <td>HOLD</td> <td>6/19/2024</td> <td>16:17</td> <td>S</td> <td>LC</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>-32</td> <td>WC02A-10-11</td> <td>HOLD</td> <td></td> <td>16:18</td> <td>S</td> <td>LC</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>-33</td> <td>WC12B-12-13</td> <td>HOLD</td> <td></td> <td>16:19</td> <td>S</td> <td>LC</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>-34</td> <td>WC12B-11-12</td> <td>HOLD</td> <td></td> <td>16:20</td> <td>S</td> <td>LC</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>-35</td> <td>WC19-COMP-9-13</td> <td></td> <td></td> <td>16:25</td> <td>S</td> <td>LC</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>S</td> <td>LC</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>S</td> <td>LC</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>S</td> <td>LC</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>S</td> <td>LC</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>S</td> <td>LC</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Group A	Group B	Group C	Group D	Group E	Sample Specific Comments	Date	Time	34687 -31	WC07C-9-10	HOLD	6/19/2024	16:17	S	LC						-32	WC02A-10-11	HOLD		16:18	S	LC						-33	WC12B-12-13	HOLD		16:19	S	LC						-34	WC12B-11-12	HOLD		16:20	S	LC						-35	WC19-COMP-9-13			16:25	S	LC											S	LC											S	LC											S	LC											S	LC											S	LC						Container Type Preservative	
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Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> 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: Lisa Cristiano/Langan Date/Time: 6/19/24 16:35		Received By: Anthony Green Date/Time: JUN 19 2024 21:05																																																																																																																																					
Form No: 01-25 (rev. 30-Sept-2013)			Relinquished By: Anthony Green Date/Time: 6/20/24 01:10		Received By: Julie Date/Time: 6/20/24 4:10																																																																																																																																					

**145-165 Wolcott Street  
Langan Project No.: 170562203**

**Sample Analysis Reference Sheet**

**Group A**

Part 375/TCL/NJDEP/PADEP SVOCs

Pesticides

Herbicides

PCBs

Part 375/TAL Metals

Hexavalent Chromium

Trivalent Chromium

Total Cyanide

TCLP Metals

RCRA Characteristics

**Group B**

Part 375/TCL VOCs, NJDEP EPH

**Group C**

Part 375/TCL/NJDEP/PADEP SVOCs

Pesticides

Herbicides

PCBs

Part 375/TAL Metals

Hexavalent Chromium

Trivalent Chromium

Total Cyanide

TCLP Metals

RCRA Characteristics

Full TCLP (Minus VOCs)

Paint Filter

**Group D**

Part 375/TCL VOCs, TCLP VOCs, NJDEP EPH

**Group E - HOLD**

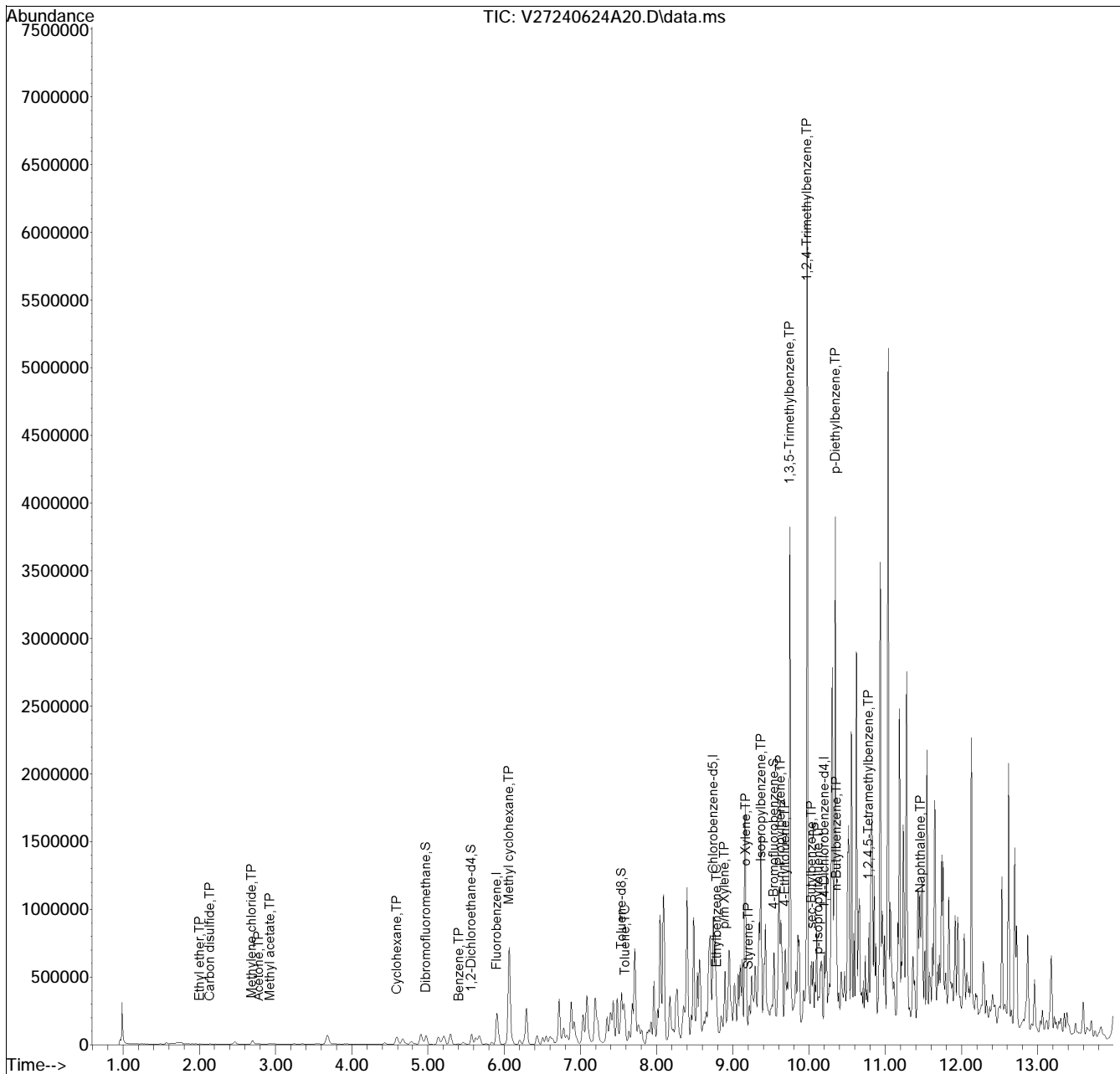
Total and TCLP Metals

Quantitation Report (QT Reviewed)

Data Path : K:\VOA127\2024\240624A\  
 Data File : V27240624A20.D  
 Acq On : 24 Jun 2024 01:58 pm  
 Operator : VOA127:RAW  
 Sample : L2434687-08,31H,4.45,5,0.100,,A  
 Misc : WG1938509,ICAL21177  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 25 10:32:14 2024  
 Quant Method : K:\VOA127\2024\240623A\V127\_240606N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Jun 07 09:03:54 2024  
 Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox24A01.D•

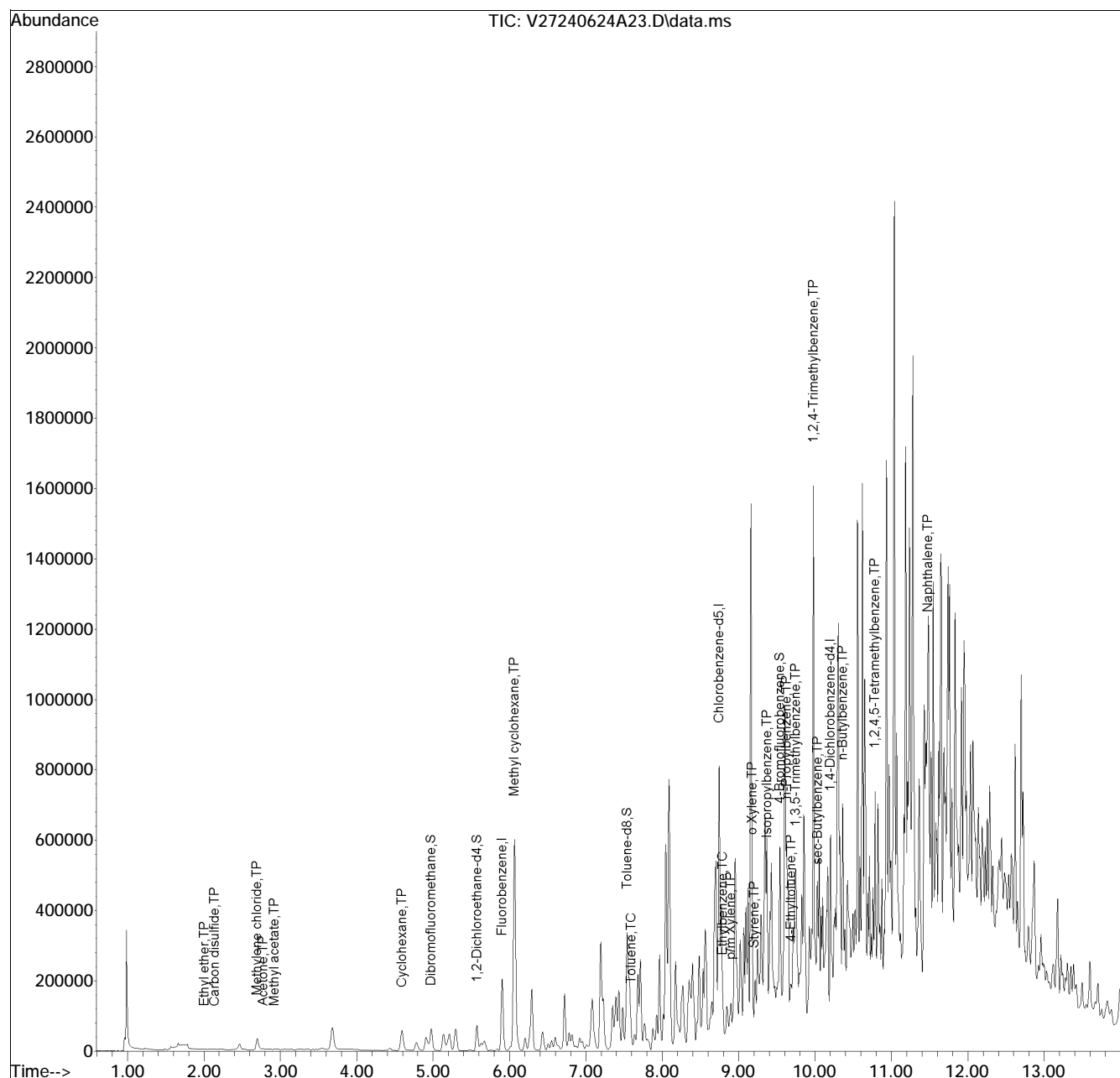


## Quantitation Report (QT Reviewed)

Data Path : K:\VOA127\2024\240624A\  
 Data File : V27240624A23.D  
 Acq On : 24 Jun 2024 03:00 pm  
 Operator : VOA127:RAW  
 Sample : L2434687-29,31H,4.38,5,0.100,,A  
 Misc : WG1938509,ICAL21177  
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jun 25 10:34:25 2024  
 Quant Method : K:\VOA127\2024\240623A\V127\_240606N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Fri Jun 07 09:03:54 2024  
 Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox24A01.D•





JOB: L2435013      REPORT STYLE: Data Usability Report  
0010: Alpha Analytical Report Cover Page - OK  
0015: Sample Cross Reference Summary - OK  
0060: Case Narrative - OK  
0100: Volatiles Cover Page - OK  
0110: Volatiles Sample Results - OK  
0120: Volatiles Method Blank Report - OK  
0130: Volatiles LCS Report - OK  
0180: Semivolatiles Cover Page - OK  
0190: Semivolatiles Sample Results - OK  
0200: Semivolatiles Method Blank Report - OK  
0210: Semivolatiles LCS Report - OK  
0400: Petroleum Cover Page - OK  
0410: Petroleum Sample Results - OK  
0420: Petroleum Method Blank Report - OK  
0430: Petroleum LCS Report - OK  
0460: Petroleum Duplicate Report - OK  
0700: PCBs Cover Page - OK  
0710: PCBs Sample Results - OK  
0720: PCBs Method Blank Report - OK  
0730: PCBs LCS Report - OK  
0900: Pesticides Cover Page - OK  
0910: Pesticides Sample Results - OK  
0920: Pesticides Method Blank Report - OK  
0930: Pesticides LCS Report - OK  
1005: Metals Sample Results - OK  
1010: Metals Method Blank Report - OK  
1020: Metals LCS Report - OK  
1040: Metals Matrix Spike Report - OK  
1050: Metals Duplicate Report - OK  
1180: Inorganics Cover Page - OK  
1190: Ignitability Results - OK  
1200: Wet Chemistry Sample Results - OK  
1210: Wet Chemistry Method Blank Report - OK  
1220: Wet Chemistry LCS Report - OK  
1240: Wet Chemistry Matrix Spike Report - OK  
1250: Wet Chemistry Duplicate Report - OK  
5100: Sample Receipt & Container Information Report - OK  
5200: Glossary - OK  
5400: References - OK  
-----



## ANALYTICAL REPORT

Lab Number:	L2435013
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Nicholas Palumbo
Phone:	(212) 479-5435
Project Name:	145-165 WOLCOTT STREET
Project Number:	170562203
Report Date:	06/30/24

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).

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Eight Walkup Drive, Westborough, MA 01581-1019  
508-898-9220 (Fax) 508-898-9193 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2435013

Report Date: 06/30/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2435013-01	WC04_COMP_0-4	SOIL	145-165 WOLCOTT STREET	06/20/24 11:55	06/20/24
L2435013-02	WC04B_GRAB_2-4	SOIL	145-165 WOLCOTT STREET	06/20/24 11:00	06/20/24
L2435013-03	WC04A_3-4	SOIL	145-165 WOLCOTT STREET	06/20/24 11:30	06/20/24
L2435013-04	WC04B_1-2	SOIL	145-165 WOLCOTT STREET	06/20/24 11:35	06/20/24
L2435013-05	WC04C_2-3	SOIL	145-165 WOLCOTT STREET	06/20/24 11:40	06/20/24
L2435013-06	WC04D_2-3	SOIL	145-165 WOLCOTT STREET	06/20/24 11:45	06/20/24
L2435013-07	WC04A_0-1	SOIL	145-165 WOLCOTT STREET	06/20/24 11:50	06/20/24
L2435013-08	DUP02_COMP_062024	SOIL	145-165 WOLCOTT STREET	06/20/24 00:00	06/20/24
L2435013-09	DUP02_GRAB_062024	SOIL	145-165 WOLCOTT STREET	06/20/24 00:00	06/20/24
L2435013-10	WC09_COMP_0-4	SOIL	145-165 WOLCOTT STREET	06/20/24 14:30	06/20/24
L2435013-11	WC09B_GRAB_2-4	SOIL	145-165 WOLCOTT STREET	06/20/24 14:00	06/20/24
L2435013-12	WC09A_3-4	SOIL	145-165 WOLCOTT STREET	06/20/24 14:05	06/20/24
L2435013-13	WC09B_2-3	SOIL	145-165 WOLCOTT STREET	06/20/24 14:10	06/20/24
L2435013-14	WC09C_1-2	SOIL	145-165 WOLCOTT STREET	06/20/24 14:15	06/20/24
L2435013-15	WC09D_0-1	SOIL	145-165 WOLCOTT STREET	06/20/24 14:20	06/20/24
L2435013-16	WC09D_2-3	SOIL	145-165 WOLCOTT STREET	06/20/24 14:25	06/20/24
L2435013-17	WC17_COMP_4-9	SOIL	145-165 WOLCOTT STREET	06/20/24 15:20	06/20/24
L2435013-18	WC09A_GRAB_7-9	SOIL	145-165 WOLCOTT STREET	06/20/24 14:50	06/20/24
L2435013-19	WC04B_5-6	SOIL	145-165 WOLCOTT STREET	06/20/24 14:55	06/20/24
L2435013-20	WC04C_7-8	SOIL	145-165 WOLCOTT STREET	06/20/24 15:00	06/20/24
L2435013-21	WC04D_4-5	SOIL	145-165 WOLCOTT STREET	06/20/24 15:05	06/20/24
L2435013-22	WC09A_8-9	SOIL	145-165 WOLCOTT STREET	06/20/24 15:10	06/20/24
L2435013-23	WC09B_6-7	SOIL	145-165 WOLCOTT STREET	06/20/24 15:15	06/20/24

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

### 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:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

### Case Narrative (continued)

#### Report Submission

June 30, 2024: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Sample Receipt

L2435013-02: The container for Volatile Organics - High Level was received empty. An aliquot was taken from an unpreserved, inappropriate container and preserved appropriately.

#### Volatile Organics

L2435013-09: The internal standard (IS) response for 1,4-dichlorobenzene-d4 (31%) and the surrogate recovery for 4-bromofluorobenzene (269%) were outside the acceptance criteria due to obvious interferences. A copy of the chromatogram is included as an attachment to this report. The sample was analyzed as a High Level Methanol in order to quantitate results within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis; however, since the IS response was below method criteria, all associated compounds are considered to have a potentially high bias. The results of both analyses are reported. Differences were noted between the results of the Volatile Organics by EPA Method 5035/8260 High and Low Level analyses which have been attributed to sample non-homogeneity.

L2435013-09 (Low Level): The acetone result should be considered estimated due to co-elution with a non-target compound.

L2435013-11R: One or more of the internal standard recoveries is outside the acceptance criteria; however, the internal standard is within criteria for the target compounds; therefore, the results are reported. The surrogate recovery is outside the method acceptance criteria for 4-bromofluorobenzene (133%) due to interference with the Internal Standard.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

### Case Narrative (continued)

#### Semivolatile Organics

L2435013-10D and -17D: The sample has elevated detection limits due to the dilution required by the sample matrix.

#### NJ EPH (Total)

L2435013-02D, -11D, and WG1940109-5D: The sample has an elevated detection limit due to the dilution required by the matrix interferences encountered during the concentration of the sample and the analytical dilution required by the target compounds present in the sample.

L2435013-02D, -09D, -11D, -18D, WG1940029-5D, and WG1940109-5D: The surrogate recoveries are below the acceptance criteria for chloro-octadecane (0%) and o-terphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

WG1940029 and WG1940109: An MS was not analyzed because the dilution required by the elevated concentrations of non-target compounds present in the native sample would have caused the spike compounds to be diluted below the range of calibration.

#### Pesticides

L2435013-10: The internal standard (IS) response for 1-bromo-2-nitrobenzene (1020%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. Since the IS response was above method criteria, all associated compounds reported from this column are considered to have a potentially low bias. The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (4%) and decachlorobiphenyl (27%) due to interference with the Internal Standard.

#### Total Metals

L2435013-01, -08, -10, and -17: 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:  Melissa Sturgis

Title: Technical Director/Representative

Date: 06/30/24

# ORGANICS

# VOLATILES



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-02  
 Client ID: WC04B\_GRAB\_2-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 11:00  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/25/24 18:15  
 Analyst: LAC  
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	310	140	1
1,1-Dichloroethane	ND		ug/kg	62	9.1	1
Chloroform	ND		ug/kg	94	8.8	1
Carbon tetrachloride	ND		ug/kg	62	14.	1
1,2-Dichloropropane	ND		ug/kg	62	7.8	1
Dibromochloromethane	ND		ug/kg	62	8.8	1
1,1,2-Trichloroethane	ND		ug/kg	62	17.	1
Tetrachloroethene	ND		ug/kg	31	12.	1
Chlorobenzene	ND		ug/kg	31	7.9	1
Trichlorofluoromethane	ND		ug/kg	250	44.	1
1,2-Dichloroethane	ND		ug/kg	62	16.	1
1,1,1-Trichloroethane	ND		ug/kg	31	10.	1
Bromodichloromethane	ND		ug/kg	31	6.8	1
trans-1,3-Dichloropropene	ND		ug/kg	62	17.	1
cis-1,3-Dichloropropene	ND		ug/kg	31	9.9	1
1,3-Dichloropropene, Total	ND		ug/kg	31	9.9	1
1,1-Dichloropropene	ND		ug/kg	31	10.	1
Bromoform	ND		ug/kg	250	15.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	31	10.	1
Benzene	ND		ug/kg	31	10.	1
Toluene	ND		ug/kg	62	34.	1
Ethylbenzene	32	J	ug/kg	62	8.8	1
Chloromethane	ND		ug/kg	250	58.	1
Bromomethane	ND		ug/kg	120	36.	1
Vinyl chloride	ND		ug/kg	62	21.	1
Chloroethane	ND		ug/kg	120	28.	1
1,1-Dichloroethene	ND		ug/kg	62	15.	1
trans-1,2-Dichloroethene	ND		ug/kg	94	8.6	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435013**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2435013-02  
 Client ID: WC04B\_GRAB\_2-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 11:00  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	31	8.6	1
1,2-Dichlorobenzene	ND		ug/kg	120	9.0	1
1,3-Dichlorobenzene	ND		ug/kg	120	9.3	1
1,4-Dichlorobenzene	ND		ug/kg	120	11.	1
Methyl tert butyl ether	ND		ug/kg	120	12.	1
p/m-Xylene	590		ug/kg	120	35.	1
o-Xylene	1300		ug/kg	62	18.	1
Xylenes, Total	1900		ug/kg	62	18.	1
cis-1,2-Dichloroethene	ND		ug/kg	62	11.	1
Dibromomethane	ND		ug/kg	120	15.	1
Styrene	ND		ug/kg	62	12.	1
Dichlorodifluoromethane	ND		ug/kg	620	57.	1
Acetone	ND		ug/kg	620	300	1
Carbon disulfide	ND		ug/kg	620	280	1
2-Butanone	ND		ug/kg	620	140	1
Vinyl acetate	ND		ug/kg	620	130	1
4-Methyl-2-pentanone	ND		ug/kg	620	80.	1
1,2,3-Trichloropropane	ND		ug/kg	120	7.9	1
2-Hexanone	ND		ug/kg	620	74.	1
Bromochloromethane	ND		ug/kg	120	13.	1
2,2-Dichloropropane	ND		ug/kg	120	13.	1
1,2-Dibromoethane	ND		ug/kg	62	17.	1
1,3-Dichloropropane	ND		ug/kg	120	10.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	31	8.3	1
Bromobenzene	ND		ug/kg	120	9.1	1
n-Butylbenzene	860		ug/kg	62	10.	1
sec-Butylbenzene	450		ug/kg	62	9.1	1
tert-Butylbenzene	41	J	ug/kg	120	7.4	1
o-Chlorotoluene	810		ug/kg	120	12.	1
p-Chlorotoluene	420		ug/kg	120	6.8	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	190	62.	1
Hexachlorobutadiene	ND		ug/kg	250	10.	1
Isopropylbenzene	290		ug/kg	62	6.8	1
p-Isopropyltoluene	360		ug/kg	62	6.8	1
Naphthalene	190	J	ug/kg	250	41.	1
Acrylonitrile	ND		ug/kg	250	72.	1
Tert-Butyl Alcohol	ND		ug/kg	1200	320	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2435013-02  
**Client ID:** WC04B\_GRAB\_2-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/20/24 11:00  
**Date Received:** 06/20/24  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
n-Propylbenzene	920		ug/kg	62	11.	1
1,2,3-Trichlorobenzene	ND		ug/kg	120	20.	1
1,2,4-Trichlorobenzene	ND		ug/kg	120	17.	1
1,3,5-Trimethylbenzene	890		ug/kg	120	12.	1
1,2,4-Trimethylbenzene	7100		ug/kg	120	21.	1
Methyl Acetate	ND		ug/kg	250	59.	1
Acrolein	ND		ug/kg	1600	350	1
Cyclohexane	540	J	ug/kg	620	34.	1
1,4-Dioxane	ND		ug/kg	5000	2200	1
Freon-113	ND		ug/kg	250	43.	1
p-Diethylbenzene	3000		ug/kg	120	11.	1
p-Ethyltoluene	1400		ug/kg	120	24.	1
1,2,4,5-Tetramethylbenzene	2200		ug/kg	120	12.	1
Ethyl ether	ND		ug/kg	120	21.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	310	89.	1
Methyl cyclohexane	950		ug/kg	250	38.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	86		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-09  
 Client ID: DUP02\_GRAB\_062024  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 00:00  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/25/24 16:04  
 Analyst: AJK  
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
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	0.24	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
1,3-Dichloropropene, Total	ND		ug/kg	0.51	0.16	1
1,1-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	2.0		ug/kg	0.51	0.17	1
Toluene	19		ug/kg	1.0	0.56	1
Ethylbenzene	20		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

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435013**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2435013-09  
 Client ID: DUP02\_GRAB\_062024  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 00:00  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatiles Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	0.58	J	ug/kg	2.0	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	0.96	J	ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	310		ug/kg	2.0	0.57	1
o-Xylene	660	E	ug/kg	1.0	0.30	1
Xylenes, Total	310		ug/kg	2.0	0.57	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	1.2		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.94	1
Acetone	5900	E	ug/kg	10	4.9	1
Carbon disulfide	ND		ug/kg	10	4.6	1
2-Butanone	22		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.51	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.15	1
n-Butylbenzene	280		ug/kg	1.0	0.17	1
sec-Butylbenzene	180		ug/kg	1.0	0.15	1
tert-Butylbenzene	18		ug/kg	2.0	0.12	1
o-Chlorotoluene	510	E	ug/kg	2.0	0.20	1
p-Chlorotoluene	250		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.1	0.17	1
Isopropylbenzene	190		ug/kg	1.0	0.11	1
p-Isopropyltoluene	61		ug/kg	1.0	0.11	1
Naphthalene	100		ug/kg	4.1	0.66	1
Acrylonitrile	ND		ug/kg	4.1	1.2	1
Tert-Butyl Alcohol	ND		ug/kg	20	5.2	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-09  
 Client ID: DUP02\_GRAB\_062024  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 00:00  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	600	E	ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.33	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.28	1
1,3,5-Trimethylbenzene	400	E	ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	2600	E	ug/kg	2.0	0.34	1
Methyl Acetate	ND		ug/kg	4.1	0.97	1
Acrolein	ND		ug/kg	26	5.8	1
Cyclohexane	440	E	ug/kg	10	0.56	1
1,4-Dioxane	ND		ug/kg	82	36.	1
Freon-113	ND		ug/kg	4.1	0.71	1
p-Diethylbenzene	140		ug/kg	2.0	0.18	1
p-Ethyltoluene	540	E	ug/kg	2.0	0.39	1
1,2,4,5-Tetramethylbenzene	390	E	ug/kg	2.0	0.20	1
Ethyl ether	ND		ug/kg	2.0	0.35	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.1	1.4	1
Methyl cyclohexane	670	E	ug/kg	4.1	0.62	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	126		70-130
4-Bromofluorobenzene	<b>269</b>	Q	70-130
Dibromofluoromethane	79		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-09  
 Client ID: DUP02\_GRAB\_062024  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 00:00  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/26/24 10:59  
 Analyst: AJK  
 Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	270	120	1
1,1-Dichloroethane	ND		ug/kg	54	7.8	1
Chloroform	ND		ug/kg	81	7.6	1
Carbon tetrachloride	ND		ug/kg	54	12.	1
1,2-Dichloropropane	ND		ug/kg	54	6.7	1
Dibromochloromethane	ND		ug/kg	54	7.6	1
1,1,2-Trichloroethane	ND		ug/kg	54	14.	1
Tetrachloroethene	ND		ug/kg	27	10.	1
Chlorobenzene	ND		ug/kg	27	6.8	1
Trichlorofluoromethane	ND		ug/kg	220	38.	1
1,2-Dichloroethane	ND		ug/kg	54	14.	1
1,1,1-Trichloroethane	ND		ug/kg	27	9.0	1
Bromodichloromethane	ND		ug/kg	27	5.9	1
trans-1,3-Dichloropropene	ND		ug/kg	54	15.	1
cis-1,3-Dichloropropene	ND		ug/kg	27	8.5	1
1,3-Dichloropropene, Total	ND		ug/kg	27	8.5	1
1,1-Dichloropropene	ND		ug/kg	27	8.6	1
Bromoform	ND		ug/kg	220	13.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	27	9.0	1
Benzene	ND		ug/kg	27	9.0	1
Toluene	ND		ug/kg	54	29.	1
Ethylbenzene	ND		ug/kg	54	7.6	1
Chloromethane	ND		ug/kg	220	50.	1
Bromomethane	66	J	ug/kg	110	31.	1
Vinyl chloride	ND		ug/kg	54	18.	1
Chloroethane	ND		ug/kg	110	24.	1
1,1-Dichloroethene	ND		ug/kg	54	13.	1
trans-1,2-Dichloroethene	ND		ug/kg	81	7.4	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435013**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2435013-09  
 Client ID: DUP02\_GRAB\_062024  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 00:00  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	27	7.4	1
1,2-Dichlorobenzene	ND		ug/kg	110	7.8	1
1,3-Dichlorobenzene	ND		ug/kg	110	8.0	1
1,4-Dichlorobenzene	ND		ug/kg	110	9.2	1
Methyl tert butyl ether	ND		ug/kg	110	11.	1
p/m-Xylene	ND		ug/kg	110	30.	1
o-Xylene	ND		ug/kg	54	16.	1
Xylenes, Total	ND		ug/kg	54	16.	1
cis-1,2-Dichloroethene	ND		ug/kg	54	9.4	1
Dibromomethane	ND		ug/kg	110	13.	1
Styrene	ND		ug/kg	54	10.	1
Dichlorodifluoromethane	ND		ug/kg	540	49.	1
Acetone	ND		ug/kg	540	260	1
Carbon disulfide	ND		ug/kg	540	240	1
2-Butanone	ND		ug/kg	540	120	1
Vinyl acetate	ND		ug/kg	540	120	1
4-Methyl-2-pentanone	ND		ug/kg	540	69.	1
1,2,3-Trichloropropane	ND		ug/kg	110	6.8	1
2-Hexanone	ND		ug/kg	540	64.	1
Bromochloromethane	ND		ug/kg	110	11.	1
2,2-Dichloropropane	ND		ug/kg	110	11.	1
1,2-Dibromoethane	ND		ug/kg	54	15.	1
1,3-Dichloropropane	ND		ug/kg	110	9.0	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	27	7.1	1
Bromobenzene	ND		ug/kg	110	7.8	1
n-Butylbenzene	ND		ug/kg	54	9.0	1
sec-Butylbenzene	ND		ug/kg	54	7.9	1
tert-Butylbenzene	ND		ug/kg	110	6.4	1
o-Chlorotoluene	ND		ug/kg	110	10.	1
p-Chlorotoluene	ND		ug/kg	110	5.8	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	160	54.	1
Hexachlorobutadiene	ND		ug/kg	220	9.1	1
Isopropylbenzene	ND		ug/kg	54	5.9	1
p-Isopropyltoluene	ND		ug/kg	54	5.9	1
Naphthalene	ND		ug/kg	220	35.	1
Acrylonitrile	ND		ug/kg	220	62.	1
Tert-Butyl Alcohol	ND		ug/kg	1100	280	1



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435013**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2435013-09  
 Client ID: DUP02\_GRAB\_062024  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 00:00  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
n-Propylbenzene	ND		ug/kg	54	9.2	1
1,2,3-Trichlorobenzene	ND		ug/kg	110	17.	1
1,2,4-Trichlorobenzene	ND		ug/kg	110	15.	1
1,3,5-Trimethylbenzene	ND		ug/kg	110	10.	1
1,2,4-Trimethylbenzene	ND		ug/kg	110	18.	1
Methyl Acetate	140	J	ug/kg	220	51.	1
Acrolein	ND		ug/kg	1300	300	1
Cyclohexane	ND		ug/kg	540	29.	1
1,4-Dioxane	ND		ug/kg	4300	1900	1
Freon-113	ND		ug/kg	220	37.	1
p-Diethylbenzene	ND		ug/kg	110	9.6	1
p-Ethyltoluene	ND		ug/kg	110	21.	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	110	10.	1
Ethyl ether	ND		ug/kg	110	18.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	270	77.	1
Methyl cyclohexane	ND		ug/kg	220	32.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	117		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	99		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-11  
 Client ID: WC09B\_GRAB\_2-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 14:00  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/25/24 16:30  
 Analyst: LAC  
 Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	8.8	4.0	1
1,1-Dichloroethane	ND		ug/kg	1.8	0.26	1
Chloroform	0.65	J	ug/kg	2.6	0.25	1
Carbon tetrachloride	ND		ug/kg	1.8	0.41	1
1,2-Dichloropropane	ND		ug/kg	1.8	0.22	1
Dibromochloromethane	ND		ug/kg	1.8	0.25	1
1,1,2-Trichloroethane	ND		ug/kg	1.8	0.47	1
Tetrachloroethene	4.7		ug/kg	0.88	0.35	1
Chlorobenzene	ND		ug/kg	0.88	0.22	1
Trichlorofluoromethane	ND		ug/kg	7.1	1.2	1
1,2-Dichloroethane	ND		ug/kg	1.8	0.45	1
1,1,1-Trichloroethane	ND		ug/kg	0.88	0.30	1
Bromodichloromethane	ND		ug/kg	0.88	0.19	1
trans-1,3-Dichloropropene	ND		ug/kg	1.8	0.48	1
cis-1,3-Dichloropropene	ND		ug/kg	0.88	0.28	1
1,3-Dichloropropene, Total	ND		ug/kg	0.88	0.28	1
1,1-Dichloropropene	ND		ug/kg	0.88	0.28	1
Bromoform	ND		ug/kg	7.1	0.44	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.88	0.29	1
Benzene	ND		ug/kg	0.88	0.29	1
Toluene	ND		ug/kg	1.8	0.96	1
Ethylbenzene	ND		ug/kg	1.8	0.25	1
Chloromethane	ND		ug/kg	7.1	1.6	1
Bromomethane	ND		ug/kg	3.5	1.0	1
Vinyl chloride	ND		ug/kg	1.8	0.59	1
Chloroethane	ND		ug/kg	3.5	0.80	1
1,1-Dichloroethene	ND		ug/kg	1.8	0.42	1
trans-1,2-Dichloroethene	ND		ug/kg	2.6	0.24	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435013**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2435013-11  
 Client ID: WC09B\_GRAB\_2-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 14:00  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.88	0.24	1
1,2-Dichlorobenzene	ND		ug/kg	3.5	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	3.5	0.26	1
1,4-Dichlorobenzene	ND		ug/kg	3.5	0.30	1
Methyl tert butyl ether	ND		ug/kg	3.5	0.36	1
p/m-Xylene	1.1	J	ug/kg	3.5	0.99	1
o-Xylene	1.2	J	ug/kg	1.8	0.51	1
Xylenes, Total	2.3	J	ug/kg	1.8	0.51	1
cis-1,2-Dichloroethene	ND		ug/kg	1.8	0.31	1
Dibromomethane	ND		ug/kg	3.5	0.42	1
Styrene	ND		ug/kg	1.8	0.35	1
Dichlorodifluoromethane	ND		ug/kg	18	1.6	1
Carbon disulfide	ND		ug/kg	18	8.0	1
2-Butanone	ND		ug/kg	18	3.9	1
Vinyl acetate	ND		ug/kg	18	3.8	1
4-Methyl-2-pentanone	ND		ug/kg	18	2.3	1
1,2,3-Trichloropropane	ND		ug/kg	3.5	0.22	1
2-Hexanone	ND		ug/kg	18	2.1	1
Bromochloromethane	ND		ug/kg	3.5	0.36	1
2,2-Dichloropropane	ND		ug/kg	3.5	0.36	1
1,2-Dibromoethane	ND		ug/kg	1.8	0.49	1
1,3-Dichloropropane	ND		ug/kg	3.5	0.30	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.88	0.23	1
Bromobenzene	ND		ug/kg	3.5	0.26	1
n-Butylbenzene	ND		ug/kg	1.8	0.30	1
sec-Butylbenzene	ND		ug/kg	1.8	0.26	1
tert-Butylbenzene	ND		ug/kg	3.5	0.21	1
o-Chlorotoluene	ND		ug/kg	3.5	0.34	1
p-Chlorotoluene	ND		ug/kg	3.5	0.19	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	5.3	1.8	1
Hexachlorobutadiene	ND		ug/kg	7.1	0.30	1
Isopropylbenzene	ND		ug/kg	1.8	0.19	1
p-Isopropyltoluene	ND		ug/kg	1.8	0.19	1
Naphthalene	ND		ug/kg	7.1	1.2	1
Acrylonitrile	ND		ug/kg	7.1	2.0	1
Tert-Butyl Alcohol	ND		ug/kg	35	9.1	1
n-Propylbenzene	ND		ug/kg	1.8	0.30	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-11  
 Client ID: WC09B\_GRAB\_2-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 14:00  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,2,3-Trichlorobenzene	ND		ug/kg	3.5	0.57	1
1,2,4-Trichlorobenzene	ND		ug/kg	3.5	0.48	1
1,3,5-Trimethylbenzene	ND		ug/kg	3.5	0.34	1
1,2,4-Trimethylbenzene	0.70	J	ug/kg	3.5	0.59	1
Methyl Acetate	ND		ug/kg	7.1	1.7	1
Acrolein	ND		ug/kg	44	10.	1
Cyclohexane	1.4	J	ug/kg	18	0.96	1
1,4-Dioxane	ND		ug/kg	140	62.	1
Freon-113	ND		ug/kg	7.1	1.2	1
p-Diethylbenzene	0.32	J	ug/kg	3.5	0.31	1
p-Ethyltoluene	ND		ug/kg	3.5	0.68	1
1,2,4,5-Tetramethylbenzene	ND		ug/kg	3.5	0.34	1
Ethyl ether	ND		ug/kg	3.5	0.60	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	8.8	2.5	1
Methyl cyclohexane	1.9	J	ug/kg	7.1	1.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	106		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-11 R  
 Client ID: WC09B\_GRAB\_2-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 14:00  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/26/24 10:31  
 Analyst: AJK  
 Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Acetone	8.8	J	ug/kg	15	7.1	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	114		70-130
4-Bromofluorobenzene	<b>133</b>	Q	70-130
Dibromofluoromethane	104		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-18  
 Client ID: WC09A\_GRAB\_7-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 14:50  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/26/24 13:00  
 Analyst: LAC  
 Percent Solids: 92%  
 TCLP/SPLP Ext. Date: 06/25/24 05:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>TCLP Volatiles by EPA 1311 - Westborough Lab</b>						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	8.5		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	119		70-130
Toluene-d8	107		70-130
4-Bromofluorobenzene	107		70-130
dibromofluoromethane	102		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-18 D2  
 Client ID: WC09A\_GRAB\_7-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 14:50  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/26/24 12:37  
 Analyst: AJK  
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	1400	630	5
1,1-Dichloroethane	ND		ug/kg	280	40.	5
Chloroform	ND		ug/kg	410	38.	5
Carbon tetrachloride	ND		ug/kg	280	63.	5
1,2-Dichloropropane	ND		ug/kg	280	34.	5
Dibromochloromethane	ND		ug/kg	280	38.	5
1,1,2-Trichloroethane	ND		ug/kg	280	74.	5
Tetrachloroethene	ND		ug/kg	140	54.	5
Chlorobenzene	ND		ug/kg	140	35.	5
Trichlorofluoromethane	ND		ug/kg	1100	190	5
1,2-Dichloroethane	ND		ug/kg	280	71.	5
1,1,1-Trichloroethane	ND		ug/kg	140	46.	5
Bromodichloromethane	ND		ug/kg	140	30.	5
trans-1,3-Dichloropropene	ND		ug/kg	280	75.	5
cis-1,3-Dichloropropene	ND		ug/kg	140	44.	5
1,3-Dichloropropene, Total	ND		ug/kg	140	44.	5
1,1-Dichloropropene	ND		ug/kg	140	44.	5
Bromoform	ND		ug/kg	1100	68.	5
1,1,2,2-Tetrachloroethane	ND		ug/kg	140	46.	5
Benzene	740		ug/kg	140	46.	5
Toluene	1700		ug/kg	280	150	5
Ethylbenzene	1500		ug/kg	280	39.	5
Chloromethane	ND		ug/kg	1100	260	5
Bromomethane	ND		ug/kg	550	160	5
Vinyl chloride	ND		ug/kg	280	92.	5
Chloroethane	ND		ug/kg	550	120	5
1,1-Dichloroethene	ND		ug/kg	280	66.	5
trans-1,2-Dichloroethene	ND		ug/kg	410	38.	5

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435013**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2435013-18 D2  
 Client ID: WC09A\_GRAB\_7-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 14:50  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatiles Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	140	38.	5
1,2-Dichlorobenzene	ND		ug/kg	550	40.	5
1,3-Dichlorobenzene	ND		ug/kg	550	41.	5
1,4-Dichlorobenzene	ND		ug/kg	550	47.	5
Methyl tert butyl ether	ND		ug/kg	550	55.	5
p/m-Xylene	16000		ug/kg	550	150	5
o-Xylene	32000		ug/kg	280	80.	5
Xylenes, Total	48000		ug/kg	280	80.	5
cis-1,2-Dichloroethene	ND		ug/kg	280	48.	5
Dibromomethane	ND		ug/kg	550	66.	5
Styrene	ND		ug/kg	280	54.	5
Dichlorodifluoromethane	ND		ug/kg	2800	250	5
Acetone	ND		ug/kg	2800	1300	5
Carbon disulfide	ND		ug/kg	2800	1200	5
2-Butanone	ND		ug/kg	2800	610	5
Vinyl acetate	ND		ug/kg	2800	590	5
4-Methyl-2-pentanone	ND		ug/kg	2800	350	5
1,2,3-Trichloropropane	ND		ug/kg	550	35.	5
2-Hexanone	ND		ug/kg	2800	320	5
Bromochloromethane	ND		ug/kg	550	56.	5
2,2-Dichloropropane	ND		ug/kg	550	56.	5
1,2-Dibromoethane	ND		ug/kg	280	77.	5
1,3-Dichloropropane	ND		ug/kg	550	46.	5
1,1,1,2-Tetrachloroethane	ND		ug/kg	140	36.	5
Bromobenzene	ND		ug/kg	550	40.	5
n-Butylbenzene	7400		ug/kg	280	46.	5
sec-Butylbenzene	2200		ug/kg	280	40.	5
tert-Butylbenzene	110	J	ug/kg	550	32.	5
o-Chlorotoluene	ND		ug/kg	550	53.	5
p-Chlorotoluene	ND		ug/kg	550	30.	5
1,2-Dibromo-3-chloropropane	ND		ug/kg	830	280	5
Hexachlorobutadiene	ND		ug/kg	1100	46.	5
Isopropylbenzene	4700		ug/kg	280	30.	5
p-Isopropyltoluene	930		ug/kg	280	30.	5
Naphthalene	670	J	ug/kg	1100	180	5
Acrylonitrile	ND		ug/kg	1100	320	5
Tert-Butyl Alcohol	ND		ug/kg	5500	1400	5



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-18 D2  
 Client ID: WC09A\_GRAB\_7-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 14:50  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
n-Propylbenzene	16000		ug/kg	280	47.	5
1,2,3-Trichlorobenzene	ND		ug/kg	550	89.	5
1,2,4-Trichlorobenzene	ND		ug/kg	550	75.	5
1,3,5-Trimethylbenzene	28000		ug/kg	550	53.	5
1,2,4-Trimethylbenzene	100000	E	ug/kg	550	92.	5
Methyl Acetate	ND		ug/kg	1100	260	5
Acrolein	ND		ug/kg	6900	1600	5
Cyclohexane	6000		ug/kg	2800	150	5
1,4-Dioxane	ND		ug/kg	22000	9700	5
Freon-113	ND		ug/kg	1100	190	5
p-Diethylbenzene	43000		ug/kg	550	49.	5
p-Ethyltoluene	29000		ug/kg	550	100	5
1,2,4,5-Tetramethylbenzene	14000		ug/kg	550	53.	5
Ethyl ether	ND		ug/kg	550	94.	5
trans-1,4-Dichloro-2-butene	ND		ug/kg	1400	390	5
Methyl cyclohexane	19000		ug/kg	1100	170	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	95		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-18 D  
 Client ID: WC09A\_GRAB\_7-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 14:50  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/25/24 18:41  
 Analyst: LAC  
 Percent Solids: 92%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
1,2,4-Trimethylbenzene	99000		ug/kg	1100	180	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	107		70-130
Dibromofluoromethane	99		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/25/24 10:49  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09,11 Batch: WG1939577-5					
Methylene chloride	2.8	J	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
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-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

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/25/24 10:49  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09,11 Batch: WG1939577-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	0.59	J	ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
Xylenes, Total	0.59	J	ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Dibromomethane	ND		ug/kg	2.0	0.24
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
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
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
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/25/24 10:49  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09,11 Batch: WG1939577-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
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
Acrylonitrile	ND		ug/kg	4.0	1.2
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
Acrolein	ND		ug/kg	25	5.6
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Methyl cyclohexane	ND		ug/kg	4.0	0.60

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/25/24 10:49  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 09,11 Batch: WG1939577-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/25/24 10:49  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02,18 Batch: WG1939582-5					
Methylene chloride	140	J	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
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
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	ND		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

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/25/24 10:49  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02,18 Batch: WG1939582-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
1,4-Dichlorobenzene	ND		ug/kg	100	8.6
Methyl tert butyl ether	ND		ug/kg	100	10.
p/m-Xylene	29	J	ug/kg	100	28.
o-Xylene	ND		ug/kg	50	14.
Xylenes, Total	29	J	ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Dibromomethane	ND		ug/kg	100	12.
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
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6
p-Chlorotoluene	ND		ug/kg	100	5.4



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/25/24 10:49  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02,18 Batch: WG1939582-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
Tert-Butyl Alcohol	ND		ug/kg	1000	260
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
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.
Acrolein	ND		ug/kg	1200	280
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.
Methyl cyclohexane	ND		ug/kg	200	30.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis  
 Batch Quality Control**

Analytical Method: 1,8260D  
 Analytical Date: 06/25/24 10:49  
 Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 02,18 Batch: WG1939582-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	87		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/26/24 05:03  
Analyst: MCM  
TCLP/SPLP Extraction Date: 06/25/24 05:00

Extraction Date: 06/25/24 05:00

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 18 Batch: WG1939614-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	116		70-130
dibromofluoromethane	105		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/26/24 10:07  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 18 Batch: WG1940145-5					
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
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
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	ND		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

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/26/24 10:07  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 18 Batch: WG1940145-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
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.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Dibromomethane	ND		ug/kg	100	12.
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
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6
p-Chlorotoluene	ND		ug/kg	100	5.4

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/26/24 10:07  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 18 Batch: WG1940145-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
Tert-Butyl Alcohol	ND		ug/kg	1000	260
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
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.
Acrolein	ND		ug/kg	1200	280
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	36	J	ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.
Methyl cyclohexane	ND		ug/kg	200	30.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/26/24 10:07  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 18 Batch: WG1940145-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	99		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/26/24 10:04  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 11 Batch: WG1940224-5					
Methylene chloride	2.6	J	ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.52	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-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	1.4	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



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/26/24 10:04  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 11 Batch: WG1940224-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
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
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Dibromomethane	ND		ug/kg	2.0	0.24
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
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
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
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/26/24 10:04  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 11 Batch: WG1940224-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
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
Acrylonitrile	ND		ug/kg	4.0	1.2
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
Acrolein	ND		ug/kg	25	5.6
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Methyl cyclohexane	ND		ug/kg	4.0	0.60

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/26/24 10:04  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 11 Batch: WG1940224-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	101		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/26/24 10:04  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 09 Batch: WG1940226-5					
Methylene chloride	130	J	ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	26	J	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
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
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	70	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

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/26/24 10:04  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 09 Batch: WG1940226-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
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.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Dibromomethane	ND		ug/kg	100	12.
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
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6
p-Chlorotoluene	ND		ug/kg	100	5.4

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/26/24 10:04  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 09 Batch: WG1940226-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
Tert-Butyl Alcohol	ND		ug/kg	1000	260
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
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.
Acrolein	ND		ug/kg	1200	280
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.
Methyl cyclohexane	ND		ug/kg	200	30.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/26/24 10:04  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 09 Batch: WG1940226-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	118		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	100		70-130

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09,11 Batch: WG1939577-3 WG1939577-4								
Methylene chloride	87		84		70-130	4		30
1,1-Dichloroethane	83		79		70-130	5		30
Chloroform	87		84		70-130	4		30
Carbon tetrachloride	91		87		70-130	4		30
1,2-Dichloropropane	86		83		70-130	4		30
Dibromochloromethane	100		98		70-130	2		30
1,1,2-Trichloroethane	88		85		70-130	3		30
Tetrachloroethene	81		78		70-130	4		30
Chlorobenzene	91		88		70-130	3		30
Trichlorofluoromethane	86		82		70-139	5		30
1,2-Dichloroethane	82		80		70-130	2		30
1,1,1-Trichloroethane	91		88		70-130	3		30
Bromodichloromethane	91		88		70-130	3		30
trans-1,3-Dichloropropene	84		83		70-130	1		30
cis-1,3-Dichloropropene	80		77		70-130	4		30
1,1-Dichloropropene	77		73		70-130	5		30
Bromoform	88		87		70-130	1		30
1,1,2,2-Tetrachloroethane	88		86		70-130	2		30
Benzene	87		84		70-130	4		30
Toluene	87		84		70-130	4		30
Ethylbenzene	89		85		70-130	5		30
Chloromethane	84		79		52-130	6		30
Bromomethane	61		57		57-147	7		30



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2435013

**Project Number:** 170562203

**Report Date:** 06/30/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09,11 Batch: WG1939577-3 WG1939577-4								
Vinyl chloride	70		66	Q	67-130	6		30
Chloroethane	72		70		50-151	3		30
1,1-Dichloroethene	81		78		65-135	4		30
trans-1,2-Dichloroethene	88		84		70-130	5		30
Trichloroethene	89		87		70-130	2		30
1,2-Dichlorobenzene	90		87		70-130	3		30
1,3-Dichlorobenzene	89		85		70-130	5		30
1,4-Dichlorobenzene	89		85		70-130	5		30
Methyl tert butyl ether	88		88		66-130	0		30
p/m-Xylene	86		82		70-130	5		30
o-Xylene	85		81		70-130	5		30
cis-1,2-Dichloroethene	90		86		70-130	5		30
Dibromomethane	91		90		70-130	1		30
Styrene	86		82		70-130	5		30
Dichlorodifluoromethane	78		74		30-146	5		30
Acetone	100		101		54-140	1		30
Carbon disulfide	82		78		59-130	5		30
2-Butanone	103		108		70-130	5		30
Vinyl acetate	107		100		70-130	7		30
4-Methyl-2-pentanone	86		88		70-130	2		30
1,2,3-Trichloropropane	81		81		68-130	0		30
2-Hexanone	104		105		70-130	1		30
Bromochloromethane	102		98		70-130	4		30

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2435013

**Project Number:** 170562203

**Report Date:** 06/30/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09,11 Batch: WG1939577-3 WG1939577-4								
2,2-Dichloropropane	80		76		70-130	5		30
1,2-Dibromoethane	97		96		70-130	1		30
1,3-Dichloropropane	87		86		69-130	1		30
1,1,1,2-Tetrachloroethane	92		89		70-130	3		30
Bromobenzene	86		83		70-130	4		30
n-Butylbenzene	90		86		70-130	5		30
sec-Butylbenzene	90		87		70-130	3		30
tert-Butylbenzene	91		88		70-130	3		30
o-Chlorotoluene	89		86		70-130	3		30
p-Chlorotoluene	88		84		70-130	5		30
1,2-Dibromo-3-chloropropane	94		94		68-130	0		30
Hexachlorobutadiene	76		73		67-130	4		30
Isopropylbenzene	82		80		70-130	2		30
p-Isopropyltoluene	85		81		70-130	5		30
Naphthalene	103		101		70-130	2		30
Acrylonitrile	92		95		70-130	3		30
Tert-Butyl Alcohol	96		99		70-130	3		30
n-Propylbenzene	89		85		70-130	5		30
1,2,3-Trichlorobenzene	88		85		70-130	3		30
1,2,4-Trichlorobenzene	89		85		70-130	5		30
1,3,5-Trimethylbenzene	90		87		70-130	3		30
1,2,4-Trimethylbenzene	88		84		70-130	5		30
Methyl Acetate	103		104		51-146	1		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 09,11 Batch: WG1939577-3 WG1939577-4								
Acrolein	120		118		70-130	2		30
Cyclohexane	90		86		59-142	5		30
1,4-Dioxane	98		99		65-136	1		30
Freon-113	90		86		50-139	5		30
p-Diethylbenzene	89		85		70-130	5		30
p-Ethyltoluene	90		87		70-130	3		30
1,2,4,5-Tetramethylbenzene	95		91		70-130	4		30
Ethyl ether	90		88		67-130	2		30
trans-1,4-Dichloro-2-butene	87		87		70-130	0		30
Methyl cyclohexane	85		81		70-130	5		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	87		87		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	105		104		70-130



## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2435013

**Project Number:** 170562203

**Report Date:** 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02,18 Batch: WG1939582-3 WG1939582-4								
Methylene chloride	87		84		70-130	4		30
1,1-Dichloroethane	83		79		70-130	5		30
Chloroform	87		84		70-130	4		30
Carbon tetrachloride	91		87		70-130	4		30
1,2-Dichloropropane	86		83		70-130	4		30
Dibromochloromethane	100		98		70-130	2		30
1,1,2-Trichloroethane	88		85		70-130	3		30
Tetrachloroethene	81		78		70-130	4		30
Chlorobenzene	91		88		70-130	3		30
Trichlorofluoromethane	86		82		70-139	5		30
1,2-Dichloroethane	82		80		70-130	2		30
1,1,1-Trichloroethane	91		88		70-130	3		30
Bromodichloromethane	91		88		70-130	3		30
trans-1,3-Dichloropropene	84		83		70-130	1		30
cis-1,3-Dichloropropene	80		77		70-130	4		30
1,1-Dichloropropene	77		73		70-130	5		30
Bromoform	88		87		70-130	1		30
1,1,1,2-Tetrachloroethane	88		86		70-130	2		30
Benzene	87		84		70-130	4		30
Toluene	87		84		70-130	4		30
Ethylbenzene	89		85		70-130	5		30
Chloromethane	84		79		52-130	6		30
Bromomethane	61		57		57-147	7		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02,18 Batch: WG1939582-3 WG1939582-4								
Vinyl chloride	70		66	Q	67-130	6		30
Chloroethane	72		70		50-151	3		30
1,1-Dichloroethene	81		78		65-135	4		30
trans-1,2-Dichloroethene	88		84		70-130	5		30
Trichloroethene	89		87		70-130	2		30
1,2-Dichlorobenzene	90		87		70-130	3		30
1,3-Dichlorobenzene	89		85		70-130	5		30
1,4-Dichlorobenzene	89		85		70-130	5		30
Methyl tert butyl ether	88		88		66-130	0		30
p/m-Xylene	86		82		70-130	5		30
o-Xylene	85		81		70-130	5		30
cis-1,2-Dichloroethene	90		86		70-130	5		30
Dibromomethane	91		90		70-130	1		30
Styrene	86		82		70-130	5		30
Dichlorodifluoromethane	78		74		30-146	5		30
Acetone	100		101		54-140	1		30
Carbon disulfide	82		78		59-130	5		30
2-Butanone	103		108		70-130	5		30
Vinyl acetate	107		100		70-130	7		30
4-Methyl-2-pentanone	86		88		70-130	2		30
1,2,3-Trichloropropane	81		81		68-130	0		30
2-Hexanone	104		105		70-130	1		30
Bromochloromethane	102		98		70-130	4		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02,18 Batch: WG1939582-3 WG1939582-4								
2,2-Dichloropropane	80		76		70-130	5		30
1,2-Dibromoethane	97		96		70-130	1		30
1,3-Dichloropropane	87		86		69-130	1		30
1,1,1,2-Tetrachloroethane	92		89		70-130	3		30
Bromobenzene	86		83		70-130	4		30
n-Butylbenzene	90		86		70-130	5		30
sec-Butylbenzene	90		87		70-130	3		30
tert-Butylbenzene	91		88		70-130	3		30
o-Chlorotoluene	89		86		70-130	3		30
p-Chlorotoluene	88		84		70-130	5		30
1,2-Dibromo-3-chloropropane	94		94		68-130	0		30
Hexachlorobutadiene	76		73		67-130	4		30
Isopropylbenzene	82		80		70-130	2		30
p-Isopropyltoluene	85		81		70-130	5		30
Naphthalene	103		101		70-130	2		30
Acrylonitrile	92		95		70-130	3		30
Tert-Butyl Alcohol	96		99		70-130	3		30
n-Propylbenzene	89		85		70-130	5		30
1,2,3-Trichlorobenzene	88		85		70-130	3		30
1,2,4-Trichlorobenzene	89		85		70-130	5		30
1,3,5-Trimethylbenzene	90		87		70-130	3		30
1,2,4-Trimethylbenzene	88		84		70-130	5		30
Methyl Acetate	103		104		51-146	1		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 02,18 Batch: WG1939582-3 WG1939582-4								
Acrolein	120		118		70-130	2		30
Cyclohexane	90		86		59-142	5		30
1,4-Dioxane	98		99		65-136	1		30
Freon-113	90		86		50-139	5		30
p-Diethylbenzene	89		85		70-130	5		30
p-Ethyltoluene	90		87		70-130	3		30
1,2,4,5-Tetramethylbenzene	95		91		70-130	4		30
Ethyl ether	90		88		67-130	2		30
trans-1,4-Dichloro-2-butene	87		87		70-130	0		30
Methyl cyclohexane	85		81		70-130	5		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	87		87		70-130
Toluene-d8	98		98		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	104		104		70-130



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 18 Batch: WG1939614-3 WG1939614-4								
Chloroform	100		100		70-130	0		20
Carbon tetrachloride	94		93		63-132	1		20
Tetrachloroethene	89		88		70-130	1		20
Chlorobenzene	99		99		75-130	0		25
1,2-Dichloroethane	110		110		70-130	0		20
Benzene	100		100		70-130	0		25
Vinyl chloride	98		96		55-140	2		20
1,1-Dichloroethene	95		94		61-145	1		25
Trichloroethene	97		98		70-130	1		25
1,4-Dichlorobenzene	92		94		70-130	2		20
2-Butanone	130		140	Q	63-138	7		20

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	110		109		70-130
Toluene-d8	110		110		70-130
4-Bromofluorobenzene	105		109		70-130
dibromofluoromethane	102		99		70-130





## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS	Qual	LCS	Qual	%Recovery	RPD	Qual	RPD
	%Recovery		%Recovery		Limits			Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 18 Batch: WG1940145-3 WG1940145-4								
Methylene chloride	108		108		70-130	0		30
1,1-Dichloroethane	113		109		70-130	4		30
Chloroform	106		105		70-130	1		30
Carbon tetrachloride	109		106		70-130	3		30
1,2-Dichloropropane	106		106		70-130	0		30
Dibromochloromethane	91		93		70-130	2		30
1,1,2-Trichloroethane	98		102		70-130	4		30
Tetrachloroethene	113		109		70-130	4		30
Chlorobenzene	104		103		70-130	1		30
Trichlorofluoromethane	121		116		70-139	4		30
1,2-Dichloroethane	98		101		70-130	3		30
1,1,1-Trichloroethane	107		104		70-130	3		30
Bromodichloromethane	97		97		70-130	0		30
trans-1,3-Dichloropropene	96		98		70-130	2		30
cis-1,3-Dichloropropene	100		101		70-130	1		30
1,1-Dichloropropene	114		111		70-130	3		30
Bromoform	82		88		70-130	7		30
1,1,2,2-Tetrachloroethane	89		93		70-130	4		30
Benzene	108		106		70-130	2		30
Toluene	102		101		70-130	1		30
Ethylbenzene	109		106		70-130	3		30
Chloromethane	125		116		52-130	7		30
Bromomethane	126		125		57-147	1		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 18 Batch: WG1940145-3 WG1940145-4								
Vinyl chloride	128		120		67-130	6		30
Chloroethane	132		128		50-151	3		30
1,1-Dichloroethene	116		111		65-135	4		30
trans-1,2-Dichloroethene	110		106		70-130	4		30
Trichloroethene	112		110		70-130	2		30
1,2-Dichlorobenzene	103		103		70-130	0		30
1,3-Dichlorobenzene	106		106		70-130	0		30
1,4-Dichlorobenzene	106		105		70-130	1		30
Methyl tert butyl ether	95		99		66-130	4		30
p/m-Xylene	110		108		70-130	2		30
o-Xylene	108		106		70-130	2		30
cis-1,2-Dichloroethene	107		104		70-130	3		30
Dibromomethane	93		99		70-130	6		30
Styrene	106		106		70-130	0		30
Dichlorodifluoromethane	120		112		30-146	7		30
Acetone	90		105		54-140	15		30
Carbon disulfide	121		117		59-130	3		30
2-Butanone	82		93		70-130	13		30
Vinyl acetate	90		92		70-130	2		30
4-Methyl-2-pentanone	81		91		70-130	12		30
1,2,3-Trichloropropane	90		98		68-130	9		30
2-Hexanone	77		86		70-130	11		30
Bromochloromethane	102		102		70-130	0		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 18 Batch: WG1940145-3 WG1940145-4								
2,2-Dichloropropane	106		104		70-130	2		30
1,2-Dibromoethane	91		96		70-130	5		30
1,3-Dichloropropane	98		102		69-130	4		30
1,1,1,2-Tetrachloroethane	100		100		70-130	0		30
Bromobenzene	100		99		70-130	1		30
n-Butylbenzene	122		117		70-130	4		30
sec-Butylbenzene	116		111		70-130	4		30
tert-Butylbenzene	112		106		70-130	6		30
o-Chlorotoluene	111		107		70-130	4		30
p-Chlorotoluene	108		106		70-130	2		30
1,2-Dibromo-3-chloropropane	75		86		68-130	14		30
Hexachlorobutadiene	119		114		67-130	4		30
Isopropylbenzene	111		106		70-130	5		30
p-Isopropyltoluene	115		110		70-130	4		30
Naphthalene	91		97		70-130	6		30
Acrylonitrile	95		98		70-130	3		30
Tert-Butyl Alcohol	73		85		70-130	15		30
n-Propylbenzene	114		110		70-130	4		30
1,2,3-Trichlorobenzene	105		108		70-130	3		30
1,2,4-Trichlorobenzene	110		109		70-130	1		30
1,3,5-Trimethylbenzene	110		107		70-130	3		30
1,2,4-Trimethylbenzene	109		107		70-130	2		30
Methyl Acetate	101		110		51-146	9		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 18 Batch: WG1940145-3 WG1940145-4								
Acrolein	227	Q	244	Q	70-130	7		30
Cyclohexane	122		116		59-142	5		30
1,4-Dioxane	76		89		65-136	16		30
Freon-113	124		118		50-139	5		30
p-Diethylbenzene	115		111		70-130	4		30
p-Ethyltoluene	114		109		70-130	4		30
1,2,4,5-Tetramethylbenzene	108		105		70-130	3		30
Ethyl ether	103		104		67-130	1		30
trans-1,4-Dichloro-2-butene	86		91		70-130	6		30
Methyl cyclohexane	122		116		70-130	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	98		100		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	94		94		70-130
Dibromofluoromethane	98		100		70-130



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 11 Batch: WG1940224-3 WG1940224-4								
Methylene chloride	85		72		70-130	17		30
1,1-Dichloroethane	103		91		70-130	12		30
Chloroform	100		92		70-130	8		30
Carbon tetrachloride	96		83		70-130	15		30
1,2-Dichloropropane	98		89		70-130	10		30
Dibromochloromethane	91		86		70-130	6		30
1,1,2-Trichloroethane	102		99		70-130	3		30
Tetrachloroethene	92		84		70-130	9		30
Chlorobenzene	94		88		70-130	7		30
Trichlorofluoromethane	90		73		70-139	21		30
1,2-Dichloroethane	103		97		70-130	6		30
1,1,1-Trichloroethane	104		91		70-130	13		30
Bromodichloromethane	96		88		70-130	9		30
trans-1,3-Dichloropropene	107		102		70-130	5		30
cis-1,3-Dichloropropene	97		91		70-130	6		30
1,1-Dichloropropene	96		85		70-130	12		30
Bromoform	78		80		70-130	3		30
1,1,2,2-Tetrachloroethane	101		100		70-130	1		30
Benzene	99		90		70-130	10		30
Toluene	96		88		70-130	9		30
Ethylbenzene	100		93		70-130	7		30
Chloromethane	96		86		52-130	11		30
Bromomethane	76		62		57-147	20		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 11 Batch: WG1940224-3 WG1940224-4								
Vinyl chloride	102		82		67-130	22		30
Chloroethane	94		75		50-151	22		30
1,1-Dichloroethene	87		71		65-135	20		30
trans-1,2-Dichloroethene	95		80		70-130	17		30
Trichloroethene	101		93		70-130	8		30
1,2-Dichlorobenzene	94		89		70-130	5		30
1,3-Dichlorobenzene	95		90		70-130	5		30
1,4-Dichlorobenzene	96		90		70-130	6		30
Methyl tert butyl ether	110		101		66-130	9		30
p/m-Xylene	96		88		70-130	9		30
o-Xylene	93		87		70-130	7		30
cis-1,2-Dichloroethene	94		81		70-130	15		30
Dibromomethane	95		90		70-130	5		30
Styrene	98		92		70-130	6		30
Dichlorodifluoromethane	99		82		30-146	19		30
Acetone	96		90		54-140	6		30
Carbon disulfide	90		72		59-130	22		30
2-Butanone	100		99		70-130	1		30
Vinyl acetate	104		96		70-130	8		30
4-Methyl-2-pentanone	96		96		70-130	0		30
1,2,3-Trichloropropane	105		103		68-130	2		30
2-Hexanone	100		101		70-130	1		30
Bromochloromethane	88		80		70-130	10		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 11 Batch: WG1940224-3 WG1940224-4								
2,2-Dichloropropane	107		94		70-130	13		30
1,2-Dibromoethane	92		92		70-130	0		30
1,3-Dichloropropane	102		100		69-130	2		30
1,1,1,2-Tetrachloroethane	92		87		70-130	6		30
Bromobenzene	88		84		70-130	5		30
n-Butylbenzene	109		103		70-130	6		30
sec-Butylbenzene	99		93		70-130	6		30
tert-Butylbenzene	94		87		70-130	8		30
o-Chlorotoluene	104		97		70-130	7		30
p-Chlorotoluene	102		97		70-130	5		30
1,2-Dibromo-3-chloropropane	85		83		68-130	2		30
Hexachlorobutadiene	81		73		67-130	10		30
Isopropylbenzene	96		91		70-130	5		30
p-Isopropyltoluene	96		90		70-130	6		30
Naphthalene	92		92		70-130	0		30
Acrylonitrile	99		93		70-130	6		30
Tert-Butyl Alcohol	131	Q	129		70-130	2		30
n-Propylbenzene	104		98		70-130	6		30
1,2,3-Trichlorobenzene	88		85		70-130	3		30
1,2,4-Trichlorobenzene	90		87		70-130	3		30
1,3,5-Trimethylbenzene	99		93		70-130	6		30
1,2,4-Trimethylbenzene	99		94		70-130	5		30
Methyl Acetate	114		104		51-146	9		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2435013

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 11 Batch: WG1940224-3 WG1940224-4								
Acrolein	89		78		70-130	13		30
Cyclohexane	96		87		59-142	10		30
1,4-Dioxane	90		91		65-136	1		30
Freon-113	91		73		50-139	22		30
p-Diethylbenzene	98		92		70-130	6		30
p-Ethyltoluene	99		93		70-130	6		30
1,2,4,5-Tetramethylbenzene	95		90		70-130	5		30
Ethyl ether	87		77		67-130	12		30
trans-1,4-Dichloro-2-butene	122		120		70-130	2		30
Methyl cyclohexane	91		81		70-130	12		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		114		70-130
Toluene-d8	101		103		70-130
4-Bromofluorobenzene	99		103		70-130
Dibromofluoromethane	98		95		70-130



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 09 Batch: WG1940226-3 WG1940226-4								
Methylene chloride	85		72		70-130	17		30
1,1-Dichloroethane	103		91		70-130	12		30
Chloroform	100		92		70-130	8		30
Carbon tetrachloride	96		83		70-130	15		30
1,2-Dichloropropane	98		89		70-130	10		30
Dibromochloromethane	91		86		70-130	6		30
1,1,2-Trichloroethane	102		99		70-130	3		30
Tetrachloroethene	92		84		70-130	9		30
Chlorobenzene	94		88		70-130	7		30
Trichlorofluoromethane	90		73		70-139	21		30
1,2-Dichloroethane	103		97		70-130	6		30
1,1,1-Trichloroethane	104		91		70-130	13		30
Bromodichloromethane	96		88		70-130	9		30
trans-1,3-Dichloropropene	107		102		70-130	5		30
cis-1,3-Dichloropropene	97		91		70-130	6		30
1,1-Dichloropropene	96		85		70-130	12		30
Bromoform	78		80		70-130	3		30
1,1,2,2-Tetrachloroethane	101		100		70-130	1		30
Benzene	99		90		70-130	10		30
Toluene	96		88		70-130	9		30
Ethylbenzene	100		93		70-130	7		30
Chloromethane	96		86		52-130	11		30
Bromomethane	76		62		57-147	20		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 09 Batch: WG1940226-3 WG1940226-4								
Vinyl chloride	102		82		67-130	22		30
Chloroethane	94		75		50-151	22		30
1,1-Dichloroethene	87		71		65-135	20		30
trans-1,2-Dichloroethene	95		80		70-130	17		30
Trichloroethene	101		93		70-130	8		30
1,2-Dichlorobenzene	94		89		70-130	5		30
1,3-Dichlorobenzene	95		90		70-130	5		30
1,4-Dichlorobenzene	96		90		70-130	6		30
Methyl tert butyl ether	110		101		66-130	9		30
p/m-Xylene	96		88		70-130	9		30
o-Xylene	93		87		70-130	7		30
cis-1,2-Dichloroethene	94		81		70-130	15		30
Dibromomethane	95		90		70-130	5		30
Styrene	98		92		70-130	6		30
Dichlorodifluoromethane	99		82		30-146	19		30
Acetone	96		90		54-140	6		30
Carbon disulfide	90		72		59-130	22		30
2-Butanone	100		99		70-130	1		30
Vinyl acetate	104		96		70-130	8		30
4-Methyl-2-pentanone	96		96		70-130	0		30
1,2,3-Trichloropropane	105		103		68-130	2		30
2-Hexanone	100		101		70-130	1		30
Bromochloromethane	88		80		70-130	10		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 09 Batch: WG1940226-3 WG1940226-4								
2,2-Dichloropropane	107		94		70-130	13		30
1,2-Dibromoethane	92		92		70-130	0		30
1,3-Dichloropropane	102		100		69-130	2		30
1,1,1,2-Tetrachloroethane	92		87		70-130	6		30
Bromobenzene	88		84		70-130	5		30
n-Butylbenzene	109		103		70-130	6		30
sec-Butylbenzene	99		93		70-130	6		30
tert-Butylbenzene	94		87		70-130	8		30
o-Chlorotoluene	104		97		70-130	7		30
p-Chlorotoluene	102		97		70-130	5		30
1,2-Dibromo-3-chloropropane	85		83		68-130	2		30
Hexachlorobutadiene	81		73		67-130	10		30
Isopropylbenzene	96		91		70-130	5		30
p-Isopropyltoluene	96		90		70-130	6		30
Naphthalene	92		92		70-130	0		30
Acrylonitrile	99		93		70-130	6		30
Tert-Butyl Alcohol	131	Q	129		70-130	2		30
n-Propylbenzene	104		98		70-130	6		30
1,2,3-Trichlorobenzene	88		85		70-130	3		30
1,2,4-Trichlorobenzene	90		87		70-130	3		30
1,3,5-Trimethylbenzene	99		93		70-130	6		30
1,2,4-Trimethylbenzene	99		94		70-130	5		30
Methyl Acetate	114		104		51-146	9		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2435013

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 09 Batch: WG1940226-3 WG1940226-4								
Acrolein	89		78		70-130	13		30
Cyclohexane	96		87		59-142	10		30
1,4-Dioxane	90		91		65-136	1		30
Freon-113	91		73		50-139	22		30
p-Diethylbenzene	98		92		70-130	6		30
p-Ethyltoluene	99		93		70-130	6		30
1,2,4,5-Tetramethylbenzene	95		90		70-130	5		30
Ethyl ether	87		77		67-130	12		30
trans-1,4-Dichloro-2-butene	122		120		70-130	2		30
Methyl cyclohexane	91		81		70-130	12		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	112		114		70-130
Toluene-d8	101		103		70-130
4-Bromofluorobenzene	99		102		70-130
Dibromofluoromethane	98		95		70-130

# SEMIVOLATILES

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-01  
 Client ID: WC04\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 11:55  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/28/24 07:57  
 Analyst: LJG  
 Percent Solids: 84%

Extraction Method: EPA 3546  
 Extraction Date: 06/27/24 03:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	680		ug/kg	160	20.	1
Benzidine	ND		ug/kg	650	210	1
1,2,4-Trichlorobenzene	ND		ug/kg	200	22.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Bis(2-chloroethyl)ether	ND		ug/kg	180	26.	1
2-Chloronaphthalene	ND		ug/kg	200	19.	1
1,2-Dichlorobenzene	ND		ug/kg	200	35.	1
1,3-Dichlorobenzene	ND		ug/kg	200	34.	1
1,4-Dichlorobenzene	ND		ug/kg	200	34.	1
3,3'-Dichlorobenzidine	ND		ug/kg	200	52.	1
2,4-Dinitrotoluene	ND		ug/kg	200	39.	1
2,6-Dinitrotoluene	ND		ug/kg	200	34.	1
Azobenzene	ND		ug/kg	200	19.	1
Fluoranthene	11000	E	ug/kg	120	22.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	200	21.	1
4-Bromophenyl phenyl ether	ND		ug/kg	200	30.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	240	33.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	210	20.	1
Hexachlorobutadiene	ND		ug/kg	200	29.	1
Hexachlorocyclopentadiene	ND		ug/kg	560	180	1
Hexachloroethane	ND		ug/kg	160	32.	1
Isophorone	ND		ug/kg	180	25.	1
Naphthalene	250		ug/kg	200	24.	1
Nitrobenzene	ND		ug/kg	180	29.	1
NDPA/DPA	ND		ug/kg	160	22.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	200	30.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	200	68.	1
Butyl benzyl phthalate	ND		ug/kg	200	49.	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435013**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2435013-01  
 Client ID: WC04\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 11:55  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Di-n-butylphthalate	ND		ug/kg	200	37.	1
Di-n-octylphthalate	ND		ug/kg	200	67.	1
Diethyl phthalate	ND		ug/kg	200	18.	1
Dimethyl phthalate	ND		ug/kg	200	41.	1
Benzo(a)anthracene	5200		ug/kg	120	22.	1
Benzo(a)pyrene	3600		ug/kg	160	48.	1
Benzo(b)fluoranthene	4100		ug/kg	120	33.	1
Benzo(k)fluoranthene	1200		ug/kg	120	31.	1
Chrysene	4300		ug/kg	120	20.	1
Acenaphthylene	530		ug/kg	160	30.	1
Anthracene	2200		ug/kg	120	38.	1
Benzo(ghi)perylene	2500		ug/kg	160	23.	1
Fluorene	870		ug/kg	200	19.	1
Phenanthrene	8300	E	ug/kg	120	24.	1
Dibenzo(a,h)anthracene	700		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	2300		ug/kg	160	27.	1
Pyrene	9300	E	ug/kg	120	19.	1
Biphenyl	55	J	ug/kg	450	25.	1
4-Chloroaniline	ND		ug/kg	200	36.	1
2-Nitroaniline	ND		ug/kg	200	38.	1
3-Nitroaniline	ND		ug/kg	200	37.	1
4-Nitroaniline	ND		ug/kg	200	81.	1
Dibenzofuran	460		ug/kg	200	18.	1
2-Methylnaphthalene	180	J	ug/kg	240	24.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	200	20.	1
Acetophenone	ND		ug/kg	200	24.	1
n-Nitrosodimethylamine	ND		ug/kg	390	38.	1
2,4,6-Trichlorophenol	ND		ug/kg	120	37.	1
p-Chloro-m-cresol	ND		ug/kg	200	29.	1
2-Chlorophenol	ND		ug/kg	200	23.	1
2,4-Dichlorophenol	ND		ug/kg	180	32.	1
2,4-Dimethylphenol	ND		ug/kg	200	65.	1
2-Nitrophenol	ND		ug/kg	420	74.	1
4-Nitrophenol	ND		ug/kg	270	80.	1
2,4-Dinitrophenol	ND		ug/kg	940	91.	1
4,6-Dinitro-o-cresol	ND		ug/kg	510	94.	1
Pentachlorophenol	ND		ug/kg	160	43.	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2435013-01  
**Client ID:** WC04\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/20/24 11:55  
**Date Received:** 06/20/24  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	46	J	ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	50	J	ug/kg	280	31.	1
2,4,5-Trichlorophenol	ND		ug/kg	200	38.	1
Benzoic Acid	ND		ug/kg	640	200	1
Benzyl Alcohol	ND		ug/kg	200	60.	1
Carbazole	590		ug/kg	200	19.	1
Atrazine	ND		ug/kg	160	69.	1
Benzaldehyde	ND		ug/kg	260	53.	1
Caprolactam	ND		ug/kg	200	60.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	200	40.	1
1,4-Dioxane	ND		ug/kg	29	9.0	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	56		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	30		23-120
2-Fluorobiphenyl	55		30-120
2,4,6-Tribromophenol	54		10-136
4-Terphenyl-d14	41		18-120



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435013**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2435013-01 D  
 Client ID: WC04\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 11:55  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/28/24 15:33  
 Analyst: JG  
 Percent Solids: 84%

Extraction Method: EPA 3546  
 Extraction Date: 06/27/24 03:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	10000		ug/kg	590	110	5
Phenanthrene	7700		ug/kg	590	120	5
Pyrene	8700		ug/kg	590	97.	5

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-08  
 Client ID: DUP02\_COMP\_062024  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 00:00  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/28/24 08:45  
 Analyst: LJG  
 Percent Solids: 78%

Extraction Method: EPA 3546  
 Extraction Date: 06/27/24 03:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	580		ug/kg	170	22.	1
Benzidine	ND		ug/kg	690	230	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	24.	1
Hexachlorobenzene	ND		ug/kg	130	24.	1
Bis(2-chloroethyl)ether	ND		ug/kg	190	28.	1
2-Chloronaphthalene	ND		ug/kg	210	21.	1
1,2-Dichlorobenzene	ND		ug/kg	210	38.	1
1,3-Dichlorobenzene	ND		ug/kg	210	36.	1
1,4-Dichlorobenzene	ND		ug/kg	210	37.	1
3,3'-Dichlorobenzidine	ND		ug/kg	210	56.	1
2,4-Dinitrotoluene	ND		ug/kg	210	42.	1
2,6-Dinitrotoluene	ND		ug/kg	210	36.	1
Azobenzene	ND		ug/kg	210	20.	1
Fluoranthene	8800	E	ug/kg	130	24.	1
4-Chlorophenyl phenyl ether	ND		ug/kg	210	22.	1
4-Bromophenyl phenyl ether	ND		ug/kg	210	32.	1
Bis(2-chloroisopropyl)ether	ND		ug/kg	250	36.	1
Bis(2-chloroethoxy)methane	ND		ug/kg	230	21.	1
Hexachlorobutadiene	ND		ug/kg	210	31.	1
Hexachlorocyclopentadiene	ND		ug/kg	600	190	1
Hexachloroethane	ND		ug/kg	170	34.	1
Isophorone	ND		ug/kg	190	27.	1
Naphthalene	920		ug/kg	210	26.	1
Nitrobenzene	ND		ug/kg	190	31.	1
NDPA/DPA	ND		ug/kg	170	24.	1
n-Nitrosodi-n-propylamine	ND		ug/kg	210	32.	1
Bis(2-ethylhexyl)phthalate	ND		ug/kg	210	73.	1
Butyl benzyl phthalate	ND		ug/kg	210	53.	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435013**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2435013-08  
 Client ID: DUP02\_COMP\_062024  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 00:00  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Di-n-butylphthalate	ND		ug/kg	210	40.	1
Di-n-octylphthalate	ND		ug/kg	210	72.	1
Diethyl phthalate	ND		ug/kg	210	19.	1
Dimethyl phthalate	ND		ug/kg	210	44.	1
Benzo(a)anthracene	3800		ug/kg	130	24.	1
Benzo(a)pyrene	3400		ug/kg	170	51.	1
Benzo(b)fluoranthene	3200		ug/kg	130	35.	1
Benzo(k)fluoranthene	1000		ug/kg	130	34.	1
Chrysene	3300		ug/kg	130	22.	1
Acenaphthylene	660		ug/kg	170	32.	1
Anthracene	2000		ug/kg	130	41.	1
Benzo(ghi)perylene	3200		ug/kg	170	25.	1
Fluorene	970		ug/kg	210	20.	1
Phenanthrene	8700	E	ug/kg	130	26.	1
Dibenzo(a,h)anthracene	670		ug/kg	130	24.	1
Indeno(1,2,3-cd)pyrene	1700		ug/kg	170	29.	1
Pyrene	7800		ug/kg	130	21.	1
Biphenyl	130	J	ug/kg	480	27.	1
4-Chloroaniline	ND		ug/kg	210	38.	1
2-Nitroaniline	ND		ug/kg	210	40.	1
3-Nitroaniline	ND		ug/kg	210	40.	1
4-Nitroaniline	ND		ug/kg	210	87.	1
Dibenzofuran	820		ug/kg	210	20.	1
2-Methylnaphthalene	620		ug/kg	250	25.	1
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	210	22.	1
Acetophenone	ND		ug/kg	210	26.	1
n-Nitrosodimethylamine	ND		ug/kg	420	40.	1
2,4,6-Trichlorophenol	ND		ug/kg	130	40.	1
p-Chloro-m-cresol	ND		ug/kg	210	31.	1
2-Chlorophenol	ND		ug/kg	210	25.	1
2,4-Dichlorophenol	ND		ug/kg	190	34.	1
2,4-Dimethylphenol	ND		ug/kg	210	69.	1
2-Nitrophenol	ND		ug/kg	450	79.	1
4-Nitrophenol	ND		ug/kg	290	86.	1
2,4-Dinitrophenol	ND		ug/kg	1000	98.	1
4,6-Dinitro-o-cresol	ND		ug/kg	550	100	1
Pentachlorophenol	ND		ug/kg	170	46.	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2435013-08  
**Client ID:** DUP02\_COMP\_062024  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/20/24 00:00  
**Date Received:** 06/20/24  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	91	J	ug/kg	210	32.	1
2-Methylphenol	59	J	ug/kg	210	33.	1
3-Methylphenol/4-Methylphenol	160	J	ug/kg	300	33.	1
2,4,5-Trichlorophenol	ND		ug/kg	210	40.	1
Benzoic Acid	ND		ug/kg	680	210	1
Benzyl Alcohol	ND		ug/kg	210	64.	1
Carbazole	850		ug/kg	210	20.	1
Atrazine	ND		ug/kg	170	74.	1
Benzaldehyde	ND		ug/kg	280	57.	1
Caprolactam	ND		ug/kg	210	64.	1
2,3,4,6-Tetrachlorophenol	ND		ug/kg	210	42.	1
1,4-Dioxane	ND		ug/kg	32	9.7	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	78		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	42		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	42		10-136
4-Terphenyl-d14	53		18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-08 D  
 Client ID: DUP02\_COMP\_062024  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 00:00  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/28/24 15:58  
 Analyst: JG  
 Percent Solids: 78%

Extraction Method: EPA 3546  
 Extraction Date: 06/27/24 03:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Fluoranthene	6800		ug/kg	630	120	5
Phenanthrene	7400		ug/kg	630	130	5

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-10 D  
 Client ID: WC09\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 14:30  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/28/24 16:22  
 Analyst: JG  
 Percent Solids: 84%

Extraction Method: EPA 3546  
 Extraction Date: 06/27/24 03:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	290	J	ug/kg	1500	200	10
Benzidine	ND		ug/kg	6300	2100	10
1,2,4-Trichlorobenzene	ND		ug/kg	1900	220	10
Hexachlorobenzene	ND		ug/kg	1200	220	10
Bis(2-chloroethyl)ether	ND		ug/kg	1700	260	10
2-Chloronaphthalene	ND		ug/kg	1900	190	10
1,2-Dichlorobenzene	ND		ug/kg	1900	340	10
1,3-Dichlorobenzene	ND		ug/kg	1900	330	10
1,4-Dichlorobenzene	ND		ug/kg	1900	340	10
3,3'-Dichlorobenzidine	ND		ug/kg	1900	510	10
2,4-Dinitrotoluene	ND		ug/kg	1900	380	10
2,6-Dinitrotoluene	ND		ug/kg	1900	330	10
Azobenzene	ND		ug/kg	1900	180	10
Fluoranthene	3500		ug/kg	1200	220	10
4-Chlorophenyl phenyl ether	ND		ug/kg	1900	200	10
4-Bromophenyl phenyl ether	ND		ug/kg	1900	290	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2300	330	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2100	190	10
Hexachlorobutadiene	ND		ug/kg	1900	280	10
Hexachlorocyclopentadiene	ND		ug/kg	5500	1700	10
Hexachloroethane	ND		ug/kg	1500	310	10
Isophorone	ND		ug/kg	1700	250	10
Naphthalene	280	J	ug/kg	1900	230	10
Nitrobenzene	ND		ug/kg	1700	280	10
NDPA/DPA	ND		ug/kg	1500	220	10
n-Nitrosodi-n-propylamine	ND		ug/kg	1900	300	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	1900	660	10
Butyl benzyl phthalate	ND		ug/kg	1900	480	10

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435013**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2435013-10 D  
 Client ID: WC09\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 14:30  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Di-n-butylphthalate	ND		ug/kg	1900	360	10
Di-n-octylphthalate	ND		ug/kg	1900	650	10
Diethyl phthalate	ND		ug/kg	1900	180	10
Dimethyl phthalate	ND		ug/kg	1900	400	10
Benzo(a)anthracene	4900		ug/kg	1200	220	10
Benzo(a)pyrene	6400		ug/kg	1500	470	10
Benzo(b)fluoranthene	4300		ug/kg	1200	320	10
Benzo(k)fluoranthene	790	J	ug/kg	1200	310	10
Chrysene	6400		ug/kg	1200	200	10
Acenaphthylene	ND		ug/kg	1500	300	10
Anthracene	700	J	ug/kg	1200	370	10
Benzo(ghi)perylene	8300		ug/kg	1500	230	10
Fluorene	310	J	ug/kg	1900	190	10
Phenanthrene	3200		ug/kg	1200	230	10
Dibenzo(a,h)anthracene	2100		ug/kg	1200	220	10
Indeno(1,2,3-cd)pyrene	2000		ug/kg	1500	270	10
Pyrene	4200		ug/kg	1200	190	10
Biphenyl	ND		ug/kg	4400	250	10
4-Chloroaniline	ND		ug/kg	1900	350	10
2-Nitroaniline	ND		ug/kg	1900	370	10
3-Nitroaniline	ND		ug/kg	1900	360	10
4-Nitroaniline	ND		ug/kg	1900	800	10
Dibenzofuran	250	J	ug/kg	1900	180	10
2-Methylnaphthalene	240	J	ug/kg	2300	230	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	1900	200	10
Acetophenone	ND		ug/kg	1900	240	10
n-Nitrosodimethylamine	ND		ug/kg	3800	370	10
2,4,6-Trichlorophenol	ND		ug/kg	1200	360	10
p-Chloro-m-cresol	ND		ug/kg	1900	290	10
2-Chlorophenol	ND		ug/kg	1900	230	10
2,4-Dichlorophenol	ND		ug/kg	1700	310	10
2,4-Dimethylphenol	ND		ug/kg	1900	630	10
2-Nitrophenol	ND		ug/kg	4200	720	10
4-Nitrophenol	ND		ug/kg	2700	780	10
2,4-Dinitrophenol	ND		ug/kg	9200	900	10
4,6-Dinitro-o-cresol	ND		ug/kg	5000	920	10
Pentachlorophenol	ND		ug/kg	1500	420	10

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-10 D  
 Client ID: WC09\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 14:30  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	ND		ug/kg	1900	290	10
2-Methylphenol	ND		ug/kg	1900	300	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	2800	300	10
2,4,5-Trichlorophenol	ND		ug/kg	1900	370	10
Benzoic Acid	ND		ug/kg	6200	1900	10
Benzyl Alcohol	ND		ug/kg	1900	590	10
Carbazole	400	J	ug/kg	1900	190	10
Atrazine	ND		ug/kg	1500	670	10
Benzaldehyde	ND		ug/kg	2500	520	10
Caprolactam	ND		ug/kg	1900	580	10
2,3,4,6-Tetrachlorophenol	ND		ug/kg	1900	390	10
1,4-Dioxane	ND		ug/kg	290	88.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	43		25-120
Phenol-d6	44		10-120
Nitrobenzene-d5	53		23-120
2-Fluorobiphenyl	40		30-120
2,4,6-Tribromophenol	44		10-136
4-Terphenyl-d14	35		18-120



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-17  
 Client ID: WC17\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 15:20  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/28/24 04:39  
 Analyst: SZ  
 Percent Solids: 77%  
 TCLP/SPLP Ext. Date: 06/24/24 17:23

Extraction Method: EPA 3510C  
 Extraction Date: 06/26/24 14:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>TCLP Semivolatiles by EPA 1311 - Westborough Lab</b>						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		21-120
Phenol-d6	63		10-120
Nitrobenzene-d5	85		23-120
2-Fluorobiphenyl	89		15-120
2,4,6-Tribromophenol	84		10-120
4-Terphenyl-d14	88		33-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-17 D  
 Client ID: WC17\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 15:20  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/28/24 16:11  
 Analyst: JG  
 Percent Solids: 77%

Extraction Method: EPA 3546  
 Extraction Date: 06/27/24 03:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	340	J	ug/kg	1700	220	10
Benzidine	ND		ug/kg	7000	2300	10
1,2,4-Trichlorobenzene	ND		ug/kg	2100	240	10
Hexachlorobenzene	ND		ug/kg	1300	240	10
Bis(2-chloroethyl)ether	ND		ug/kg	1900	290	10
2-Chloronaphthalene	ND		ug/kg	2100	210	10
1,2-Dichlorobenzene	ND		ug/kg	2100	380	10
1,3-Dichlorobenzene	ND		ug/kg	2100	360	10
1,4-Dichlorobenzene	ND		ug/kg	2100	370	10
3,3'-Dichlorobenzidine	ND		ug/kg	2100	560	10
2,4-Dinitrotoluene	ND		ug/kg	2100	420	10
2,6-Dinitrotoluene	ND		ug/kg	2100	360	10
Azobenzene	ND		ug/kg	2100	200	10
Fluoranthene	1800		ug/kg	1300	240	10
4-Chlorophenyl phenyl ether	ND		ug/kg	2100	230	10
4-Bromophenyl phenyl ether	ND		ug/kg	2100	320	10
Bis(2-chloroisopropyl)ether	ND		ug/kg	2500	360	10
Bis(2-chloroethoxy)methane	ND		ug/kg	2300	210	10
Hexachlorobutadiene	ND		ug/kg	2100	310	10
Hexachlorocyclopentadiene	ND		ug/kg	6100	1900	10
Hexachloroethane	ND		ug/kg	1700	340	10
Isophorone	ND		ug/kg	1900	280	10
Naphthalene	290	J	ug/kg	2100	260	10
Nitrobenzene	ND		ug/kg	1900	310	10
NDPA/DPA	ND		ug/kg	1700	240	10
n-Nitrosodi-n-propylamine	ND		ug/kg	2100	330	10
Bis(2-ethylhexyl)phthalate	ND		ug/kg	2100	740	10
Butyl benzyl phthalate	ND		ug/kg	2100	540	10

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

## SAMPLE RESULTS

Lab ID: L2435013-17 D  
 Client ID: WC17\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 15:20  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Di-n-butylphthalate	ND		ug/kg	2100	400	10
Di-n-octylphthalate	ND		ug/kg	2100	720	10
Diethyl phthalate	ND		ug/kg	2100	200	10
Dimethyl phthalate	ND		ug/kg	2100	450	10
Benzo(a)anthracene	5500		ug/kg	1300	240	10
Benzo(a)pyrene	3600		ug/kg	1700	520	10
Benzo(b)fluoranthene	3100		ug/kg	1300	360	10
Benzo(k)fluoranthene	520	J	ug/kg	1300	340	10
Chrysene	6400		ug/kg	1300	220	10
Acenaphthylene	ND		ug/kg	1700	330	10
Anthracene	700	J	ug/kg	1300	410	10
Benzo(ghi)perylene	3100		ug/kg	1700	250	10
Fluorene	440	J	ug/kg	2100	210	10
Phenanthrene	2700		ug/kg	1300	260	10
Dibenzo(a,h)anthracene	1500		ug/kg	1300	240	10
Indeno(1,2,3-cd)pyrene	1100	J	ug/kg	1700	300	10
Pyrene	4400		ug/kg	1300	210	10
Biphenyl	ND		ug/kg	4800	280	10
4-Chloroaniline	ND		ug/kg	2100	390	10
2-Nitroaniline	ND		ug/kg	2100	410	10
3-Nitroaniline	ND		ug/kg	2100	400	10
4-Nitroaniline	ND		ug/kg	2100	880	10
Dibenzofuran	ND		ug/kg	2100	200	10
2-Methylnaphthalene	1900	J	ug/kg	2500	260	10
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	2100	220	10
Acetophenone	ND		ug/kg	2100	260	10
n-Nitrosodimethylamine	ND		ug/kg	4200	410	10
2,4,6-Trichlorophenol	ND		ug/kg	1300	400	10
p-Chloro-m-cresol	ND		ug/kg	2100	320	10
2-Chlorophenol	ND		ug/kg	2100	250	10
2,4-Dichlorophenol	ND		ug/kg	1900	340	10
2,4-Dimethylphenol	ND		ug/kg	2100	700	10
2-Nitrophenol	ND		ug/kg	4600	800	10
4-Nitrophenol	ND		ug/kg	3000	870	10
2,4-Dinitrophenol	ND		ug/kg	10000	990	10
4,6-Dinitro-o-cresol	ND		ug/kg	5500	1000	10
Pentachlorophenol	ND		ug/kg	1700	470	10

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-17 D  
 Client ID: WC17\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 15:20  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	ND		ug/kg	2100	320	10
2-Methylphenol	ND		ug/kg	2100	330	10
3-Methylphenol/4-Methylphenol	ND		ug/kg	3000	330	10
2,4,5-Trichlorophenol	ND		ug/kg	2100	410	10
Benzoic Acid	ND		ug/kg	6900	2200	10
Benzyl Alcohol	ND		ug/kg	2100	650	10
Carbazole	ND		ug/kg	2100	210	10
Atrazine	ND		ug/kg	1700	740	10
Benzaldehyde	ND		ug/kg	2800	570	10
Caprolactam	ND		ug/kg	2100	640	10
2,3,4,6-Tetrachlorophenol	ND		ug/kg	2100	430	10
1,4-Dioxane	ND		ug/kg	320	98.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	51		25-120
Phenol-d6	57		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	52		30-120
2,4,6-Tribromophenol	56		10-136
4-Terphenyl-d14	50		18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/26/24 21:22  
Analyst: LJG

Extraction Method: EPA 3546  
Extraction Date: 06/26/24 11:46

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,08,10,17 Batch: WG1939684-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	540	180
1,2,4-Trichlorobenzene	ND		ug/kg	160	19.
Hexachlorobenzene	ND		ug/kg	99	18.
Bis(2-chloroethyl)ether	ND		ug/kg	150	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	30.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	29.
3,3'-Dichlorobenzidine	ND		ug/kg	160	44.
2,4-Dinitrotoluene	ND		ug/kg	160	33.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	99	19.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	18.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	200	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	180	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	470	150
Hexachloroethane	ND		ug/kg	130	27.
Isophorone	ND		ug/kg	150	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	150	24.
NDPA/DPA	ND		ug/kg	130	19.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	57.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/26/24 21:22  
Analyst: LJG

Extraction Method: EPA 3546  
Extraction Date: 06/26/24 11:46

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,08,10,17 Batch: WG1939684-1					
Di-n-octylphthalate	ND		ug/kg	160	56.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
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.
Biphenyl	ND		ug/kg	380	21.
4-Chloroaniline	ND		ug/kg	160	30.
2-Nitroaniline	ND		ug/kg	160	32.
3-Nitroaniline	ND		ug/kg	160	31.
4-Nitroaniline	ND		ug/kg	160	68.
Dibenzofuran	ND		ug/kg	160	16.
2-Methylnaphthalene	ND		ug/kg	200	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
n-Nitrosodimethylamine	ND		ug/kg	330	32.
2,4,6-Trichlorophenol	ND		ug/kg	99	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8270E  
Analytical Date: 06/26/24 21:22  
Analyst: LJG

Extraction Method: EPA 3546  
Extraction Date: 06/26/24 11:46

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01,08,10,17 Batch: WG1939684-1					
2,4-Dichlorophenol	ND		ug/kg	150	26.
2,4-Dimethylphenol	ND		ug/kg	160	54.
2-Nitrophenol	ND		ug/kg	360	62.
4-Nitrophenol	ND		ug/kg	230	67.
2,4-Dinitrophenol	ND		ug/kg	790	77.
4,6-Dinitro-o-cresol	ND		ug/kg	430	79.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
2,4,5-Trichlorophenol	ND		ug/kg	160	32.
Benzoic Acid	ND		ug/kg	530	170
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	58.
Benzaldehyde	ND		ug/kg	220	44.
Caprolactam	ND		ug/kg	160	50.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.
1,4-Dioxane	ND		ug/kg	25	7.6

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	94		25-120
Phenol-d6	89		10-120
Nitrobenzene-d5	81		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	83		10-136
4-Terphenyl-d14	92		18-120



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis  
 Batch Quality Control**

Analytical Method: 1,8270E  
 Analytical Date: 06/28/24 01:11  
 Analyst: SZ  
 TCLP/SPLP Extraction Date: 06/24/24 17:23

Extraction Method: EPA 3510C  
 Extraction Date: 06/26/24 14:44

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 17 Batch: WG1939751-1					
Hexachlorobenzene	ND		ug/l	10	3.4
2,4-Dinitrotoluene	ND		ug/l	25	1.9
Hexachlorobutadiene	ND		ug/l	10	3.0
Hexachloroethane	ND		ug/l	10	2.2
Nitrobenzene	ND		ug/l	10	3.3
2,4,6-Trichlorophenol	ND		ug/l	25	2.5
Pentachlorophenol	ND		ug/l	50	9.8
2-Methylphenol	ND		ug/l	25	5.5
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8
2,4,5-Trichlorophenol	ND		ug/l	25	1.9
Pyridine	ND		ug/l	18	4.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	67		10-120
4-Terphenyl-d14	78		33-120



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,08,10,17 Batch: WG1939684-2 WG1939684-3								
Acenaphthene	77		78		31-137	1		50
Benzidine	45		52		10-66	14		50
1,2,4-Trichlorobenzene	76		78		38-107	3		50
Hexachlorobenzene	82		81		40-140	1		50
Bis(2-chloroethyl)ether	78		78		40-140	0		50
2-Chloronaphthalene	78		79		40-140	1		50
1,2-Dichlorobenzene	71		73		40-140	3		50
1,3-Dichlorobenzene	70		73		40-140	4		50
1,4-Dichlorobenzene	71		74		28-104	4		50
3,3'-Dichlorobenzidine	78		80		40-140	3		50
2,4-Dinitrotoluene	89		90		40-132	1		50
2,6-Dinitrotoluene	90		89		40-140	1		50
Azobenzene	89		90		40-140	1		50
Fluoranthene	85		85		40-140	0		50
4-Chlorophenyl phenyl ether	87		87		40-140	0		50
4-Bromophenyl phenyl ether	88		86		40-140	2		50
Bis(2-chloroisopropyl)ether	76		77		40-140	1		50
Bis(2-chloroethoxy)methane	89		90		40-117	1		50
Hexachlorobutadiene	92		93		40-140	1		50
Hexachlorocyclopentadiene	87		85		40-140	2		50
Hexachloroethane	82		85		40-140	4		50
Isophorone	86		87		40-140	1		50
Naphthalene	76		76		40-140	0		50

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2435013

**Project Number:** 170562203

**Report Date:** 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,08,10,17 Batch: WG1939684-2 WG1939684-3								
Nitrobenzene	84		84		40-140	0		50
NDPA/DPA	81		81		36-157	0		50
n-Nitrosodi-n-propylamine	91		92		32-121	1		50
Bis(2-ethylhexyl)phthalate	95		95		40-140	0		50
Butyl benzyl phthalate	99		99		40-140	0		50
Di-n-butylphthalate	94		93		40-140	1		50
Di-n-octylphthalate	99		102		40-140	3		50
Diethyl phthalate	90		90		40-140	0		50
Dimethyl phthalate	86		86		40-140	0		50
Benzo(a)anthracene	86		85		40-140	1		50
Benzo(a)pyrene	81		82		40-140	1		50
Benzo(b)fluoranthene	78		79		40-140	1		50
Benzo(k)fluoranthene	79		83		40-140	5		50
Chrysene	83		85		40-140	2		50
Acenaphthylene	79		79		40-140	0		50
Anthracene	82		82		40-140	0		50
Benzo(ghi)perylene	78		78		40-140	0		50
Fluorene	77		79		40-140	3		50
Phenanthrene	78		78		40-140	0		50
Dibenzo(a,h)anthracene	79		78		40-140	1		50
Indeno(1,2,3-cd)pyrene	79		79		40-140	0		50
Pyrene	85		87		35-142	2		50
Biphenyl	75		74		37-127	1		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,08,10,17 Batch: WG1939684-2 WG1939684-3								
4-Chloroaniline	63		68		40-140	8		50
2-Nitroaniline	92		92		47-134	0		50
3-Nitroaniline	67		70		26-129	4		50
4-Nitroaniline	82		90		41-125	9		50
Dibenzofuran	78		77		40-140	1		50
2-Methylnaphthalene	79		80		40-140	1		50
1,2,4,5-Tetrachlorobenzene	86		86		40-117	0		50
Acetophenone	84		86		14-144	2		50
n-Nitrosodimethylamine	88		89		22-100	1		50
2,4,6-Trichlorophenol	92		94		30-130	2		50
p-Chloro-m-cresol	92		93		26-103	1		50
2-Chlorophenol	83		84		25-102	1		50
2,4-Dichlorophenol	82		84		30-130	2		50
2,4-Dimethylphenol	85		87		30-130	2		50
2-Nitrophenol	85		86		30-130	1		50
4-Nitrophenol	99		99		11-114	0		50
2,4-Dinitrophenol	86		88		4-130	2		50
4,6-Dinitro-o-cresol	97		99		10-130	2		50
Pentachlorophenol	86		87		17-109	1		50
Phenol	94	Q	95	Q	26-90	1		50
2-Methylphenol	84		86		30-130.	2		50
3-Methylphenol/4-Methylphenol	84		84		30-130	0		50
2,4,5-Trichlorophenol	91		92		30-130	1		50

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01,08,10,17 Batch: WG1939684-2 WG1939684-3								
Benzoic Acid	68		72		10-110	6		50
Benzyl Alcohol	93		95		40-140	2		50
Carbazole	82		82		54-128	0		50
Atrazine	82		82		40-140	0		50
Benzaldehyde	75		77		40-140	3		50
Caprolactam	94		95		15-130	1		50
2,3,4,6-Tetrachlorophenol	94		96		40-140	2		50
1,4-Dioxane	59		61		40-140	3		50

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
2-Fluorophenol	90		92		25-120
Phenol-d6	87		86		10-120
Nitrobenzene-d5	83		83		23-120
2-Fluorobiphenyl	76		77		30-120
2,4,6-Tribromophenol	84		82		10-136
4-Terphenyl-d14	81		82		18-120



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 17 Batch: WG1939751-2 WG1939751-3								
Hexachlorobenzene	98		107		40-140	9		30
2,4-Dinitrotoluene	115		122		40-132	6		30
Hexachlorobutadiene	73		80		28-111	9		30
Hexachloroethane	64		69		21-105	8		30
Nitrobenzene	101		108		40-140	7		30
2,4,6-Trichlorophenol	106		116		30-130	9		30
Pentachlorophenol	100		107	Q	9-103	7		30
2-Methylphenol	92		98		30-130	6		30
3-Methylphenol/4-Methylphenol	100		106		30-130	6		30
2,4,5-Trichlorophenol	109		122		30-130	11		30
Pyridine	38		40		10-66	5		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	87		93		21-120
Phenol-d6	85		93		10-120
Nitrobenzene-d5	102		110		23-120
2-Fluorobiphenyl	90		99		15-120
2,4,6-Tribromophenol	106		112		10-120
4-Terphenyl-d14	96		103		33-120



# PETROLEUM HYDROCARBONS

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-02 D  
 Client ID: WC04B\_GRAB\_2-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 11:00  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/28/24 13:46  
 Analyst: MTC  
 Percent Solids: 88%

Extraction Method: EPA 3546  
 Extraction Date: 06/27/24 07:32

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	21800		mg/kg	522	522.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435013**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2435013-09 D  
 Client ID: DUP02\_GRAB\_062024  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 00:00  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/28/24 13:10  
 Analyst: MTC  
 Percent Solids: 88%

Extraction Method: EPA 3546  
 Extraction Date: 06/27/24 04:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	17200		mg/kg	533	533.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435013**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2435013-11 D  
 Client ID: WC09B\_GRAB\_2-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 14:00  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/28/24 15:32  
 Analyst: MTC  
 Percent Solids: 77%

Extraction Method: EPA 3546  
 Extraction Date: 06/27/24 04:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	31300		mg/kg	1220	1220	40

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-18 D  
 Client ID: WC09A\_GRAB\_7-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 14:50  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/28/24 14:21  
 Analyst: MTC  
 Percent Solids: 92%

Extraction Method: EPA 3546  
 Extraction Date: 06/27/24 04:28

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab						
Total EPH	14300		mg/kg	514	514.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 103,NJDEP EPH  
Analytical Date: 06/28/24 09:39  
Analyst: MTC

Extraction Method: EPA 3546  
Extraction Date: 06/27/24 04:28

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 09,11,18 Batch: WG1940029-1					
Total EPH	ND		mg/kg	23.4	23.4

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	76		40-140
o-Terphenyl	77		40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 103,NJDEP EPH  
Analytical Date: 06/28/24 09:39  
Analyst: MTC

Extraction Method: EPA 3546  
Extraction Date: 06/27/24 07:32

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 02 Batch: WG1940109-1					
Total EPH	ND		mg/kg	22.8	22.8

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	79		40-140
o-Terphenyl	81		40-140

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2435013

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 09,11,18 Batch: WG1940029-2 WG1940029-3								
Total EPH	99		100		40-140	1		25
Nonane (C9)	92		93		40-140	1		25
Decane (C10)	98		100		40-140	2		25
Dodecane (C12)	92		95		40-140	3		25
Tetradecane (C14)	90		94		40-140	4		25
Hexadecane (C16)	89		92		40-140	3		25
Octadecane (C18)	85		88		40-140	3		25
Eicosane (C20)	86		87		40-140	1		25
Heneicosane (C21)	88		89		40-140	1		25
Docosane (C22)	87		88		40-140	1		25
Tetracosane (C24)	88		88		40-140	0		25
Hexacosane (C26)	87		87		40-140	0		25
Octacosane (C28)	89		89		40-140	0		25
triacontane (C30)	91		92		40-140	1		25
Dotriacontane (C32)	94		94		40-140	0		25
Tetracontane (C34)	92		93		40-140	1		25
Hexatriacontane (C36)	96		96		40-140	0		25
Octatriacontane (C38)	95		97		40-140	2		25
Tetracontane (C40)	100		103		40-140	3		25

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 09,11,18 Batch: WG1940029-2 WG1940029-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Chloro-Octadecane	78		79		40-140
o-Terphenyl	80		81		40-140

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 02 Batch: WG1940109-2 WG1940109-3								
Total EPH	93		94		40-140	1		25
Nonane (C9)	86		86		40-140	0		25
Decane (C10)	92		94		40-140	2		25
Dodecane (C12)	85		88		40-140	3		25
Tetradecane (C14)	83		86		40-140	4		25
Hexadecane (C16)	83		85		40-140	2		25
Octadecane (C18)	81		81		40-140	0		25
Eicosane (C20)	82		82		40-140	0		25
Heneicosane (C21)	84		84		40-140	0		25
Docosane (C22)	84		84		40-140	0		25
Tetracosane (C24)	84		84		40-140	0		25
Hexacosane (C26)	84		83		40-140	1		25
Octacosane (C28)	85		84		40-140	1		25
triacontane (C30)	86		85		40-140	1		25
Dotriacontane (C32)	87		87		40-140	0		25
Tetracontane (C34)	86		86		40-140	0		25
Hexatriacontane (C36)	92		92		40-140	0		25
Octatriacontane (C38)	90		90		40-140	0		25
Tetracontane (C40)	95		96		40-140	1		25

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 02 Batch: WG1940109-2 WG1940109-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> <i>Criteria</i>
Chloro-Octadecane	80		79		40-140
o-Terphenyl	80		81		40-140



### Lab Duplicate Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2435013

**Report Date:** 06/30/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 09,11,18 QC Batch ID: WG1940029-5 QC Sample: L2435013-09 Client ID: DUP02_GRAB_062024						
Total EPH	17200	17200	mg/kg	0		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	0	Q	40-140
o-Terphenyl	0	Q	0	Q	40-140

**Lab Duplicate Analysis**  
**Batch Quality Control**

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2435013

**Report Date:** 06/30/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 02 QC Batch ID: WG1940109-5 QC Sample: L2435013-02 Client ID: WC04B_GRAB_2-4						
Total EPH	21800	21400	mg/kg	2		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	0	Q	40-140
o-Terphenyl	0	Q	0	Q	40-140

# PCBS

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-01  
 Client ID: WC04\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 11:55  
 Date Received: 06/20/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8082A  
 Analytical Date: 06/27/24 16:23  
 Analyst: MEO  
 Percent Solids: 84%

Extraction Method: EPA 3546  
 Extraction Date: 06/26/24 14:34  
 Cleanup Method: EPA 3665A  
 Cleanup Date: 06/27/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/27/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	57.8	5.14	1	A
Aroclor 1221	ND		ug/kg	57.8	5.80	1	A
Aroclor 1232	ND		ug/kg	57.8	12.3	1	A
Aroclor 1242	ND		ug/kg	57.8	7.80	1	A
Aroclor 1248	ND		ug/kg	57.8	8.68	1	A
Aroclor 1254	ND		ug/kg	57.8	6.33	1	A
Aroclor 1260	ND		ug/kg	57.8	10.7	1	A
Aroclor 1262	ND		ug/kg	57.8	7.34	1	A
Aroclor 1268	ND		ug/kg	57.8	5.99	1	A
PCBs, Total	ND		ug/kg	57.8	5.14	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	83		30-150	A
Decachlorobiphenyl	91		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	102		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2435013-08  
**Client ID:** DUP02\_COMP\_062024  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/20/24 00:00  
**Date Received:** 06/20/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/27/24 16:34  
**Analyst:** MEO  
**Percent Solids:** 78%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/26/24 14:21  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/27/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/27/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	59.9	5.32	1	A
Aroclor 1221	ND		ug/kg	59.9	6.00	1	A
Aroclor 1232	ND		ug/kg	59.9	12.7	1	A
Aroclor 1242	ND		ug/kg	59.9	8.07	1	A
Aroclor 1248	ND		ug/kg	59.9	8.98	1	A
Aroclor 1254	ND		ug/kg	59.9	6.55	1	A
Aroclor 1260	ND		ug/kg	59.9	11.1	1	A
Aroclor 1262	ND		ug/kg	59.9	7.60	1	A
Aroclor 1268	ND		ug/kg	59.9	6.20	1	A
PCBs, Total	ND		ug/kg	59.9	5.32	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	77		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	83		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2435013-10  
**Client ID:** WC09\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/20/24 14:30  
**Date Received:** 06/20/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/27/24 16:46  
**Analyst:** MEO  
**Percent Solids:** 84%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/26/24 14:21  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/27/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/27/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	57.8	5.13	1	A
Aroclor 1221	ND		ug/kg	57.8	5.79	1	A
Aroclor 1232	ND		ug/kg	57.8	12.2	1	A
Aroclor 1242	ND		ug/kg	57.8	7.79	1	A
Aroclor 1248	ND		ug/kg	57.8	8.67	1	A
Aroclor 1254	ND		ug/kg	57.8	6.32	1	A
Aroclor 1260	ND		ug/kg	57.8	10.7	1	A
Aroclor 1262	ND		ug/kg	57.8	7.34	1	A
Aroclor 1268	ND		ug/kg	57.8	5.99	1	A
PCBs, Total	ND		ug/kg	57.8	5.13	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	80		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	94		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2435013-17  
**Client ID:** WC17\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/20/24 15:20  
**Date Received:** 06/20/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/27/24 16:57  
**Analyst:** MEO  
**Percent Solids:** 77%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/26/24 15:06  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/27/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/27/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	61.6	5.47	1	A
Aroclor 1221	ND		ug/kg	61.6	6.17	1	A
Aroclor 1232	ND		ug/kg	61.6	13.1	1	A
Aroclor 1242	ND		ug/kg	61.6	8.31	1	A
Aroclor 1248	ND		ug/kg	61.6	9.24	1	A
Aroclor 1254	ND		ug/kg	61.6	6.74	1	A
Aroclor 1260	ND		ug/kg	61.6	11.4	1	A
Aroclor 1262	ND		ug/kg	61.6	7.83	1	A
Aroclor 1268	ND		ug/kg	61.6	6.38	1	A
PCBs, Total	ND		ug/kg	61.6	5.47	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	103		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8082A  
Analytical Date: 06/27/24 06:45  
Analyst: MHG

Extraction Method: EPA 3546  
Extraction Date: 06/26/24 14:21  
Cleanup Method: EPA 3665A  
Cleanup Date: 06/27/24  
Cleanup Method: EPA 3660B  
Cleanup Date: 06/27/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01,08,10,17 Batch: WG1939748-1						
Aroclor 1016	ND		ug/kg	47.2	4.20	A
Aroclor 1221	ND		ug/kg	47.2	4.74	A
Aroclor 1232	ND		ug/kg	47.2	10.0	A
Aroclor 1242	ND		ug/kg	47.2	6.37	A
Aroclor 1248	ND		ug/kg	47.2	7.09	A
Aroclor 1254	ND		ug/kg	47.2	5.17	A
Aroclor 1260	ND		ug/kg	47.2	8.73	A
Aroclor 1262	ND		ug/kg	47.2	6.00	A
Aroclor 1268	ND		ug/kg	47.2	4.90	A
PCBs, Total	ND		ug/kg	47.2	4.20	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		30-150	A
Decachlorobiphenyl	117		30-150	A
2,4,5,6-Tetrachloro-m-xylene	102		30-150	B
Decachlorobiphenyl	122		30-150	B



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01,08,10,17 Batch: WG1939748-2 WG1939748-3									
Aroclor 1016	91		82		40-140	10		50	A
Aroclor 1260	85		78		40-140	9		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	98		87		30-150	A
Decachlorobiphenyl	117		106		30-150	A
2,4,5,6-Tetrachloro-m-xylene	101		90		30-150	B
Decachlorobiphenyl	122		110		30-150	B

# PESTICIDES

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2435013-01  
**Client ID:** WC04\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/20/24 11:55  
**Date Received:** 06/20/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 06/28/24 15:01  
**Analyst:** EJL  
**Percent Solids:** 84%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/27/24 01:16  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 06/28/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/28/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.85	0.363	1	A
Lindane	ND		ug/kg	0.773	0.345	1	A
Alpha-BHC	ND		ug/kg	0.773	0.219	1	A
Beta-BHC	ND		ug/kg	1.85	0.703	1	A
Heptachlor	ND		ug/kg	0.927	0.416	1	A
Aldrin	ND		ug/kg	1.85	0.653	1	A
Heptachlor epoxide	ND		ug/kg	3.48	1.04	1	A
Endrin	ND		ug/kg	0.773	0.317	1	A
Endrin aldehyde	ND		ug/kg	2.32	0.811	1	A
Endrin ketone	ND		ug/kg	1.85	0.478	1	A
Dieldrin	ND		ug/kg	1.16	0.580	1	A
4,4'-DDE	ND		ug/kg	1.85	0.429	1	A
4,4'-DDD	ND		ug/kg	1.85	0.661	1	A
4,4'-DDT	ND		ug/kg	1.85	1.49	1	A
Endosulfan I	ND		ug/kg	1.85	0.438	1	A
Endosulfan II	ND		ug/kg	1.85	0.620	1	A
Endosulfan sulfate	ND		ug/kg	0.773	0.368	1	A
Methoxychlor	ND		ug/kg	3.48	1.08	1	A
Toxaphene	ND		ug/kg	34.8	9.74	1	A
cis-Chlordane	ND		ug/kg	2.32	0.646	1	A
trans-Chlordane	ND		ug/kg	2.32	0.612	1	A
Chlordane	ND		ug/kg	15.4	6.14	1	A

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435013**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2435013-01  
 Client ID: WC04\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 11:55  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	49		30-150	A
Decachlorobiphenyl	43		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	64		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-01  
 Client ID: WC04\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 11:55  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/26/24 20:46  
 Analyst: EMR  
 Percent Solids: 84%  
 Methylation Date: 06/26/24 09:03

Extraction Method: EPA 8151A  
 Extraction Date: 06/25/24 20:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	196	12.3	1	A
2,4,5-T	ND		ug/kg	196	6.08	1	A
2,4,5-TP (Silvex)	ND		ug/kg	196	5.21	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	104		30-150	A
DCAA	99		30-150	B



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-08  
 Client ID: DUP02\_COMP\_062024  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 00:00  
 Date Received: 06/20/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 06/28/24 15:13  
 Analyst: EJL  
 Percent Solids: 78%

Extraction Method: EPA 3546  
 Extraction Date: 06/27/24 01:16  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 06/28/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/28/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.92	0.376	1	A
Lindane	ND		ug/kg	0.800	0.357	1	A
Alpha-BHC	ND		ug/kg	0.800	0.227	1	A
Beta-BHC	ND		ug/kg	1.92	0.728	1	A
Heptachlor	ND		ug/kg	0.960	0.430	1	A
Aldrin	ND		ug/kg	1.92	0.676	1	A
Heptachlor epoxide	ND		ug/kg	3.60	1.08	1	A
Endrin	ND		ug/kg	0.800	0.328	1	A
Endrin aldehyde	ND		ug/kg	2.40	0.840	1	A
Endrin ketone	ND		ug/kg	1.92	0.494	1	A
Dieldrin	ND		ug/kg	1.20	0.600	1	A
4,4'-DDE	ND		ug/kg	1.92	0.444	1	A
4,4'-DDD	ND		ug/kg	1.92	0.684	1	A
4,4'-DDT	ND		ug/kg	1.92	1.54	1	A
Endosulfan I	ND		ug/kg	1.92	0.453	1	A
Endosulfan II	ND		ug/kg	1.92	0.641	1	A
Endosulfan sulfate	ND		ug/kg	0.800	0.381	1	A
Methoxychlor	ND		ug/kg	3.60	1.12	1	A
Toxaphene	ND		ug/kg	36.0	10.1	1	A
cis-Chlordane	ND		ug/kg	2.40	0.668	1	A
trans-Chlordane	ND		ug/kg	2.40	0.633	1	A
Chlordane	ND		ug/kg	16.0	6.36	1	A

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-08  
 Client ID: DUP02\_COMP\_062024  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 00:00  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	37		30-150	A
Decachlorobiphenyl	<b>28</b>	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	69		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-08  
 Client ID: DUP02\_COMP\_062024  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 00:00  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/26/24 21:04  
 Analyst: EMR  
 Percent Solids: 78%  
 Methylation Date: 06/26/24 10:45

Extraction Method: EPA 8151A  
 Extraction Date: 06/25/24 20:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	212	13.4	1	A
2,4,5-T	ND		ug/kg	212	6.58	1	A
2,4,5-TP (Silvex)	ND		ug/kg	212	5.65	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	83		30-150	A
DCAA	91		30-150	B



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-10  
 Client ID: WC09\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 14:30  
 Date Received: 06/20/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 06/28/24 15:25  
 Analyst: EJL  
 Percent Solids: 84%

Extraction Method: EPA 3546  
 Extraction Date: 06/27/24 01:16  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 06/28/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/28/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.84	0.360	1	B
Lindane	ND		ug/kg	0.766	0.342	1	B
Alpha-BHC	ND		ug/kg	0.766	0.218	1	B
Beta-BHC	ND		ug/kg	1.84	0.697	1	B
Heptachlor	ND		ug/kg	0.919	0.412	1	B
Aldrin	ND		ug/kg	1.84	0.647	1	B
Heptachlor epoxide	ND		ug/kg	3.45	1.03	1	B
Endrin	ND		ug/kg	0.766	0.314	1	B
Endrin aldehyde	ND		ug/kg	2.30	0.804	1	B
Endrin ketone	ND		ug/kg	1.84	0.474	1	B
Dieldrin	ND		ug/kg	1.15	0.575	1	B
4,4'-DDE	ND		ug/kg	1.84	0.425	1	B
4,4'-DDD	ND		ug/kg	1.84	0.656	1	B
4,4'-DDT	ND		ug/kg	1.84	1.48	1	B
Endosulfan I	ND		ug/kg	1.84	0.434	1	B
Endosulfan II	ND		ug/kg	1.84	0.614	1	B
Endosulfan sulfate	ND		ug/kg	0.766	0.365	1	B
Methoxychlor	ND		ug/kg	3.45	1.07	1	B
Toxaphene	ND		ug/kg	34.5	9.65	1	B
cis-Chlordane	ND		ug/kg	2.30	0.640	1	B
trans-Chlordane	ND		ug/kg	2.30	0.607	1	B
Chlordane	ND		ug/kg	15.3	6.09	1	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-10  
 Client ID: WC09\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 14:30  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	4	Q	30-150	A
Decachlorobiphenyl	27	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	378	Q	30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-10  
 Client ID: WC09\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 14:30  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/26/24 21:42  
 Analyst: EMR  
 Percent Solids: 84%  
 Methylation Date: 06/26/24 09:03

Extraction Method: EPA 8151A  
 Extraction Date: 06/25/24 20:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	197	12.4	1	A
2,4,5-T	ND		ug/kg	197	6.11	1	A
2,4,5-TP (Silvex)	ND		ug/kg	197	5.25	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	77		30-150	A
DCAA	79		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-17  
 Client ID: WC17\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 15:20  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 06/27/24 19:22  
 Analyst: KAB  
 Percent Solids: 77%  
 TCLP/SPLP Ext. Date: 06/24/24 17:23

Extraction Method: EPA 3510C  
 Extraction Date: 06/27/24 01:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>TCLP Pesticides by EPA 1311 - Westborough Lab</b>							
Lindane	ND		ug/l	0.100	0.022	1	A
Heptachlor	ND		ug/l	0.100	0.016	1	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	1	A
Endrin	ND		ug/l	0.200	0.021	1	A
Methoxychlor	ND		ug/l	1.00	0.034	1	A
Toxaphene	ND		ug/l	1.00	0.314	1	A
Chlordane	ND		ug/l	1.00	0.232	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	99		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	100		30-150	B
Decachlorobiphenyl	121		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2435013-17  
**Client ID:** WC17\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/20/24 15:20  
**Date Received:** 06/20/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 06/28/24 15:37  
**Analyst:** EJL  
**Percent Solids:** 77%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/27/24 01:16  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 06/28/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/28/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	2.03	0.398	1	A
Lindane	ND		ug/kg	0.848	0.379	1	A
Alpha-BHC	ND		ug/kg	0.848	0.241	1	A
Beta-BHC	ND		ug/kg	2.03	0.771	1	A
Heptachlor	ND		ug/kg	1.02	0.456	1	A
Aldrin	ND		ug/kg	2.03	0.716	1	A
Heptachlor epoxide	ND		ug/kg	3.81	1.14	1	A
Endrin	ND		ug/kg	0.848	0.348	1	A
Endrin aldehyde	ND		ug/kg	2.54	0.890	1	A
Endrin ketone	ND		ug/kg	2.03	0.524	1	A
Dieldrin	ND		ug/kg	1.27	0.636	1	A
4,4'-DDE	ND		ug/kg	2.03	0.470	1	A
4,4'-DDD	ND		ug/kg	2.03	0.726	1	A
4,4'-DDT	ND		ug/kg	2.03	1.64	1	A
Endosulfan I	ND		ug/kg	2.03	0.481	1	A
Endosulfan II	ND		ug/kg	2.03	0.680	1	A
Endosulfan sulfate	ND		ug/kg	0.848	0.404	1	A
Methoxychlor	ND		ug/kg	3.81	1.19	1	A
Toxaphene	ND		ug/kg	38.1	10.7	1	A
cis-Chlordane	ND		ug/kg	2.54	0.709	1	A
trans-Chlordane	ND		ug/kg	2.54	0.671	1	A
Chlordane	ND		ug/kg	17.0	6.74	1	A

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-17  
 Client ID: WC17\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 15:20  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	47		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	173	Q	30-150	B

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435013**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2435013-17  
 Client ID: WC17\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 15:20  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/26/24 22:35  
 Analyst: EMR  
 Percent Solids: 77%  
 TCLP/SPLP Ext. Date: 06/24/24 17:23  
 Methylation Date: 06/26/24 11:45

Extraction Method: EPA 8151A  
 Extraction Date: 06/26/24 04:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Herbicides by EPA 1311 - Westborough Lab							
2,4-D	ND		mg/l	0.025	0.001	1	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	48		30-150	A
DCAA	48		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

Lab ID: L2435013-17  
 Client ID: WC17\_COMP\_4-9  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 15:20  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/26/24 22:00  
 Analyst: EMR  
 Percent Solids: 77%  
 Methylation Date: 06/26/24 10:45

Extraction Method: EPA 8151A  
 Extraction Date: 06/25/24 20:38

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	212	13.4	1	A
2,4,5-T	ND		ug/kg	212	6.57	1	A
2,4,5-TP (Silvex)	ND		ug/kg	212	5.64	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	68		30-150	A
DCAA	73		30-150	B



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8151A  
Analytical Date: 06/26/24 16:07  
Analyst: EMR

Extraction Method: EPA 8151A  
Extraction Date: 06/25/24 14:12

Methylation Date: 06/26/24 09:03

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01,08,10,17 Batch: WG1939158-1						
2,4-D	ND		ug/kg	163	10.2	A
2,4,5-T	ND		ug/kg	163	5.04	A
2,4,5-TP (Silvex)	ND		ug/kg	163	4.33	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	106		30-150	A
DCAA	107		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8151A  
Analytical Date: 06/26/24 12:51  
Analyst: MMG  
TCLP/SPLP Extraction Date: 06/24/24 17:23  
Methylation Date: 06/26/24 11:45

Extraction Method: EPA 8151A  
Extraction Date: 06/26/24 04:33

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Herbicides by EPA 1311 - Westborough Lab for sample(s): 17 Batch: WG1939403-1						
2,4-D	ND		mg/l	0.025	0.001	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	40		30-150	A
DCAA	42		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis  
 Batch Quality Control**

Analytical Method: 1,8081B  
 Analytical Date: 06/27/24 05:42  
 Analyst: MMG

Extraction Method: EPA 3546  
 Extraction Date: 06/26/24 07:39  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 06/27/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/27/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,08,10,17 Batch: WG1939414-1						
Delta-BHC	ND		ug/kg	1.59	0.312	A
Lindane	ND		ug/kg	0.664	0.297	A
Alpha-BHC	ND		ug/kg	0.664	0.189	A
Beta-BHC	ND		ug/kg	1.59	0.605	A
Heptachlor	ND		ug/kg	0.797	0.357	A
Aldrin	ND		ug/kg	1.59	0.561	A
Heptachlor epoxide	ND		ug/kg	2.99	0.897	A
Endrin	ND		ug/kg	0.664	0.272	A
Endrin aldehyde	ND		ug/kg	1.99	0.698	A
Endrin ketone	ND		ug/kg	1.59	0.411	A
Dieldrin	ND		ug/kg	0.997	0.498	A
4,4'-DDE	ND		ug/kg	1.59	0.369	A
4,4'-DDD	ND		ug/kg	1.59	0.569	A
4,4'-DDT	ND		ug/kg	1.59	1.28	A
Endosulfan I	ND		ug/kg	1.59	0.377	A
Endosulfan II	ND		ug/kg	1.59	0.533	A
Endosulfan sulfate	ND		ug/kg	0.664	0.316	A
Methoxychlor	ND		ug/kg	2.99	0.930	A
Toxaphene	ND		ug/kg	29.9	8.37	A
cis-Chlordane	ND		ug/kg	1.99	0.555	A
trans-Chlordane	ND		ug/kg	1.99	0.526	A
Chlordane	ND		ug/kg	13.3	5.28	A

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 06/27/24 05:42  
Analyst: MMG

Extraction Method: EPA 3546  
Extraction Date: 06/26/24 07:39  
Cleanup Method: EPA 3620B  
Cleanup Date: 06/27/24  
Cleanup Method: EPA 3660B  
Cleanup Date: 06/27/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01,08,10,17 Batch: WG1939414-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	87		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 06/27/24 18:19  
Analyst: KAB  
TCLP/SPLP Extraction Date: 06/24/24 17:23

Extraction Method: EPA 3510C  
Extraction Date: 06/27/24 01:56

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Pesticides by EPA 1311 - Westborough Lab for sample(s): 17 Batch: WG1940001-1						
Lindane	ND		ug/l	0.100	0.022	A
Heptachlor	ND		ug/l	0.100	0.016	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	A
Endrin	ND		ug/l	0.200	0.021	A
Methoxychlor	ND		ug/l	1.00	0.034	A
Toxaphene	ND		ug/l	1.00	0.314	A
Chlordane	ND		ug/l	1.00	0.232	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	104		30-150	A
Decachlorobiphenyl	100		30-150	A
2,4,5,6-Tetrachloro-m-xylene	106		30-150	B
Decachlorobiphenyl	128		30-150	B

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01,08,10,17 Batch: WG1939158-2 WG1939158-3									
2,4-D	97		101		30-150	4		30	A
2,4,5-T	102		99		30-150	3		30	A
2,4,5-TP (Silvex)	97		95		30-150	2		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	102		97		30-150	A
DCAA	114		112		30-150	B

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Herbicides by EPA 1311 - Westborough Lab Associated sample(s): 17 Batch: WG1939403-2 WG1939403-3									
2,4-D	75		83		30-150	10		25	A
2,4,5-TP (Silvex)	34		40		30-150	16		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	49		54		30-150	A
DCAA	30		36		30-150	B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,08,10,17 Batch: WG1939414-2 WG1939414-3									
Delta-BHC	77		69		30-150	11		30	A
Lindane	72		70		30-150	3		30	A
Alpha-BHC	72		69		30-150	4		30	A
Beta-BHC	76		74		30-150	3		30	A
Heptachlor	72		68		30-150	6		30	A
Aldrin	72		68		30-150	6		30	A
Heptachlor epoxide	67		63		30-150	6		30	A
Endrin	78		73		30-150	7		30	A
Endrin aldehyde	70		64		30-150	9		30	A
Endrin ketone	79		73		30-150	8		30	A
Dieldrin	79		74		30-150	7		30	A
4,4'-DDE	74		70		30-150	6		30	A
4,4'-DDD	79		74		30-150	7		30	A
4,4'-DDT	73		69		30-150	6		30	A
Endosulfan I	72		68		30-150	6		30	A
Endosulfan II	76		71		30-150	7		30	A
Endosulfan sulfate	73		67		30-150	9		30	A
Methoxychlor	86		78		30-150	10		30	A
cis-Chlordane	67		64		30-150	5		30	A
trans-Chlordane	63		60		30-150	5		30	A



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01,08,10,17 Batch: WG1939414-2 WG1939414-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	56		51		30-150	A
Decachlorobiphenyl	57		59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		60		30-150	B
Decachlorobiphenyl	66		65		30-150	B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2435013

Report Date: 06/30/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Pesticides by EPA 1311 - Westborough Lab Associated sample(s): 17 Batch: WG1940001-2 WG1940001-3									
Lindane	98		103		30-150	5		20	A
Heptachlor	94		96		30-150	3		20	A
Heptachlor epoxide	100		104		30-150	4		20	A
Endrin	104		109		30-150	5		20	A
Methoxychlor	106		107		30-150	1		20	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		96		30-150	A
Decachlorobiphenyl	93		94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	97		98		30-150	B
Decachlorobiphenyl	115		116		30-150	B

## METALS

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435013**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2435013-01

Date Collected: 06/20/24 11:55

Client ID: WC04\_COMP\_0-4

Date Received: 06/20/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/24/24 17:23

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	0.0291	J	mg/l	1.00	0.0190	1	06/26/24 22:16	06/27/24 08:59	EPA 3015	1,6010D	DMC
Barium, TCLP	0.515		mg/l	0.500	0.0210	1	06/26/24 22:16	06/27/24 08:59	EPA 3015	1,6010D	DMC
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/24 22:16	06/27/24 08:59	EPA 3015	1,6010D	DMC
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/24 22:16	06/27/24 08:59	EPA 3015	1,6010D	DMC
Lead, TCLP	1.38		mg/l	0.500	0.0270	1	06/26/24 22:16	06/27/24 08:59	EPA 3015	1,6010D	DMC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/24 16:00	06/27/24 10:10	EPA 7470A	1,7470A	MJR
Selenium, TCLP	0.0510	J	mg/l	0.500	0.0350	1	06/26/24 22:16	06/27/24 08:59	EPA 3015	1,6010D	DMC
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/24 22:16	06/27/24 08:59	EPA 3015	1,6010D	DMC



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

## SAMPLE RESULTS

Lab ID: L2435013-01  
 Client ID: WC04\_COMP\_0-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/20/24 11:55  
 Date Received: 06/20/24  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil  
 Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	3540		mg/kg	9.02	2.44	2	06/26/24 01:36	06/26/24 18:08	EPA 3050B	1,6010D	DMC
Antimony, Total	4.68		mg/kg	4.51	0.343	2	06/26/24 01:36	06/26/24 18:08	EPA 3050B	1,6010D	DMC
Arsenic, Total	9.24		mg/kg	0.902	0.188	2	06/26/24 01:36	06/26/24 18:08	EPA 3050B	1,6010D	DMC
Barium, Total	74.7		mg/kg	0.902	0.157	2	06/26/24 01:36	06/26/24 18:08	EPA 3050B	1,6010D	DMC
Beryllium, Total	0.166	J	mg/kg	0.451	0.030	2	06/26/24 01:36	06/26/24 18:08	EPA 3050B	1,6010D	DMC
Cadmium, Total	0.111	J	mg/kg	0.902	0.088	2	06/26/24 01:36	06/26/24 18:08	EPA 3050B	1,6010D	DMC
Calcium, Total	29400		mg/kg	9.02	3.16	2	06/26/24 01:36	06/26/24 18:08	EPA 3050B	1,6010D	DMC
Chromium, Total	9.77		mg/kg	0.902	0.087	2	06/26/24 01:36	06/26/24 18:08	EPA 3050B	1,6010D	DMC
Cobalt, Total	5.15		mg/kg	1.80	0.150	2	06/26/24 01:36	06/26/24 18:08	EPA 3050B	1,6010D	DMC
Copper, Total	89.5		mg/kg	0.902	0.233	2	06/26/24 01:36	06/26/24 18:08	EPA 3050B	1,6010D	DMC
Iron, Total	11200		mg/kg	4.51	0.814	2	06/26/24 01:36	06/26/24 18:08	EPA 3050B	1,6010D	DMC
Lead, Total	805		mg/kg	4.51	0.242	2	06/26/24 01:36	06/26/24 18:08	EPA 3050B	1,6010D	DMC
Magnesium, Total	3180		mg/kg	9.02	1.39	2	06/26/24 01:36	06/26/24 18:08	EPA 3050B	1,6010D	DMC
Manganese, Total	145		mg/kg	0.902	0.143	2	06/26/24 01:36	06/26/24 18:08	EPA 3050B	1,6010D	DMC
Mercury, Total	0.407		mg/kg	0.079	0.052	1	06/26/24 02:21	06/27/24 01:17	EPA 7471B	1,7471B	MJR
Nickel, Total	15.3		mg/kg	2.26	0.218	2	06/26/24 01:36	06/26/24 18:08	EPA 3050B	1,6010D	DMC
Potassium, Total	661		mg/kg	226	13.0	2	06/26/24 01:36	06/26/24 18:08	EPA 3050B	1,6010D	DMC
Selenium, Total	ND		mg/kg	1.80	0.233	2	06/26/24 01:36	06/26/24 18:08	EPA 3050B	1,6010D	DMC
Silver, Total	ND		mg/kg	0.451	0.255	2	06/26/24 01:36	06/26/24 18:08	EPA 3050B	1,6010D	DMC
Sodium, Total	139	J	mg/kg	180	2.84	2	06/26/24 01:36	06/26/24 18:08	EPA 3050B	1,6010D	DMC
Thallium, Total	ND		mg/kg	1.80	0.284	2	06/26/24 01:36	06/26/24 18:08	EPA 3050B	1,6010D	DMC
Vanadium, Total	11.7		mg/kg	0.902	0.183	2	06/26/24 01:36	06/26/24 18:08	EPA 3050B	1,6010D	DMC
Zinc, Total	108		mg/kg	4.51	0.264	2	06/26/24 01:36	06/26/24 18:08	EPA 3050B	1,6010D	DMC
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	9.77		mg/kg	0.957	0.191	1		06/27/24 12:53	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435013**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2435013-08

Date Collected: 06/20/24 00:00

Client ID: DUP02\_COMP\_062024

Date Received: 06/20/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/24/24 17:23

Matrix: Soil

Percent Solids: 78%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/26/24 22:16	06/27/24 09:05	EPA 3015	1,6010D	DMC
Barium, TCLP	0.517		mg/l	0.500	0.0210	1	06/26/24 22:16	06/27/24 09:05	EPA 3015	1,6010D	DMC
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/24 22:16	06/27/24 09:05	EPA 3015	1,6010D	DMC
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/24 22:16	06/27/24 09:05	EPA 3015	1,6010D	DMC
Lead, TCLP	1.04		mg/l	0.500	0.0270	1	06/26/24 22:16	06/27/24 09:05	EPA 3015	1,6010D	DMC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/24 16:00	06/27/24 10:13	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/24 22:16	06/27/24 09:05	EPA 3015	1,6010D	DMC
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/24 22:16	06/27/24 09:05	EPA 3015	1,6010D	DMC



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

## SAMPLE RESULTS

Lab ID: L2435013-08

Date Collected: 06/20/24 00:00

Client ID: DUP02\_COMP\_062024

Date Received: 06/20/24

Sample Location: 145-165 WOLCOTT STREET

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
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	3670		mg/kg	10.1	2.72	2	06/26/24 01:36	06/26/24 18:13	EPA 3050B	1,6010D	DMC
Antimony, Total	5.00	J	mg/kg	5.04	0.383	2	06/26/24 01:36	06/26/24 18:13	EPA 3050B	1,6010D	DMC
Arsenic, Total	11.1		mg/kg	1.01	0.210	2	06/26/24 01:36	06/26/24 18:13	EPA 3050B	1,6010D	DMC
Barium, Total	80.0		mg/kg	1.01	0.175	2	06/26/24 01:36	06/26/24 18:13	EPA 3050B	1,6010D	DMC
Beryllium, Total	0.168	J	mg/kg	0.504	0.033	2	06/26/24 01:36	06/26/24 18:13	EPA 3050B	1,6010D	DMC
Cadmium, Total	0.105	J	mg/kg	1.01	0.099	2	06/26/24 01:36	06/26/24 18:13	EPA 3050B	1,6010D	DMC
Calcium, Total	29800		mg/kg	10.1	3.53	2	06/26/24 01:36	06/26/24 18:13	EPA 3050B	1,6010D	DMC
Chromium, Total	10.6		mg/kg	1.01	0.097	2	06/26/24 01:36	06/26/24 18:13	EPA 3050B	1,6010D	DMC
Cobalt, Total	5.23		mg/kg	2.02	0.167	2	06/26/24 01:36	06/26/24 18:13	EPA 3050B	1,6010D	DMC
Copper, Total	50.9		mg/kg	1.01	0.260	2	06/26/24 01:36	06/26/24 18:13	EPA 3050B	1,6010D	DMC
Iron, Total	14800		mg/kg	5.04	0.910	2	06/26/24 01:36	06/26/24 18:13	EPA 3050B	1,6010D	DMC
Lead, Total	600		mg/kg	5.04	0.270	2	06/26/24 01:36	06/26/24 18:13	EPA 3050B	1,6010D	DMC
Magnesium, Total	7480		mg/kg	10.1	1.55	2	06/26/24 01:36	06/26/24 18:13	EPA 3050B	1,6010D	DMC
Manganese, Total	173		mg/kg	1.01	0.160	2	06/26/24 01:36	06/26/24 18:13	EPA 3050B	1,6010D	DMC
Mercury, Total	1.81		mg/kg	0.082	0.053	1	06/26/24 02:21	06/27/24 01:20	EPA 7471B	1,7471B	MJR
Nickel, Total	15.4		mg/kg	2.52	0.244	2	06/26/24 01:36	06/26/24 18:13	EPA 3050B	1,6010D	DMC
Potassium, Total	717		mg/kg	252	14.5	2	06/26/24 01:36	06/26/24 18:13	EPA 3050B	1,6010D	DMC
Selenium, Total	ND		mg/kg	2.02	0.260	2	06/26/24 01:36	06/26/24 18:13	EPA 3050B	1,6010D	DMC
Silver, Total	ND		mg/kg	0.504	0.285	2	06/26/24 01:36	06/26/24 18:13	EPA 3050B	1,6010D	DMC
Sodium, Total	144	J	mg/kg	202	3.17	2	06/26/24 01:36	06/26/24 18:13	EPA 3050B	1,6010D	DMC
Thallium, Total	ND		mg/kg	2.02	0.317	2	06/26/24 01:36	06/26/24 18:13	EPA 3050B	1,6010D	DMC
Vanadium, Total	13.1		mg/kg	1.01	0.204	2	06/26/24 01:36	06/26/24 18:13	EPA 3050B	1,6010D	DMC
Zinc, Total	108		mg/kg	5.04	0.295	2	06/26/24 01:36	06/26/24 18:13	EPA 3050B	1,6010D	DMC
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	10.6		mg/kg	1.02	0.204	1		06/27/24 12:53	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435013**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2435013-10

Date Collected: 06/20/24 14:30

Client ID: WC09\_COMP\_0-4

Date Received: 06/20/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/24/24 17:23

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/26/24 22:16	06/27/24 09:55	EPA 3015	1,6010D	DMC
Barium, TCLP	0.681		mg/l	0.500	0.0210	1	06/26/24 22:16	06/27/24 09:55	EPA 3015	1,6010D	DMC
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/24 22:16	06/27/24 09:55	EPA 3015	1,6010D	DMC
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/24 22:16	06/27/24 09:55	EPA 3015	1,6010D	DMC
Lead, TCLP	0.568		mg/l	0.500	0.0270	1	06/26/24 22:16	06/27/24 09:55	EPA 3015	1,6010D	DMC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/24 16:00	06/27/24 10:23	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/24 22:16	06/27/24 09:55	EPA 3015	1,6010D	DMC
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/24 22:16	06/27/24 09:55	EPA 3015	1,6010D	DMC





Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

## SAMPLE RESULTS

Lab ID: L2435013-10

Date Collected: 06/20/24 14:30

Client ID: WC09\_COMP\_0-4

Date Received: 06/20/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	3290		mg/kg	9.10	2.46	2	06/26/24 01:36	06/26/24 18:19	EPA 3050B	1,6010D	DMC
Antimony, Total	2.88	J	mg/kg	4.55	0.346	2	06/26/24 01:36	06/26/24 18:19	EPA 3050B	1,6010D	DMC
Arsenic, Total	15.4		mg/kg	0.910	0.189	2	06/26/24 01:36	06/26/24 18:19	EPA 3050B	1,6010D	DMC
Barium, Total	111		mg/kg	0.910	0.158	2	06/26/24 01:36	06/26/24 18:19	EPA 3050B	1,6010D	DMC
Beryllium, Total	0.214	J	mg/kg	0.455	0.030	2	06/26/24 01:36	06/26/24 18:19	EPA 3050B	1,6010D	DMC
Cadmium, Total	0.313	J	mg/kg	0.910	0.089	2	06/26/24 01:36	06/26/24 18:19	EPA 3050B	1,6010D	DMC
Calcium, Total	11800		mg/kg	9.10	3.18	2	06/26/24 01:36	06/26/24 18:19	EPA 3050B	1,6010D	DMC
Chromium, Total	10.7		mg/kg	0.910	0.087	2	06/26/24 01:36	06/26/24 18:19	EPA 3050B	1,6010D	DMC
Cobalt, Total	7.19		mg/kg	1.82	0.151	2	06/26/24 01:36	06/26/24 18:19	EPA 3050B	1,6010D	DMC
Copper, Total	134		mg/kg	0.910	0.235	2	06/26/24 01:36	06/26/24 18:19	EPA 3050B	1,6010D	DMC
Iron, Total	22900		mg/kg	9.10	1.64	4	06/26/24 01:36	06/26/24 19:07	EPA 3050B	1,6010D	DMC
Lead, Total	580		mg/kg	4.55	0.244	2	06/26/24 01:36	06/26/24 18:19	EPA 3050B	1,6010D	DMC
Magnesium, Total	1270		mg/kg	9.10	1.40	2	06/26/24 01:36	06/26/24 18:19	EPA 3050B	1,6010D	DMC
Manganese, Total	230		mg/kg	0.910	0.145	2	06/26/24 01:36	06/26/24 18:19	EPA 3050B	1,6010D	DMC
Mercury, Total	0.648		mg/kg	0.075	0.049	1	06/26/24 02:21	06/27/24 01:24	EPA 7471B	1,7471B	MJR
Nickel, Total	17.6		mg/kg	2.28	0.220	2	06/26/24 01:36	06/26/24 18:19	EPA 3050B	1,6010D	DMC
Potassium, Total	649		mg/kg	228	13.1	2	06/26/24 01:36	06/26/24 18:19	EPA 3050B	1,6010D	DMC
Selenium, Total	0.837	J	mg/kg	1.82	0.235	2	06/26/24 01:36	06/26/24 18:19	EPA 3050B	1,6010D	DMC
Silver, Total	ND		mg/kg	0.455	0.258	2	06/26/24 01:36	06/26/24 18:19	EPA 3050B	1,6010D	DMC
Sodium, Total	210		mg/kg	182	2.87	2	06/26/24 01:36	06/26/24 18:19	EPA 3050B	1,6010D	DMC
Thallium, Total	ND		mg/kg	1.82	0.287	2	06/26/24 01:36	06/26/24 18:19	EPA 3050B	1,6010D	DMC
Vanadium, Total	15.9		mg/kg	0.910	0.185	2	06/26/24 01:36	06/26/24 18:19	EPA 3050B	1,6010D	DMC
Zinc, Total	180		mg/kg	4.55	0.267	2	06/26/24 01:36	06/26/24 18:19	EPA 3050B	1,6010D	DMC
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	10.7		mg/kg	0.950	0.190	1		06/27/24 12:53	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435013**Project Number:** 170562203**Report Date:** 06/30/24**SAMPLE RESULTS**

Lab ID: L2435013-17

Date Collected: 06/20/24 15:20

Client ID: WC17\_COMP\_4-9

Date Received: 06/20/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/24/24 17:23

Matrix: Soil

Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/26/24 22:16	06/27/24 10:01	EPA 3015	1,6010D	DMC
Barium, TCLP	0.552		mg/l	0.500	0.0210	1	06/26/24 22:16	06/27/24 10:01	EPA 3015	1,6010D	DMC
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/24 22:16	06/27/24 10:01	EPA 3015	1,6010D	DMC
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/24 22:16	06/27/24 10:01	EPA 3015	1,6010D	DMC
Lead, TCLP	3.08		mg/l	0.500	0.0270	1	06/26/24 22:16	06/27/24 10:01	EPA 3015	1,6010D	DMC
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/24 16:00	06/27/24 10:29	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/24 22:16	06/27/24 10:01	EPA 3015	1,6010D	DMC
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/24 22:16	06/27/24 10:01	EPA 3015	1,6010D	DMC



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

## SAMPLE RESULTS

Lab ID: L2435013-17

Date Collected: 06/20/24 15:20

Client ID: WC17\_COMP\_4-9

Date Received: 06/20/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	2990		mg/kg	9.99	2.70	2	06/26/24 01:36	06/26/24 18:46	EPA 3050B	1,6010D	DMC
Antimony, Total	1.57	J	mg/kg	5.00	0.380	2	06/26/24 01:36	06/26/24 18:46	EPA 3050B	1,6010D	DMC
Arsenic, Total	7.57		mg/kg	0.999	0.208	2	06/26/24 01:36	06/26/24 18:46	EPA 3050B	1,6010D	DMC
Barium, Total	51.1		mg/kg	0.999	0.174	2	06/26/24 01:36	06/26/24 18:46	EPA 3050B	1,6010D	DMC
Beryllium, Total	0.112	J	mg/kg	0.500	0.033	2	06/26/24 01:36	06/26/24 18:46	EPA 3050B	1,6010D	DMC
Cadmium, Total	0.151	J	mg/kg	0.999	0.098	2	06/26/24 01:36	06/26/24 18:46	EPA 3050B	1,6010D	DMC
Calcium, Total	2960		mg/kg	9.99	3.50	2	06/26/24 01:36	06/26/24 18:46	EPA 3050B	1,6010D	DMC
Chromium, Total	11.2		mg/kg	0.999	0.096	2	06/26/24 01:36	06/26/24 18:46	EPA 3050B	1,6010D	DMC
Cobalt, Total	2.38		mg/kg	2.00	0.166	2	06/26/24 01:36	06/26/24 18:46	EPA 3050B	1,6010D	DMC
Copper, Total	17.0		mg/kg	0.999	0.258	2	06/26/24 01:36	06/26/24 18:46	EPA 3050B	1,6010D	DMC
Iron, Total	8390		mg/kg	5.00	0.902	2	06/26/24 01:36	06/26/24 18:46	EPA 3050B	1,6010D	DMC
Lead, Total	554		mg/kg	5.00	0.268	2	06/26/24 01:36	06/26/24 18:46	EPA 3050B	1,6010D	DMC
Magnesium, Total	1170		mg/kg	9.99	1.54	2	06/26/24 01:36	06/26/24 18:46	EPA 3050B	1,6010D	DMC
Manganese, Total	54.7		mg/kg	0.999	0.159	2	06/26/24 01:36	06/26/24 18:46	EPA 3050B	1,6010D	DMC
Mercury, Total	0.166		mg/kg	0.082	0.054	1	06/26/24 02:21	06/27/24 01:27	EPA 7471B	1,7471B	MJR
Nickel, Total	8.04		mg/kg	2.50	0.242	2	06/26/24 01:36	06/26/24 18:46	EPA 3050B	1,6010D	DMC
Potassium, Total	595		mg/kg	250	14.4	2	06/26/24 01:36	06/26/24 18:46	EPA 3050B	1,6010D	DMC
Selenium, Total	ND		mg/kg	2.00	0.258	2	06/26/24 01:36	06/26/24 18:46	EPA 3050B	1,6010D	DMC
Silver, Total	ND		mg/kg	0.500	0.283	2	06/26/24 01:36	06/26/24 18:46	EPA 3050B	1,6010D	DMC
Sodium, Total	174	J	mg/kg	200	3.15	2	06/26/24 01:36	06/26/24 18:46	EPA 3050B	1,6010D	DMC
Thallium, Total	ND		mg/kg	2.00	0.315	2	06/26/24 01:36	06/26/24 18:46	EPA 3050B	1,6010D	DMC
Vanadium, Total	11.2		mg/kg	0.999	0.203	2	06/26/24 01:36	06/26/24 18:46	EPA 3050B	1,6010D	DMC
Zinc, Total	63.7		mg/kg	5.00	0.293	2	06/26/24 01:36	06/26/24 18:46	EPA 3050B	1,6010D	DMC
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	11.2		mg/kg	1.04	0.207	1		06/27/24 12:53	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

## 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): 01,08,10,17 Batch: WG1939092-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	06/26/24 01:36	06/26/24 12:30	1,6010D	HJM
Antimony, Total	ND		mg/kg	2.00	0.152	1	06/26/24 01:36	06/26/24 12:30	1,6010D	HJM
Arsenic, Total	ND		mg/kg	0.400	0.083	1	06/26/24 01:36	06/26/24 12:30	1,6010D	HJM
Barium, Total	ND		mg/kg	0.400	0.070	1	06/26/24 01:36	06/26/24 12:30	1,6010D	HJM
Beryllium, Total	ND		mg/kg	0.200	0.013	1	06/26/24 01:36	06/26/24 12:30	1,6010D	HJM
Cadmium, Total	ND		mg/kg	0.400	0.039	1	06/26/24 01:36	06/26/24 12:30	1,6010D	HJM
Calcium, Total	ND		mg/kg	4.00	1.40	1	06/26/24 01:36	06/26/24 12:30	1,6010D	HJM
Chromium, Total	ND		mg/kg	0.400	0.038	1	06/26/24 01:36	06/26/24 12:30	1,6010D	HJM
Cobalt, Total	ND		mg/kg	0.800	0.066	1	06/26/24 01:36	06/26/24 12:30	1,6010D	HJM
Copper, Total	ND		mg/kg	0.400	0.103	1	06/26/24 01:36	06/26/24 12:30	1,6010D	HJM
Iron, Total	1.05	J	mg/kg	2.00	0.361	1	06/26/24 01:36	06/26/24 12:30	1,6010D	HJM
Lead, Total	ND		mg/kg	2.00	0.107	1	06/26/24 01:36	06/26/24 12:30	1,6010D	HJM
Magnesium, Total	ND		mg/kg	4.00	0.616	1	06/26/24 01:36	06/26/24 12:30	1,6010D	HJM
Manganese, Total	ND		mg/kg	0.400	0.064	1	06/26/24 01:36	06/26/24 12:30	1,6010D	HJM
Nickel, Total	ND		mg/kg	1.00	0.097	1	06/26/24 01:36	06/26/24 12:30	1,6010D	HJM
Potassium, Total	ND		mg/kg	100	5.76	1	06/26/24 01:36	06/26/24 12:30	1,6010D	HJM
Selenium, Total	ND		mg/kg	0.800	0.103	1	06/26/24 01:36	06/26/24 12:30	1,6010D	HJM
Silver, Total	ND		mg/kg	0.200	0.113	1	06/26/24 01:36	06/26/24 12:30	1,6010D	HJM
Sodium, Total	ND		mg/kg	80.0	1.26	1	06/26/24 01:36	06/26/24 12:30	1,6010D	HJM
Thallium, Total	ND		mg/kg	0.800	0.126	1	06/26/24 01:36	06/26/24 12:30	1,6010D	HJM
Vanadium, Total	ND		mg/kg	0.400	0.081	1	06/26/24 01:36	06/26/24 12:30	1,6010D	HJM
Zinc, Total	ND		mg/kg	2.00	0.117	1	06/26/24 01:36	06/26/24 12:30	1,6010D	HJM

### 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): 01,08,10,17 Batch: WG1939095-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	06/26/24 02:21	06/27/24 00:34	1,7471B	MJR



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

## Method Blank Analysis Batch Quality Control

### Prep Information

Digestion Method: EPA 7471B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01,08,10,17 Batch: WG1939605-1										
Arsenic, TCLP	0.0302	J	mg/l	1.00	0.0190	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC
Barium, TCLP	ND		mg/l	0.500	0.0210	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC
Lead, TCLP	ND		mg/l	0.500	0.0270	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC

### Prep Information

Digestion Method: EPA 3015  
TCLP/SPLP Extraction Date: 06/23/24 23:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 01,08,10,17 Batch: WG1939608-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/24 16:00	06/27/24 09:46	1,7470A	MJR

### Prep Information

Digestion Method: EPA 7470A  
TCLP/SPLP Extraction Date: 06/23/24 23:19

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2435013

**Project Number:** 170562203

**Report Date:** 06/30/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
Total Metals - Mansfield Lab Associated sample(s): 01,08,10,17 Batch: WG1939092-2								
Aluminum, Total	114		-		80-120	-		
Antimony, Total	102		-		80-120	-		
Arsenic, Total	103		-		80-120	-		
Barium, Total	111		-		80-120	-		
Beryllium, Total	109		-		80-120	-		
Cadmium, Total	99		-		80-120	-		
Calcium, Total	105		-		80-120	-		
Chromium, Total	102		-		80-120	-		
Cobalt, Total	100		-		80-120	-		
Copper, Total	106		-		80-120	-		
Iron, Total	111		-		80-120	-		
Lead, Total	102		-		80-120	-		
Magnesium, Total	100		-		80-120	-		
Manganese, Total	106		-		80-120	-		
Nickel, Total	99		-		80-120	-		
Potassium, Total	110		-		80-120	-		
Selenium, Total	100		-		80-120	-		
Silver, Total	106		-		80-120	-		
Sodium, Total	110		-		80-120	-		
Thallium, Total	104		-		80-120	-		
Vanadium, Total	103		-		80-120	-		

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2435013

**Report Date:** 06/30/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
<b>Total Metals - Mansfield Lab Associated sample(s): 01,08,10,17 Batch: WG1939092-2</b>					
Zinc, Total	96	-	80-120	-	
<b>Total Metals - Mansfield Lab Associated sample(s): 01,08,10,17 Batch: WG1939095-2</b>					
Mercury, Total	100	-	80-120	-	
<b>TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,08,10,17 Batch: WG1939605-2</b>					
Arsenic, TCLP	98	-	75-125	-	20
Barium, TCLP	102	-	75-125	-	20
Cadmium, TCLP	100	-	75-125	-	20
Chromium, TCLP	98	-	75-125	-	20
Lead, TCLP	104	-	75-125	-	20
Selenium, TCLP	96	-	75-125	-	20
Silver, TCLP	96	-	75-125	-	20
<b>TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,08,10,17 Batch: WG1939608-2</b>					
Mercury, TCLP	90	-	80-120	-	

### Matrix Spike Analysis Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,08,10,17 QC Batch ID: WG1939092-3 QC Sample: L2434681-01 Client ID: MS Sample												
Aluminum, Total	4560	208	4770	101		-	-		75-125	-		20
Antimony, Total	ND	51.9	53.2	102		-	-		75-125	-		20
Arsenic, Total	1.03J	12.5	12.7	102		-	-		75-125	-		20
Barium, Total	45.1	208	259	103		-	-		75-125	-		20
Beryllium, Total	0.187J	5.19	5.48	106		-	-		75-125	-		20
Cadmium, Total	ND	5.5	5.42	98		-	-		75-125	-		20
Calcium, Total	10900	1040	12300	135	Q	-	-		75-125	-		20
Chromium, Total	10.1	20.8	29.2	92		-	-		75-125	-		20
Cobalt, Total	4.78	51.9	56.8	100		-	-		75-125	-		20
Copper, Total	12.5	26	40.0	106		-	-		75-125	-		20
Iron, Total	9860	104	10200	327	Q	-	-		75-125	-		20
Lead, Total	2.12J	55	57.3	104		-	-		75-125	-		20
Magnesium, Total	6490	1040	7570	104		-	-		75-125	-		20
Manganese, Total	185	51.9	232	90		-	-		75-125	-		20
Nickel, Total	9.77	51.9	60.3	97		-	-		75-125	-		20
Potassium, Total	1610	1040	2620	97		-	-		75-125	-		20
Selenium, Total	ND	12.5	12.4	99		-	-		75-125	-		20
Silver, Total	ND	5.19	5.28	102		-	-		75-125	-		20
Sodium, Total	103J	1040	1210	116		-	-		75-125	-		20
Thallium, Total	ND	12.5	12.4	99		-	-		75-125	-		20
Vanadium, Total	13.0	51.9	64.5	99		-	-		75-125	-		20



### Matrix Spike Analysis Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

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): 01,08,10,17 QC Batch ID: WG1939092-3 QC Sample: L2434681-01 Client ID: MS Sample									
Zinc, Total	20.8	51.9	70.9	96	-	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 01,08,10,17 QC Batch ID: WG1939095-3 QC Sample: L2434571-01 Client ID: MS Sample									
Mercury, Total	0.467	1.75	1.94	84	-	-	80-120	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,08,10,17 QC Batch ID: WG1939605-3 QC Sample: L2433604-01 Client ID: MS Sample									
Arsenic, TCLP	ND	1.2	1.26	105	-	-	75-125	-	20
Barium, TCLP	0.186J	20	20.9	104	-	-	75-125	-	20
Cadmium, TCLP	ND	0.53	0.551	104	-	-	75-125	-	20
Chromium, TCLP	ND	2	2.05	102	-	-	75-125	-	20
Lead, TCLP	0.0359J	5.3	5.54	104	-	-	75-125	-	20
Selenium, TCLP	ND	1.2	1.25	104	-	-	75-125	-	20
Silver, TCLP	ND	0.5	0.517	103	-	-	75-125	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,08,10,17 QC Batch ID: WG1939608-3 QC Sample: L2433604-01 Client ID: MS Sample									
Mercury, TCLP	ND	0.025	0.0242	97	-	-	75-125	-	20

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2435013

Report Date: 06/30/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01,08,10,17 QC Batch ID: WG1939092-4 QC Sample: L2434681-01 Client ID: DUP Sample						
Aluminum, Total	4560	4330	mg/kg	5		20
Antimony, Total	ND	ND	mg/kg	NC		20
Arsenic, Total	1.03J	1.10	mg/kg	NC		20
Barium, Total	45.1	43.1	mg/kg	5		20
Beryllium, Total	0.187J	0.179J	mg/kg	NC		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Calcium, Total	10900	11400	mg/kg	4		20
Chromium, Total	10.1	9.37	mg/kg	7		20
Cobalt, Total	4.78	4.79	mg/kg	0		20
Copper, Total	12.5	12.2	mg/kg	2		20
Iron, Total	9860	9900	mg/kg	0		20
Lead, Total	2.12J	2.33J	mg/kg	NC		20
Magnesium, Total	6490	6510	mg/kg	0		20
Manganese, Total	185	178	mg/kg	4		20
Nickel, Total	9.77	8.96	mg/kg	9		20
Potassium, Total	1610	1480	mg/kg	8		20
Selenium, Total	ND	ND	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Sodium, Total	103J	111J	mg/kg	NC		20

**Lab Duplicate Analysis**  
*Batch Quality Control*

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
<b>Total Metals - Mansfield Lab Associated sample(s): 01,08,10,17 QC Batch ID: WG1939092-4 QC Sample: L2434681-01 Client ID: DUP Sample</b>					
Thallium, Total	ND	ND	mg/kg	NC	20
Vanadium, Total	13.0	13.1	mg/kg	1	20
Zinc, Total	20.8	20.1	mg/kg	3	20
<b>Total Metals - Mansfield Lab Associated sample(s): 01,08,10,17 QC Batch ID: WG1939095-4 QC Sample: L2434571-01 Client ID: DUP Sample</b>					
Mercury, Total	0.467	0.271	mg/kg	53 Q	20
<b>TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,08,10,17 QC Batch ID: WG1939605-4 QC Sample: L2433604-01 Client ID: DUP Sample</b>					
Arsenic, TCLP	ND	ND	mg/l	NC	20
Barium, TCLP	0.186J	0.201J	mg/l	NC	20
Cadmium, TCLP	ND	ND	mg/l	NC	20
Chromium, TCLP	ND	ND	mg/l	NC	20
Lead, TCLP	0.0359J	0.0346J	mg/l	NC	20
Selenium, TCLP	ND	ND	mg/l	NC	20
Silver, TCLP	ND	ND	mg/l	NC	20
<b>TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 01,08,10,17 QC Batch ID: WG1939608-4 QC Sample: L2433604-01 Client ID: DUP Sample</b>					
Mercury, TCLP	ND	ND	mg/l	NC	20



# **INORGANICS & MISCELLANEOUS**

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

### SAMPLE RESULTS

**Lab ID:** L2435013-01  
**Client ID:** WC04\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/20/24 11:55  
**Date Received:** 06/20/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Wet Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/26/24 15:32	1,1030	GEF



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

### SAMPLE RESULTS

**Lab ID:** L2435013-08  
**Client ID:** DUP02\_COMP\_062024  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/20/24 00:00  
**Date Received:** 06/20/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Wet Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/26/24 15:32	1,1030	GEF



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

### SAMPLE RESULTS

**Lab ID:** L2435013-10  
**Client ID:** WC09\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/20/24 14:30  
**Date Received:** 06/20/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Wet Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/26/24 15:32	1,1030	GEF



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

### SAMPLE RESULTS

**Lab ID:** L2435013-17  
**Client ID:** WC17\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/20/24 15:20  
**Date Received:** 06/20/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Wet Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/26/24 15:32	1,1030	GEF





**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2435013-01  
**Client ID:** WC04\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/20/24 11:55  
**Date Received:** 06/20/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	83.6		%	0.100	NA	1	-	06/21/24 13:09	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.1	0.24	1	06/26/24 20:10	06/27/24 16:10	1,9010C/9012B	JER
pH (H)	7.72		SU	-	NA	1	-	06/25/24 01:31	1,9045D	CAR
Chromium, Hexavalent	ND		mg/kg	0.957	0.191	1	06/26/24 10:51	06/27/24 12:53	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/26/24 15:45	06/26/24 17:00	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/26/24 15:45	06/26/24 17:13	125,7.3	JLB



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

## SAMPLE RESULTS

Lab ID: L2435013-02

Date Collected: 06/20/24 11:00

Client ID: WC04B\_GRAB\_2-4

Date Received: 06/20/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.2		%	0.100	NA	1	-	06/21/24 13:09	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2435013-08  
**Client ID:** DUP02\_COMP\_062024  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/20/24 00:00  
**Date Received:** 06/20/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	78.4		%	0.100	NA	1	-	06/21/24 13:09	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	06/26/24 20:10	06/27/24 16:11	1,9010C/9012B	JER
pH (H)	8.21		SU	-	NA	1	-	06/25/24 01:31	1,9045D	CAR
Chromium, Hexavalent	ND		mg/kg	1.02	0.204	1	06/26/24 10:51	06/27/24 12:53	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/26/24 15:45	06/26/24 17:00	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/26/24 15:45	06/26/24 17:14	125,7.3	JLB



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2435013-09  
**Client ID:** DUP02\_GRAB\_062024  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/20/24 00:00  
**Date Received:** 06/20/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	87.5		%	0.100	NA	1	-	06/21/24 13:09	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2435013-10  
**Client ID:** WC09\_COMP\_0-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/20/24 14:30  
**Date Received:** 06/20/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	84.2		%	0.100	NA	1	-	06/21/24 13:09	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	06/26/24 20:10	06/27/24 16:14	1,9010C/9012B	JER
pH (H)	7.72		SU	-	NA	1	-	06/25/24 01:31	1,9045D	CAR
Chromium, Hexavalent	ND		mg/kg	0.950	0.190	1	06/26/24 10:51	06/27/24 12:53	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/26/24 15:45	06/26/24 17:01	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/26/24 15:45	06/26/24 17:14	125,7.3	JLB



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

## SAMPLE RESULTS

Lab ID: L2435013-11

Date Collected: 06/20/24 14:00

Client ID: WC09B\_GRAB\_2-4

Date Received: 06/20/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	77.2		%	0.100	NA	1	-	06/21/24 13:09	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**SAMPLE RESULTS**

**Lab ID:** L2435013-17  
**Client ID:** WC17\_COMP\_4-9  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/20/24 15:20  
**Date Received:** 06/20/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	77.2		%	0.100	NA	1	-	06/21/24 13:09	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	06/26/24 20:10	06/27/24 16:15	1,9010C/9012B	JER
pH (H)	8.21		SU	-	NA	1	-	06/25/24 01:31	1,9045D	CAR
Chromium, Hexavalent	ND		mg/kg	1.04	0.207	1	06/26/24 10:51	06/27/24 12:53	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/26/24 15:45	06/26/24 17:01	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/26/24 15:45	06/26/24 17:14	125,7.3	JLB
Paint Filter Liquid	Negative		-	0	NA	1	-	06/26/24 18:28	1,9095B	AAS



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435013

Project Number: 170562203

Report Date: 06/30/24

## SAMPLE RESULTS

Lab ID: L2435013-18

Date Collected: 06/20/24 14:50

Client ID: WC09A\_GRAB\_7-9

Date Received: 06/20/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	91.6		%	0.100	NA	1	-	06/21/24 13:09	121,2540G	ROI





**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Method Blank Analysis**  
**Batch Quality Control**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01,08,10,17 Batch: WG1939554-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	06/26/24 10:51	06/27/24 12:53	1,7196A	RDS
General Chemistry - Westborough Lab for sample(s): 01,08,10,17 Batch: WG1939754-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/26/24 15:45	06/26/24 16:58	125,7.3	JLB
General Chemistry - Westborough Lab for sample(s): 01,08,10,17 Batch: WG1939756-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/26/24 15:45	06/26/24 17:12	125,7.3	JLB
General Chemistry - Westborough Lab for sample(s): 01,08,10,17 Batch: WG1939893-1										
Cyanide, Total	ND		mg/kg	0.95	0.20	1	06/26/24 20:10	06/27/24 15:27	1,9010C/9012B	JER

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2435013

**Report Date:** 06/30/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 01,08,10,17 Batch: WG1938802-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 01,08,10,17 Batch: WG1939554-2								
Chromium, Hexavalent	83		-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 01,08,10,17 Batch: WG1939754-2								
Cyanide, Reactive	86		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01,08,10,17 Batch: WG1939756-2								
Sulfide, Reactive	106		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 01,08,10,17 Batch: WG1939893-2 WG1939893-3								
Cyanide, Total	98		111		80-120	11		35

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2435013

**Project Number:** 170562203

**Report Date:** 06/30/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,08,10,17 QC Batch ID: WG1939554-4 QC Sample: L2435013-01 Client ID: WC04_COMP_0-4												
Chromium, Hexavalent	ND	1450	1360	94		-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 01,08,10,17 QC Batch ID: WG1939893-4 WG1939893-5 QC Sample: L2435013-08 Client ID: DUP02_COMP_062024												
Cyanide, Total	ND	12	12	100		13	100		75-125	0		35

**Lab Duplicate Analysis**  
*Batch Quality Control*

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435013  
**Report Date:** 06/30/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02,08-11,17-18 QC Batch ID: WG1937538-1 QC Sample: L2434963-01 Client ID: DUP Sample						
Solids, Total	85.1	85.1	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01,08,10,17 QC Batch ID: WG1938802-2 QC Sample: L2434581-03 Client ID: DUP Sample						
pH	6.92	6.96	SU	1		5
General Chemistry - Westborough Lab Associated sample(s): 01,08,10,17 QC Batch ID: WG1939554-6 QC Sample: L2435013-01 Client ID: WC04_COMP_0-4						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 01,08,10,17 QC Batch ID: WG1939754-3 QC Sample: L2435025-03 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 01,08,10,17 QC Batch ID: WG1939756-3 QC Sample: L2435025-03 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Serial\_No:**06302415:59  
**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information**

<b>Cooler</b>	<b>Custody Seal</b>
A	Absent
B	Absent

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2435013-01A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.3	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),CU-TI(180),PB-TI(180),SE-TI(180),SB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)
L2435013-01B	Plastic 120ml unpreserved	B	NA		2.3	Y	Absent		NYTCL-8270(14),REACTS(14),IGNIT-1030(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2435013-01C	Plastic 120ml unpreserved	B	NA		2.3	Y	Absent		NYTCL-8270(14),REACTS(14),IGNIT-1030(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2435013-01D	Plastic 500ml unpreserved	B	NA		2.3	Y	Absent		-
L2435013-01X	Plastic 120ml HNO3 preserved Extracts	B	NA		2.3	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2435013-01X9	Tumble Vessel	B	NA		2.3	Y	Absent		-
L2435013-02A	Vial water preserved	B	NA		2.3	Y	Absent	21-JUN-24 09:38	NYTCL-8260HLW(14)
L2435013-02B	Vial water preserved	B	NA		2.3	Y	Absent	21-JUN-24 09:38	NYTCL-8260HLW(14)
L2435013-02C	Plastic 120ml unpreserved	B	NA		2.3	Y	Absent		TS(7)
L2435013-02D	Glass 120ml/4oz unpreserved	B	NA		2.3	Y	Absent		NJEPH-TPH-CAT1(14),NYTCL-8260HLW(14)
L2435013-02X	Vial MeOH preserved split	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14)
L2435013-03A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.3	Y	Absent		HOLD-METAL(180)
L2435013-03B	Glass 250ml/8oz unpreserved	B	NA		2.3	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435013-04A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.3	Y	Absent		HOLD-METAL(180)
L2435013-04B	Glass 250ml/8oz unpreserved	B	NA		2.3	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()

\*Values in parentheses indicate holding time in days



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Serial\_No:**06302415:59  
**Lab Number:** L2435013  
**Report Date:** 06/30/24

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2435013-05A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.3	Y	Absent		HOLD-METAL(180)
L2435013-05B	Glass 250ml/8oz unpreserved	B	NA		2.3	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435013-06A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.3	Y	Absent		HOLD-METAL(180)
L2435013-06B	Glass 250ml/8oz unpreserved	B	NA		2.3	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435013-07A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.3	Y	Absent		HOLD-METAL(180)
L2435013-07B	Glass 250ml/8oz unpreserved	B	NA		2.3	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435013-08A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.3	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),NI-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),HG-T(28),MN-TI(180),FE-TI(180),K-TI(180),CD-TI(180),CA-TI(180),NA-TI(180)
L2435013-08B	Plastic 120ml unpreserved	B	NA		2.3	Y	Absent		TCN-9010(14),NYTCL-8270(14),IGNIT-1030(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2435013-08C	Plastic 120ml unpreserved	B	NA		2.3	Y	Absent		TCN-9010(14),NYTCL-8270(14),IGNIT-1030(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2435013-08D	Plastic 500ml unpreserved	B	NA		2.3	Y	Absent		-
L2435013-08X	Plastic 120ml HNO3 preserved Extracts	B	NA		2.3	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2435013-08X9	Tumble Vessel	B	NA		2.3	Y	Absent		-
L2435013-09A	Vial MeOH preserved	B	NA		2.3	Y	Absent		NYTCL-8260HLW(14),NYTCL-8260H(14)
L2435013-09B	Vial water preserved	B	NA		2.3	Y	Absent	21-JUN-24 09:38	NYTCL-8260HLW(14),NYTCL-8260H(14)
L2435013-09C	Vial water preserved	B	NA		2.3	Y	Absent	21-JUN-24 09:38	NYTCL-8260HLW(14),NYTCL-8260H(14)
L2435013-09D	Plastic 120ml unpreserved	B	NA		2.3	Y	Absent		TS(7)
L2435013-09E	Glass 120ml/4oz unpreserved	B	NA		2.3	Y	Absent		NJEPH-TPH-CAT1(14)
L2435013-10A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	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),SE-TI(180),CU-TI(180),SB-TI(180),PB-TI(180),ZN-TI(180),V-TI(180),CO-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)

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**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2435013-10B	Plastic 120ml unpreserved	A	NA		2.2	Y	Absent		IGNIT-1030(14),TCN-9010(14),REACTS(14),NYTCL-8270(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2435013-10C	Plastic 120ml unpreserved	A	NA		2.2	Y	Absent		IGNIT-1030(14),TCN-9010(14),REACTS(14),NYTCL-8270(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2435013-10D	Plastic 500ml unpreserved	A	NA		2.2	Y	Absent		-
L2435013-10X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.2	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2435013-10X9	Tumble Vessel	A	NA		2.2	Y	Absent		-
L2435013-11A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L2435013-11B	Vial water preserved	A	NA		2.2	Y	Absent	21-JUN-24 09:38	NYTCL-8260HLW(14)
L2435013-11C	Vial water preserved	A	NA		2.2	Y	Absent	21-JUN-24 09:38	NYTCL-8260HLW(14)
L2435013-11D	Plastic 120ml unpreserved	A	NA		2.2	Y	Absent		TS(7)
L2435013-11E	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NJEPH-TPH-CAT1(14)
L2435013-12A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		HOLD-METAL(180)
L2435013-12B	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435013-13A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		HOLD-METAL(180)
L2435013-13B	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435013-14A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		HOLD-METAL(180)
L2435013-14B	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435013-15A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		HOLD-METAL(180)
L2435013-15B	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435013-16A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		HOLD-METAL(180)
L2435013-16B	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435013-17A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	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),SB-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),HG-T(28),FE-TI(180),MG-TI(180),MN-TI(180),NA-TI(180),CA-TI(180),CD-TI(180),K-TI(180)

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**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2435013-17B	Plastic 120ml unpreserved	A	NA		2.2	Y	Absent		IGNIT-1030(14),REACTS(14),TCN-9010(14),NYTCL-8270(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),PAINTF(),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2435013-17C	Plastic 120ml unpreserved	A	NA		2.2	Y	Absent		IGNIT-1030(14),REACTS(14),TCN-9010(14),NYTCL-8270(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),PAINTF(),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2435013-17D	Plastic 500ml unpreserved	A	NA		2.2	Y	Absent		IGNIT-1030(14),REACTS(14),TCN-9010(14),NYTCL-8270(14),TS(7),PH-9045(1),NYTCL-8081(14),PAINTF(),REACTCN(14),HEXCR-7196(30)
L2435013-17E	Plastic 500ml unpreserved	A	NA		2.2	Y	Absent		-
L2435013-17X	Plastic 120ml HNO3 preserved Extracts	A	NA		2.2	Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2435013-17X9	Tumble Vessel	A	NA		2.2	Y	Absent		-
L2435013-17Z	Amber 1000ml unpreserved Extracts	NA	NA			Y	Absent		TCLP-8270(14),HERB-TCLP*(14),PEST-TCLP*(14)
L2435013-18A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L2435013-18B	Vial water preserved	A	NA		2.2	Y	Absent	21-JUN-24 09:38	NYTCL-8260HLW(14)
L2435013-18C	Vial water preserved	A	NA		2.2	Y	Absent	21-JUN-24 09:38	NYTCL-8260HLW(14)
L2435013-18D	Plastic 120ml unpreserved	A	NA		2.2	Y	Absent		TS(7)
L2435013-18E	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NJEPH-TPH-CAT1(14)
L2435013-18F	Vial Large Septa unpreserved (4oz)	A	NA		2.2	Y	Absent		TCLP-EXT-ZHE(14)
L2435013-18S	Vial unpreserved Extracts	A	NA		2.2	Y	Absent		TCLP-VOA(14)
L2435013-18T	Vial unpreserved Extracts	A	NA		2.2	Y	Absent		TCLP-VOA(14)
L2435013-19A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		HOLD-METAL(180)
L2435013-19B	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435013-20A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		HOLD-METAL(180)
L2435013-20B	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435013-21A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		HOLD-METAL(180)
L2435013-21B	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()

\*Values in parentheses indicate holding time in days





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**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2435013-22A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		HOLD-METAL(180)
L2435013-22B	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435013-23A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		HOLD-METAL(180)
L2435013-23B	Glass 250ml/8oz unpreserved	A	NA		2.2	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()

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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.

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### 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

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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.)

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## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 103 Analysis of Extractable Petroleum Hydrocarbon Compounds (EPH) in Aqueous and Soil/Sediment/Sludge Matrices. New Jersey Department of Environmental Protection, Site Remediation Program, (Version 1.1), Document # NJDEP EPH 10/08, Revision 3, August 2010.
- 107 Alpha Analytical - In-house calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

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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, NO<sub>2</sub>, NO<sub>3</sub>.

### 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

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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.

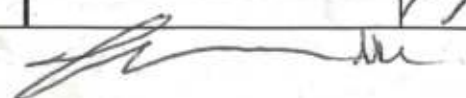

**SM2340B**

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For a complete listing of analytes and methods, please contact your Alpha Project Manager.




 <b>NEW YORK CHAIN OF CUSTODY</b>	<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page 1 1 of 3	Date Rec'd in Lab <b>6/21/24</b>	ALPHA Job # <b>L2435013</b>
	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	<b>Project Information</b> Project Name: 145-165 Wolcott Street Project Location: 145-165 Wolcott Street Project #: 170562203 (Use Project name as Project #) <input type="checkbox"/>	
<b>Client Information</b> Client: Langan Address: 360 West 31st Street, 8th Floor New York, NY 10001 Phone: 212.479.5400 Fax: Email: npalumbo@langan.com		<b>Deliverables</b> <input checked="" type="checkbox"/> ASP-A <input checked="" type="checkbox"/> ASP-B <input type="checkbox"/> EquiS (1 File) <input type="checkbox"/> EquiS (4 File) <input type="checkbox"/> Other		
Project Manager: Nicholas Palumbo ALPHAQuote #: <b>Turn-Around Time</b> Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		<b>Regulatory Requirement</b> <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		
These samples have been previously analyzed by Alpha <input type="checkbox"/> <b>Other project specific requirements/comments:</b> Copy lgrose@langan.com, and DataManagement@langan.com on laboratory results  Please specify Metals or TAL.		<b>Disposal Site Information</b> Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:		
<b>ALPHA Lab ID (Lab Use Only)</b> <b>Sample ID</b> <b>Collection Date</b> <b>Time</b> <b>Sample Matrix</b> <b>Sampler's Initials</b>		<b>ANALYSIS</b> Group A    Group B    Group C    Group D <b>GROUP E - HOLD</b>		
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other		<b>Sample Filtration</b> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <b>Preservation</b> <input type="checkbox"/> Lab to do (Please Specify below)  <b>Sample Specific Comments</b>		
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: Lisa Cristiano/Langan Date/Time: 6/20/24 15:50		Received By: [Signature] Date/Time: 6/20/24 18:00		
Form No: 01-25 (rev. 30-Sept-2013)		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 <u>TERMS &amp; CONDITIONS.</u>		

    6/21/24 1300  
    6/21/24 0150



 <b>NEW YORK CHAIN OF CUSTODY</b>		<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105		Page <b>2 of 3</b>		Date Rec'd In Lab <b>6/21/24</b>		ALPHA Job # <b>L2435013</b>																																																																																																																																					
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<b>Client Information</b> Client: <b>Langan</b> Address: <b>360 W 31st St, 8th Floor</b> <b>New York, NY 10001</b> Phone: <b>(212) 479-5400</b> Fax: Email: <b>npalumbo@langan.com</b>		Project # <b>170562203</b> (Use Project name as Project #) <input type="checkbox"/> Project Manager: <b>Nicholas Palumbo</b> ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		<b>Regulatory Requirement</b> <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		<b>Disposal Site Information</b> Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:																																																																																																																																							
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Other project specific requirements/comments: <b>Copy lgroscc@langan.com, and data@langan.com on laboratory results</b>						Group A Group B Group C Group D Group E-holds		Total Bottle																																																																																																																																					
Please specify Metals or TAL.						<table border="1"> <thead> <tr> <th rowspan="2">ALPHA Lab ID (Lab Use Only)</th> <th rowspan="2">Sample ID</th> <th colspan="2">Collection</th> <th rowspan="2">Sample Matrix</th> <th rowspan="2">Sampler's Initials</th> <th rowspan="2">Group A</th> <th rowspan="2">Group B</th> <th rowspan="2">Group C</th> <th rowspan="2">Group D</th> <th rowspan="2">Group E-holds</th> <th rowspan="2">Sample Specific Comments</th> </tr> <tr> <th>Date</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>35013</td> <td>-11 WCO9B GRAB-2-4</td> <td>6/20/24</td> <td>14:00</td> <td>S</td> <td>LC/MF</td> <td></td> <td>X</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>-12 WCO9A-3-4</td> <td></td> <td>14:05</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>-13 WCO9B-2-3</td> <td></td> <td>14:10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>-14 WCO9C-1-2</td> <td></td> <td>14:15</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>-15 WCO9D-0-1</td> <td></td> <td>14:20</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>-16 WCO9E-2-3</td> <td></td> <td>14:25</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>-17 WCO9F-COMP-4-9</td> <td></td> <td>15:20</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>-18 WCO9A-GRAB-7-9</td> <td></td> <td>14:50</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>-19 WCO9B-5-6</td> <td></td> <td>14:55</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>-20 WCO9C-7-8</td> <td></td> <td>15:00</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		ALPHA Lab ID (Lab Use Only)	Sample ID	Collection		Sample Matrix	Sampler's Initials	Group A	Group B	Group C	Group D	Group E-holds	Sample Specific Comments	Date	Time	35013	-11 WCO9B GRAB-2-4	6/20/24	14:00	S	LC/MF		X						-12 WCO9A-3-4		14:05										-13 WCO9B-2-3		14:10										-14 WCO9C-1-2		14:15										-15 WCO9D-0-1		14:20										-16 WCO9E-2-3		14:25										-17 WCO9F-COMP-4-9		15:20					X					-18 WCO9A-GRAB-7-9		14:50					X					-19 WCO9B-5-6		14:55					X					-20 WCO9C-7-8		15:00					X			
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Relinquished By: <b>[Signature]</b>		Date/Time: <b>6/20/24 15:50</b>		Received By: <b>[Signature]</b>		Date/Time: <b>6/20/24 15:50</b>		Date/Time: <b>6/21/24 0130</b>																																																																																																																																					



 <p><b>NEW YORK CHAIN OF CUSTODY</b></p>		<p><b>Service Centers</b>          Mahwah, NJ 07430: 35 Whitney Rd, Suite 5          Albany, NY 12205: 14 Walker Way          Tonawanda, NY 14150: 275 Cooper Ave, Suite 105</p>				<p>Page <b>3 of 3</b></p>		<p>Date Rec'd in Lab <b>6/21/24</b></p>		<p>ALPHA Job # <b>L2435013</b></p>	
<p>Westborough, MA 01581 8 Walkup Dr. TEL: 508-898-9220 FAX: 508-898-9193</p>		<p>Mansfield, MA 02048 320 Forbes Blvd TEL: 508-822-9000 FAX: 508-822-3288</p>		<p><b>Project Information</b>          Project Name: <b>145-165 Wolcott St</b>          Project Location: <b>145-165 Wolcott St</b>          Project # <b>170562203</b>          (Use Project name as Project #) <input type="checkbox"/></p>				<p><b>Deliverables:</b>  <input checked="" type="checkbox"/> ASP-A    <input type="checkbox"/> ASP-B  <input type="checkbox"/> EquIS (1 File)    <input type="checkbox"/> EquIS (4 File)  <input type="checkbox"/> Other</p>		<p><b>Billing Information</b>  <input checked="" type="checkbox"/> Same as Client Info          PO #</p>	
<p><b>Client Information</b>          Client: <b>Langan</b>          Address: <b>360 W 31st St, 8th Floor New York, NY, 10001</b>          Phone: <b>(212) 479-5400</b>          Fax:          Email: <b>npalumbo@langan.com</b></p>		<p><b>Project Manager:</b> <b>Nicholas Palumbo</b>  <b>ALPHAQuote #:</b>  <b>Turn-Around Time</b>          Standard <input checked="" type="checkbox"/> Due Date:          Rush (only if pre approved) <input type="checkbox"/> # of Days:</p>				<p><b>Regulatory Requirement</b>  <input type="checkbox"/> NY TOGS    <input checked="" type="checkbox"/> NY Part 375  <input type="checkbox"/> AWQ Standards    <input type="checkbox"/> NY CP-51  <input type="checkbox"/> NY Restricted Use    <input type="checkbox"/> Other  <input checked="" type="checkbox"/> NY Unrestricted Use  <input type="checkbox"/> NYC Sewer Discharge</p>		<p><b>Disposal Site Information</b>          Please identify below location of applicable disposal facilities.          Disposal Facility:  <input type="checkbox"/> NJ    <input type="checkbox"/> NY  <input type="checkbox"/> Other:</p>			
<p>These samples have been previously analyzed by Alpha <input type="checkbox"/></p>		<p><b>Other project specific requirements/comments:</b>  <b>copy logsheet langan.com and datamangement@langan.com on laboratory results</b></p>				<p><b>ANALYSIS</b></p>		<p><b>Sample Filtration</b>  <input type="checkbox"/> Done  <input type="checkbox"/> Lab to do  <b>Preservation</b>  <input type="checkbox"/> Lab to do          (Please Specify below)</p>		<p><b>TOTAL BOTTLES</b></p>	
<p>ALPHA Lab ID (Lab Use Only)</p>		<p>Sample ID</p>		<p>Collection Date    Time</p>		<p>Sample Matrix    Sampler's Initials</p>		<p>Sample Specific Comments</p>			
<p>35013</p>		<p>-21 WCO4D-4-5 -22 WCO9A-8-9 -23 WCO9B-6-7</p>		<p>HOLD HOLD HOLD</p>		<p>6/20/24 15:05 ↓ 15:10 ↓ 15:15</p>		<p>S ↓ ↓</p>		<p>GROUP A GROUP B GROUP C GROUP D GROUP E - HOLD XXX</p>	
<p>Preservative Code: A = None B = HCl C = HNO<sub>3</sub> D = H<sub>2</sub>SO<sub>4</sub> E = NaOH F = MeOH G = NaHSO<sub>4</sub> H = Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> K/E = Zn Ac/NaOH O = Other</p>		<p>Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle</p>		<p>Westboro: Certification No: MA935 Mansfield: Certification No: MA015</p>		<p>Container Type</p>		<p>Preservative</p>		<p>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 &amp; CONDITIONS. (See reverse side.)</p>	
<p>Relinquished By: <b>Lisa Cristiano</b></p>		<p>Date/Time <b>6/20/24 15:00</b></p>		<p>Received By: <b>Wmje...</b></p>		<p>Date/Time <b>6/20/24 18:00</b></p>		<p><b>6/20/24 18:00</b></p>		<p><b>6/21/24 0130</b></p>	

145-165 Wolcott Street  
Langan Project No.: 170562203

**Sample Analysis Reference Sheet**

**Group A**

Part 375/TCL/NJDEP/PADEP SVOCs

Pesticides

Herbicides

PCBs

Part 375/TAL Metals

Hexavalent Chromium

Trivalent Chromium

Total Cyanide

TCLP Metals

RCRA Characteristics

**Group B**

Part 375/TCL VOCs, NJDEP EPH

**Group C**

Part 375/TCL/NJDEP/PADEP SVOCs

Pesticides

Herbicides

PCBs

Part 375/TAL Metals

Hexavalent Chromium

Trivalent Chromium

Total Cyanide

TCLP Metals

RCRA Characteristics

Full TCLP (Minus VOCs)

Paint Filter

**Group D**

Part 375/TCL VOCs, TCLP VOCs, NJDEP EPH

**Group E - HOLD**

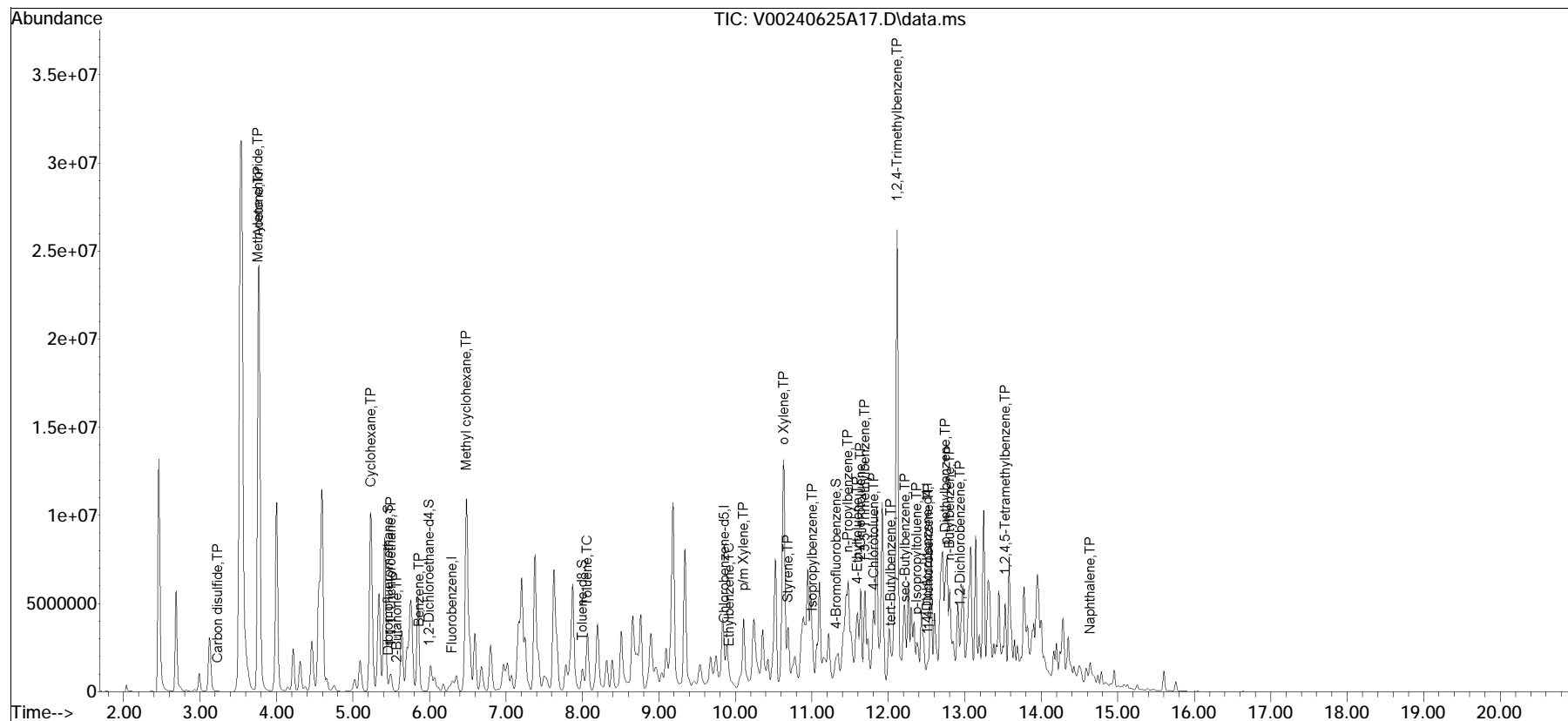
Total and TCLP Metals

## Quantitation Report (QT Reviewed)

Data Path : K:\VOA100\2024\240625A\  
Data File : V00240625A17.D  
Acq On : 25 Jun 2024 4:04 pm  
Operator : VOA100:AJK  
Sample : L2435013-09,31,5.59,5,,B  
Misc : WG1939577,ICAL21032  
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Jun 27 10:48:21 2024  
Quant Method : K:\VOA100\2024\240625A\V100\_240410N\_8260.m  
Quant Title : VOLATILES BY GC/MS  
QLast Update : Thu Apr 11 06:44:45 2024  
Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox25A02.D•



JOB: L2435417      REPORT STYLE: Data Usability Report  
0010: Alpha Analytical Report Cover Page - OK  
0015: Sample Cross Reference Summary - OK  
0060: Case Narrative - OK  
0100: Volatiles Cover Page - OK  
0110: Volatiles Sample Results - OK  
0120: Volatiles Method Blank Report - OK  
0130: Volatiles LCS Report - OK  
0180: Semivolatiles Cover Page - OK  
0190: Semivolatiles Sample Results - OK  
0200: Semivolatiles Method Blank Report - OK  
0210: Semivolatiles LCS Report - OK  
0400: Petroleum Cover Page - OK  
0410: Petroleum Sample Results - OK  
0420: Petroleum Method Blank Report - OK  
0430: Petroleum LCS Report - OK  
0460: Petroleum Duplicate Report - OK  
0700: PCBs Cover Page - OK  
0710: PCBs Sample Results - OK  
0720: PCBs Method Blank Report - OK  
0730: PCBs LCS Report - OK  
0900: Pesticides Cover Page - OK  
0910: Pesticides Sample Results - OK  
0920: Pesticides Method Blank Report - OK  
0930: Pesticides LCS Report - OK  
1005: Metals Sample Results - OK  
1010: Metals Method Blank Report - OK  
1020: Metals LCS Report - OK  
1040: Metals Matrix Spike Report - OK  
1050: Metals Duplicate Report - OK  
1060: Metals Serial Dilution Report - OK  
1180: Inorganics Cover Page - OK  
1190: Ignitability Results - OK  
1200: Wet Chemistry Sample Results - OK  
1210: Wet Chemistry Method Blank Report - OK  
1220: Wet Chemistry LCS Report - OK  
1240: Wet Chemistry Matrix Spike Report - OK  
1250: Wet Chemistry Duplicate Report - OK  
5100: Sample Receipt & Container Information Report - OK  
5200: Glossary - OK

Too many rows. We are stopping the contents here.

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No results found for sample L2435417-22 for product A2-ALCOHOL  
No results found for sample L2435417-22 for product A2-GLYCOL

No results found for sample L2435417-24 for product A2-ALCOHOL  
No results found for sample L2435417-24 for product A2-GLYCOL  
No results found for sample L2435417-26 for product A2-ALCOHOL  
No results found for sample L2435417-26 for product A2-GLYCOL



## ANALYTICAL REPORT

Lab Number:	L2435417
Client:	Langan Engineering & Environmental 21 Penn Plaza 360 W. 31st Street, 8th Floor New York, NY 10001-2727
ATTN:	Nicholas Palumbo
Phone:	(212) 479-5435
Project Name:	145-165 WOLCOTT STREET
Project Number:	170562203
Report Date:	07/01/24

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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).

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**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2435417-01	WC15C_GRAB_2-4	SOIL	145-165 WOLCOTT STREET	06/21/24 14:55	06/21/24
L2435417-02	WC15B_1-2	SOIL	145-165 WOLCOTT STREET	06/21/24 15:00	06/21/24
L2435417-03	WC15C_0-1	SOIL	145-165 WOLCOTT STREET	06/21/24 15:02	06/21/24
L2435417-04	WC15D_2-3	SOIL	145-165 WOLCOTT STREET	06/21/24 15:04	06/21/24
L2435417-05	WC15F_3-4	SOIL	145-165 WOLCOTT STREET	06/21/24 15:06	06/21/24
L2435417-06	WC15F_5-6	SOIL	145-165 WOLCOTT STREET	06/21/24 15:08	06/21/24
L2435417-07	WC15_COMP_0-6	SOIL	145-165 WOLCOTT STREET	06/21/24 15:10	06/21/24
L2435417-08	WC15F_GRAB_9-11	SOIL	145-165 WOLCOTT STREET	06/21/24 15:30	06/21/24
L2435417-09	WC15B_6-7	SOIL	145-165 WOLCOTT STREET	06/21/24 15:32	06/21/24
L2435417-10	WC15C_7-8	SOIL	145-165 WOLCOTT STREET	06/21/24 15:34	06/21/24
L2435417-11	WC15D_10-11	SOIL	145-165 WOLCOTT STREET	06/21/24 15:36	06/21/24
L2435417-12	WC15F_11-12	SOIL	145-165 WOLCOTT STREET	06/21/24 15:38	06/21/24
L2435417-13	WC15B_9-10	SOIL	145-165 WOLCOTT STREET	06/21/24 15:40	06/21/24
L2435417-14	WC15_COMP_6-12	SOIL	145-165 WOLCOTT STREET	06/21/24 15:45	06/21/24
L2435417-15	WC15F_GRAB_14-16	SOIL	145-165 WOLCOTT STREET	06/21/24 16:00	06/21/24
L2435417-16	WC15B_12-13	SOIL	145-165 WOLCOTT STREET	06/21/24 16:02	06/21/24
L2435417-17	WC15C_13-14	SOIL	145-165 WOLCOTT STREET	06/21/24 16:04	06/21/24
L2435417-18	WC15D_14-15	SOIL	145-165 WOLCOTT STREET	06/21/24 16:06	06/21/24
L2435417-19	WC15F_15-16	SOIL	145-165 WOLCOTT STREET	06/21/24 16:08	06/21/24
L2435417-20	WC15C_15-16	SOIL	145-165 WOLCOTT STREET	06/21/24 16:10	06/21/24
L2435417-21	WC15_COMP_12-16	SOIL	145-165 WOLCOTT STREET	06/21/24 16:15	06/21/24
L2435417-22	WC15E_GRAB_4-6	SOIL	145-165 WOLCOTT STREET	06/21/24 16:40	06/21/24
L2435417-23	WC21_COMP_0-6	SOIL	145-165 WOLCOTT STREET	06/21/24 16:45	06/21/24
L2435417-24	WC15E_GRAB_6-8	SOIL	145-165 WOLCOTT STREET	06/21/24 17:00	06/21/24

<b>Alpha Sample ID</b>	<b>Client ID</b>	<b>Matrix</b>	<b>Sample Location</b>	<b>Collection Date/Time</b>	<b>Receive Date</b>
L2435417-25	WC21_COMP_6-12	SOIL	145-165 WOLCOTT STREET	06/21/24 17:05	06/21/24
L2435417-26	WC15E_GRAB_13-15	SOIL	145-165 WOLCOTT STREET	06/21/24 13:15	06/21/24
L2435417-27	WC21_COMP_12-16	SOIL	145-165 WOLCOTT STREET	06/21/24 17:20	06/21/24



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

### 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.

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**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

### Case Narrative (continued)

#### Report Submission

July 01, 2024: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

#### Sample Receipt

The analyses performed were specified by the client.

L2435417-01 through -10: The collection date was specified by the client.

#### Volatile Organics

L2435417-15 and -22: The sample was analyzed as a High Level Methanol in order to quantitate results within the calibration range. The result should be considered estimated, and is qualified with an E flag, for any compound that exceeded the calibration on the initial Low Level analysis. The results of both analyses are reported.

L2435417-22: The surrogate recovery is outside the acceptance criteria for 4-bromofluorobenzene (154%); 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.

#### Semivolatile Organics

L2435417-07D, -14D, -21D, and -27D: The sample has elevated detection limits due to the dilution required by the sample matrix.

L2435417-07D, -14D, -23D, and -25D: The surrogate recoveries are below the acceptance criteria for 2-fluorophenol (0%), phenol-d6 (0%), nitrobenzene-d5 (0%), 2-fluorobiphenyl (0%), 2,4,6-tribromophenol (0%), and 4-terphenyl-d14 (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

L2435417-23D and -25D: The sample has elevated detection limits due to the dilution required by the matrix

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

### Case Narrative (continued)

interferences encountered during the concentration of the sample and the analytical dilution required by the sample matrix.

#### NJ EPH (Total)

L2435417-01D and WG1941486-5D: The sample has an elevated detection limit due to the limited sample volume utilized during extraction, as required by the sample matrix.

L2435417-01D, -08D, -24D, WG1940898-5D, and WG1941486-5D: The surrogate recoveries are below the acceptance criteria for chloro-octadecane (0%) and o-terphenyl (0%) due to the dilution required to quantitate the sample. Re-extraction was not required; therefore, the results of the original analysis are reported.

L2435417-15D: The surrogate recoveries are outside the acceptance criteria for chloro-octadecane (195%) and o-terphenyl (152%); however, the sample was not re-extracted due to coelution with obvious interferences.

L2435417-22: The surrogate recoveries were outside the acceptance criteria for chloro-octadecane (8%) and o-terphenyl (9%); however, re-extraction achieved similar results: chloro-octadecane (26%) and o-terphenyl (24%). The results of both extractions are reported.

L2435417-22RE: The sample has an elevated detection limit due to the dilution required by matrix interferences encountered during the concentration of the sample.

WG1940898: An MS was not performed because the dilution required by the native sample would have caused the spike compounds to be diluted below the range of calibration.

WG1941486: An MS/MSD was not analyzed because the dilution required by the native sample would have caused the spike compounds to be diluted below the range of calibration.

#### Pesticides

L2435417-07: The internal standard (IS) response for 1-bromo-2-nitrobenzene (235%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. Since the IS response was above method criteria, all associated compounds reported from this column are considered to have a potentially low bias. The surrogate recovery is outside the method acceptance criteria for

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

### Case Narrative (continued)

2,4,5,6-tetrachloro-m-xylene (22%) due to interference with the Internal Standard.

L2435417-21: The internal standard (IS) response for 1-bromo-2-nitrobenzene (247%) was above the acceptance criteria on column A; however, the sample was not re-analyzed due to obvious interferences. Since the IS response was above method criteria, all associated compounds reported from this column are considered to have a potentially low bias. The surrogate recoveries are outside the method acceptance criteria for 2,4,5,6-tetrachloro-m-xylene (27%) and decachlorobiphenyl (21%) due to interference with the Internal Standard.

#### Herbicides

L2435417-23: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

#### Total Metals

L2435417-07, -14, -21, -23, -25, and -27: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by the sample matrix.

#### Hexavalent Chromium

The WG1940160-2 LCS recovery for chromium, hexavalent (126%), associated with L2435417-07, -14, -21, -23, -25, and -27, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1940160-4 Insoluble MS recovery for chromium, hexavalent (46%), performed on L2435417-21, is below the acceptance criteria. The Soluble MS recovery for chromium, hexavalent (12%) was also below criteria. This has been attributed to matrix interference. A post-spike was performed with an acceptable recovery of 90%.

#### Cyanide, Total

The WG1940723-3 LCSD recovery for cyanide, total (70%), associated with L2435417-07, -14, -21, -23, -

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Case Narrative (continued)**

25, and -27, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Kelly O'Neill

Title: Technical Director/Representative

Date: 07/01/24

# ORGANICS

# VOLATILES

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-01  
 Client ID: WC15C\_GRAB\_2-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 14:55  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/27/24 15:14  
 Analyst: AJK  
 Percent Solids: 76%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	530	240	1
1,1-Dichloroethane	ND		ug/kg	100	15.	1
Chloroform	ND		ug/kg	160	15.	1
Carbon tetrachloride	ND		ug/kg	100	24.	1
1,2-Dichloropropane	ND		ug/kg	100	13.	1
Dibromochloromethane	ND		ug/kg	100	15.	1
1,1,2-Trichloroethane	ND		ug/kg	100	28.	1
Tetrachloroethene	ND		ug/kg	53	21.	1
Chlorobenzene	ND		ug/kg	53	13.	1
Trichlorofluoromethane	ND		ug/kg	420	73.	1
1,2-Dichloroethane	ND		ug/kg	100	27.	1
1,1,1-Trichloroethane	ND		ug/kg	53	18.	1
Bromodichloromethane	ND		ug/kg	53	12.	1
trans-1,3-Dichloropropene	ND		ug/kg	100	29.	1
cis-1,3-Dichloropropene	ND		ug/kg	53	17.	1
1,3-Dichloropropene, Total	ND		ug/kg	53	17.	1
1,1-Dichloropropene	ND		ug/kg	53	17.	1
Bromoform	ND		ug/kg	420	26.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	53	18.	1
Benzene	210		ug/kg	53	18.	1
Toluene	2500		ug/kg	100	57.	1
Ethylbenzene	2100		ug/kg	100	15.	1
Chloromethane	ND		ug/kg	420	98.	1
Bromomethane	ND		ug/kg	210	61.	1
Vinyl chloride	ND		ug/kg	100	35.	1
Chloroethane	ND		ug/kg	210	48.	1
1,1-Dichloroethene	ND		ug/kg	100	25.	1
trans-1,2-Dichloroethene	ND		ug/kg	160	14.	1



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

**Lab ID:** L2435417-01  
**Client ID:** WC15C\_GRAB\_2-4  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 14:55  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	53	14.	1
1,2-Dichlorobenzene	ND		ug/kg	210	15.	1
1,3-Dichlorobenzene	ND		ug/kg	210	16.	1
1,4-Dichlorobenzene	ND		ug/kg	210	18.	1
Methyl tert butyl ether	ND		ug/kg	210	21.	1
p/m-Xylene	6800		ug/kg	210	59.	1
o-Xylene	3300		ug/kg	100	31.	1
Xylenes, Total	10000		ug/kg	100	31.	1
cis-1,2-Dichloroethene	ND		ug/kg	100	18.	1
Dibromomethane	ND		ug/kg	210	25.	1
Styrene	ND		ug/kg	100	21.	1
Dichlorodifluoromethane	ND		ug/kg	1000	96.	1
Acetone	4000		ug/kg	1000	510	1
Carbon disulfide	ND		ug/kg	1000	480	1
2-Butanone	440	J	ug/kg	1000	230	1
Vinyl acetate	ND		ug/kg	1000	230	1
4-Methyl-2-pentanone	ND		ug/kg	1000	140	1
1,2,3-Trichloropropane	ND		ug/kg	210	13.	1
2-Hexanone	ND		ug/kg	1000	120	1
Bromochloromethane	ND		ug/kg	210	22.	1
2,2-Dichloropropane	ND		ug/kg	210	21.	1
1,2-Dibromoethane	ND		ug/kg	100	29.	1
1,3-Dichloropropane	ND		ug/kg	210	18.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	53	14.	1
Bromobenzene	ND		ug/kg	210	15.	1
n-Butylbenzene	1100		ug/kg	100	18.	1
sec-Butylbenzene	220		ug/kg	100	15.	1
tert-Butylbenzene	ND		ug/kg	210	12.	1
o-Chlorotoluene	ND		ug/kg	210	20.	1
p-Chlorotoluene	ND		ug/kg	210	11.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	320	100	1
Hexachlorobutadiene	ND		ug/kg	420	18.	1
Isopropylbenzene	640		ug/kg	100	12.	1
p-Isopropyltoluene	26000		ug/kg	100	12.	1
Naphthalene	11000		ug/kg	420	69.	1
Acrylonitrile	ND		ug/kg	420	120	1
Tert-Butyl Alcohol	ND		ug/kg	2100	540	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-01  
 Client ID: WC15C\_GRAB\_2-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 14:55  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
n-Propylbenzene	1200		ug/kg	100	18.	1
1,2,3-Trichlorobenzene	ND		ug/kg	210	34.	1
1,2,4-Trichlorobenzene	ND		ug/kg	210	29.	1
1,3,5-Trimethylbenzene	4600		ug/kg	210	20.	1
1,2,4-Trimethylbenzene	7600		ug/kg	210	35.	1
Methyl Acetate	5100		ug/kg	420	100	1
Acrolein	ND		ug/kg	2600	590	1
Cyclohexane	270	J	ug/kg	1000	57.	1
1,4-Dioxane	ND		ug/kg	8400	3700	1
Freon-113	ND		ug/kg	420	73.	1
p-Diethylbenzene	9300		ug/kg	210	19.	1
p-Ethyltoluene	8900		ug/kg	210	40.	1
1,2,4,5-Tetramethylbenzene	1300		ug/kg	210	20.	1
Ethyl ether	ND		ug/kg	210	36.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	530	150	1
Methyl cyclohexane	3100		ug/kg	420	64.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-08  
 Client ID: WC15F\_GRAB\_9-11  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 15:30  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/27/24 15:56  
 Analyst: LAC  
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	360	160	1
1,1-Dichloroethane	ND		ug/kg	71	10.	1
Chloroform	ND		ug/kg	110	10.	1
Carbon tetrachloride	ND		ug/kg	71	16.	1
1,2-Dichloropropane	ND		ug/kg	71	8.9	1
Dibromochloromethane	ND		ug/kg	71	10.	1
1,1,2-Trichloroethane	ND		ug/kg	71	19.	1
Tetrachloroethene	ND		ug/kg	36	14.	1
Chlorobenzene	ND		ug/kg	36	9.0	1
Trichlorofluoromethane	ND		ug/kg	280	50.	1
1,2-Dichloroethane	ND		ug/kg	71	18.	1
1,1,1-Trichloroethane	ND		ug/kg	36	12.	1
Bromodichloromethane	ND		ug/kg	36	7.8	1
trans-1,3-Dichloropropene	ND		ug/kg	71	19.	1
cis-1,3-Dichloropropene	ND		ug/kg	36	11.	1
1,3-Dichloropropene, Total	ND		ug/kg	36	11.	1
1,1-Dichloropropene	ND		ug/kg	36	11.	1
Bromoform	ND		ug/kg	280	18.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	36	12.	1
Benzene	ND		ug/kg	36	12.	1
Toluene	ND		ug/kg	71	39.	1
Ethylbenzene	290		ug/kg	71	10.	1
Chloromethane	ND		ug/kg	280	66.	1
Bromomethane	ND		ug/kg	140	41.	1
Vinyl chloride	ND		ug/kg	71	24.	1
Chloroethane	ND		ug/kg	140	32.	1
1,1-Dichloroethene	ND		ug/kg	71	17.	1
trans-1,2-Dichloroethene	ND		ug/kg	110	9.8	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435417**Project Number:** 170562203**Report Date:** 07/01/24**SAMPLE RESULTS**

Lab ID: L2435417-08  
 Client ID: WC15F\_GRAB\_9-11  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 15:30  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	36	9.8	1
1,2-Dichlorobenzene	ND		ug/kg	140	10.	1
1,3-Dichlorobenzene	ND		ug/kg	140	10.	1
1,4-Dichlorobenzene	ND		ug/kg	140	12.	1
Methyl tert butyl ether	ND		ug/kg	140	14.	1
p/m-Xylene	280		ug/kg	140	40.	1
o-Xylene	610		ug/kg	71	21.	1
Xylenes, Total	890		ug/kg	71	21.	1
cis-1,2-Dichloroethene	ND		ug/kg	71	12.	1
Dibromomethane	ND		ug/kg	140	17.	1
Styrene	ND		ug/kg	71	14.	1
Dichlorodifluoromethane	ND		ug/kg	710	65.	1
Acetone	410	J	ug/kg	710	340	1
Carbon disulfide	ND		ug/kg	710	320	1
2-Butanone	ND		ug/kg	710	160	1
Vinyl acetate	ND		ug/kg	710	150	1
4-Methyl-2-pentanone	ND		ug/kg	710	91.	1
1,2,3-Trichloropropane	ND		ug/kg	140	9.0	1
2-Hexanone	ND		ug/kg	710	84.	1
Bromochloromethane	ND		ug/kg	140	15.	1
2,2-Dichloropropane	ND		ug/kg	140	14.	1
1,2-Dibromoethane	ND		ug/kg	71	20.	1
1,3-Dichloropropane	ND		ug/kg	140	12.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	36	9.4	1
Bromobenzene	ND		ug/kg	140	10.	1
n-Butylbenzene	890		ug/kg	71	12.	1
sec-Butylbenzene	160		ug/kg	71	10.	1
tert-Butylbenzene	10	J	ug/kg	140	8.4	1
o-Chlorotoluene	ND		ug/kg	140	14.	1
p-Chlorotoluene	ND		ug/kg	140	7.7	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	210	71.	1
Hexachlorobutadiene	ND		ug/kg	280	12.	1
Isopropylbenzene	320		ug/kg	71	7.8	1
p-Isopropyltoluene	4700		ug/kg	71	7.8	1
Naphthalene	2300		ug/kg	280	46.	1
Acrylonitrile	ND		ug/kg	280	82.	1
Tert-Butyl Alcohol	ND		ug/kg	1400	370	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-08  
 Client ID: WC15F\_GRAB\_9-11  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 15:30  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
n-Propylbenzene	860		ug/kg	71	12.	1
1,2,3-Trichlorobenzene	ND		ug/kg	140	23.	1
1,2,4-Trichlorobenzene	ND		ug/kg	140	19.	1
1,3,5-Trimethylbenzene	1100		ug/kg	140	14.	1
1,2,4-Trimethylbenzene	4100		ug/kg	140	24.	1
Methyl Acetate	1300		ug/kg	280	68.	1
Acrolein	ND		ug/kg	1800	400	1
Cyclohexane	ND		ug/kg	710	39.	1
1,4-Dioxane	ND		ug/kg	5700	2500	1
Freon-113	ND		ug/kg	280	49.	1
p-Diethylbenzene	4800		ug/kg	140	13.	1
p-Ethyltoluene	1200		ug/kg	140	27.	1
1,2,4,5-Tetramethylbenzene	1000		ug/kg	140	14.	1
Ethyl ether	31	J	ug/kg	140	24.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	360	100	1
Methyl cyclohexane	600		ug/kg	280	43.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-15  
 Client ID: WC15F\_GRAB\_14-16  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:00  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/27/24 15:35  
 Analyst: LAC  
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	320	150	1
1,1-Dichloroethane	ND		ug/kg	64	9.3	1
Chloroform	ND		ug/kg	96	9.0	1
Carbon tetrachloride	ND		ug/kg	64	15.	1
1,2-Dichloropropane	ND		ug/kg	64	8.0	1
Dibromochloromethane	ND		ug/kg	64	9.0	1
1,1,2-Trichloroethane	ND		ug/kg	64	17.	1
Tetrachloroethene	ND		ug/kg	32	12.	1
Chlorobenzene	ND		ug/kg	32	8.1	1
Trichlorofluoromethane	ND		ug/kg	260	44.	1
1,2-Dichloroethane	ND		ug/kg	64	16.	1
1,1,1-Trichloroethane	ND		ug/kg	32	11.	1
Bromodichloromethane	ND		ug/kg	32	7.0	1
trans-1,3-Dichloropropene	ND		ug/kg	64	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	32	10.	1
1,3-Dichloropropene, Total	ND		ug/kg	32	10.	1
1,1-Dichloropropene	ND		ug/kg	32	10.	1
Bromoform	ND		ug/kg	260	16.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	32	11.	1
Benzene	15	J	ug/kg	32	11.	1
Toluene	ND		ug/kg	64	35.	1
Ethylbenzene	61	J	ug/kg	64	9.0	1
Chloromethane	ND		ug/kg	260	60.	1
Bromomethane	ND		ug/kg	130	37.	1
Vinyl chloride	ND		ug/kg	64	21.	1
Chloroethane	ND		ug/kg	130	29.	1
1,1-Dichloroethene	ND		ug/kg	64	15.	1
trans-1,2-Dichloroethene	ND		ug/kg	96	8.8	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435417**Project Number:** 170562203**Report Date:** 07/01/24**SAMPLE RESULTS**

Lab ID: L2435417-15  
 Client ID: WC15F\_GRAB\_14-16  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:00  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	32	8.8	1
1,2-Dichlorobenzene	ND		ug/kg	130	9.2	1
1,3-Dichlorobenzene	ND		ug/kg	130	9.5	1
1,4-Dichlorobenzene	ND		ug/kg	130	11.	1
Methyl tert butyl ether	ND		ug/kg	130	13.	1
p/m-Xylene	51	J	ug/kg	130	36.	1
o-Xylene	77		ug/kg	64	19.	1
Xylenes, Total	130	J	ug/kg	64	19.	1
cis-1,2-Dichloroethene	ND		ug/kg	64	11.	1
Dibromomethane	ND		ug/kg	130	15.	1
Styrene	ND		ug/kg	64	12.	1
Dichlorodifluoromethane	ND		ug/kg	640	59.	1
Acetone	310	J	ug/kg	640	310	1
Carbon disulfide	ND		ug/kg	640	290	1
2-Butanone	280	J	ug/kg	640	140	1
Vinyl acetate	ND		ug/kg	640	140	1
4-Methyl-2-pentanone	ND		ug/kg	640	82.	1
1,2,3-Trichloropropane	ND		ug/kg	130	8.1	1
2-Hexanone	ND		ug/kg	640	76.	1
Bromochloromethane	ND		ug/kg	130	13.	1
2,2-Dichloropropane	ND		ug/kg	130	13.	1
1,2-Dibromoethane	ND		ug/kg	64	18.	1
1,3-Dichloropropane	ND		ug/kg	130	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	32	8.5	1
Bromobenzene	ND		ug/kg	130	9.3	1
n-Butylbenzene	510		ug/kg	64	11.	1
sec-Butylbenzene	110		ug/kg	64	9.4	1
tert-Butylbenzene	7.6	J	ug/kg	130	7.6	1
o-Chlorotoluene	ND		ug/kg	130	12.	1
p-Chlorotoluene	ND		ug/kg	130	6.9	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	190	64.	1
Hexachlorobutadiene	ND		ug/kg	260	11.	1
Isopropylbenzene	240		ug/kg	64	7.0	1
p-Isopropyltoluene	170		ug/kg	64	7.0	1
Naphthalene	380		ug/kg	260	42.	1
Acrylonitrile	ND		ug/kg	260	74.	1
Tert-Butyl Alcohol	ND		ug/kg	1300	330	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-15  
 Client ID: WC15F\_GRAB\_14-16  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:00  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
n-Propylbenzene	580		ug/kg	64	11.	1
1,2,3-Trichlorobenzene	ND		ug/kg	130	21.	1
1,2,4-Trichlorobenzene	ND		ug/kg	130	17.	1
1,3,5-Trimethylbenzene	46	J	ug/kg	130	12.	1
1,2,4-Trimethylbenzene	950		ug/kg	130	21.	1
Methyl Acetate	ND		ug/kg	260	61.	1
Acrolein	ND		ug/kg	1600	360	1
Cyclohexane	98	J	ug/kg	640	35.	1
1,4-Dioxane	ND		ug/kg	5100	2200	1
Freon-113	ND		ug/kg	260	44.	1
p-Diethylbenzene	720		ug/kg	130	11.	1
p-Ethyltoluene	140		ug/kg	130	25.	1
1,2,4,5-Tetramethylbenzene	760		ug/kg	130	12.	1
Ethyl ether	ND		ug/kg	130	22.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	320	91.	1
Methyl cyclohexane	1100		ug/kg	260	39.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	120		70-130
Dibromofluoromethane	99		70-130



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-15  
 Client ID: WC15F\_GRAB\_14-16  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:00  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/28/24 10:19  
 Analyst: MKS  
 Percent Solids: 87%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	5.2	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
1,2-Dichloropropane	ND		ug/kg	1.0	0.13	1
Dibromochloromethane	ND		ug/kg	1.0	0.15	1
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.28	1
Tetrachloroethene	ND		ug/kg	0.52	0.20	1
Chlorobenzene	ND		ug/kg	0.52	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.2	0.72	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.52	0.17	1
Bromodichloromethane	ND		ug/kg	0.52	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.28	1
cis-1,3-Dichloropropene	ND		ug/kg	0.52	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.52	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.52	0.17	1
Bromoform	ND		ug/kg	4.2	0.26	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.52	0.17	1
Benzene	9.8		ug/kg	0.52	0.17	1
Toluene	3.3		ug/kg	1.0	0.57	1
Ethylbenzene	100		ug/kg	1.0	0.15	1
Chloromethane	ND		ug/kg	4.2	0.97	1
Bromomethane	ND		ug/kg	2.1	0.61	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
Chloroethane	ND		ug/kg	2.1	0.47	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

## SAMPLE RESULTS

Lab ID: L2435417-15  
 Client ID: WC15F\_GRAB\_14-16  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:00  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Trichloroethene	ND		ug/kg	0.52	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,4-Dichlorobenzene	0.35	J	ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	43		ug/kg	2.1	0.58	1
o-Xylene	70		ug/kg	1.0	0.30	1
Xylenes, Total	110		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Dibromomethane	ND		ug/kg	2.1	0.25	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.96	1
Acetone	230		ug/kg	10	5.0	1
Carbon disulfide	35		ug/kg	10	4.8	1
2-Butanone	ND		ug/kg	10	2.3	1
Vinyl acetate	ND		ug/kg	10	2.2	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.1	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.1	0.21	1
2,2-Dichloropropane	ND		ug/kg	2.1	0.21	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.29	1
1,3-Dichloropropane	ND		ug/kg	2.1	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.52	0.14	1
Bromobenzene	ND		ug/kg	2.1	0.15	1
n-Butylbenzene	130		ug/kg	1.0	0.17	1
sec-Butylbenzene	42		ug/kg	1.0	0.15	1
tert-Butylbenzene	2.1		ug/kg	2.1	0.12	1
o-Chlorotoluene	ND		ug/kg	2.1	0.20	1
p-Chlorotoluene	ND		ug/kg	2.1	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.1	1.0	1
Hexachlorobutadiene	ND		ug/kg	4.2	0.18	1
Isopropylbenzene	130		ug/kg	1.0	0.11	1
p-Isopropyltoluene	150		ug/kg	1.0	0.11	1
Naphthalene	5.9		ug/kg	4.2	0.68	1
Acrylonitrile	ND		ug/kg	4.2	1.2	1
Tert-Butyl Alcohol	ND		ug/kg	21	5.4	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-15  
 Client ID: WC15F\_GRAB\_14-16  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:00  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	260		ug/kg	1.0	0.18	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.1	0.34	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.1	0.28	1
1,3,5-Trimethylbenzene	46		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	560	E	ug/kg	2.1	0.35	1
Methyl Acetate	ND		ug/kg	4.2	0.99	1
Acrolein	ND		ug/kg	26	5.9	1
Cyclohexane	130		ug/kg	10	0.57	1
1,4-Dioxane	ND		ug/kg	84	37.	1
Freon-113	ND		ug/kg	4.2	0.72	1
p-Diethylbenzene	160		ug/kg	2.1	0.18	1
p-Ethyltoluene	99		ug/kg	2.1	0.40	1
1,2,4,5-Tetramethylbenzene	82		ug/kg	2.1	0.20	1
Ethyl ether	ND		ug/kg	2.1	0.36	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.2	1.5	1
Methyl cyclohexane	720	E	ug/kg	4.2	0.63	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	122		70-130
4-Bromofluorobenzene	73		70-130
Dibromofluoromethane	97		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-22  
 Client ID: WC15E\_GRAB\_4-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:40  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/26/24 15:26  
 Analyst: LAC  
 Percent Solids: 90%  
 TCLP/SPLP Ext. Date: 06/25/24 07:35

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>TCLP Volatiles by EPA 1311 - Westborough Lab</b>						
Chloroform	ND		ug/l	7.5	2.2	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
Tetrachloroethene	ND		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	5.0	1.8	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
Benzene	ND		ug/l	5.0	1.6	10
Vinyl chloride	ND		ug/l	10	0.71	10
1,1-Dichloroethene	ND		ug/l	5.0	1.7	10
Trichloroethene	ND		ug/l	5.0	1.8	10
1,4-Dichlorobenzene	ND		ug/l	25	1.9	10
2-Butanone	ND		ug/l	50	19.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	106		70-130
dibromofluoromethane	102		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-22  
 Client ID: WC15E\_GRAB\_4-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:40  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/27/24 14:53  
 Analyst: AJK  
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	5.0	2.3	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.14	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	0.12	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	0.50	0.20	1
Chlorobenzene	ND		ug/kg	0.50	0.13	1
Trichlorofluoromethane	ND		ug/kg	4.0	0.69	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17	1
Bromodichloromethane	ND		ug/kg	0.50	0.11	1
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27	1
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16	1
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16	1
1,1-Dichloropropene	ND		ug/kg	0.50	0.16	1
Bromoform	ND		ug/kg	4.0	0.24	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	0.50	0.16	1
Benzene	16		ug/kg	0.50	0.16	1
Toluene	190		ug/kg	1.0	0.54	1
Ethylbenzene	110		ug/kg	1.0	0.14	1
Chloromethane	ND		ug/kg	4.0	0.93	1
Bromomethane	ND		ug/kg	2.0	0.58	1
Vinyl chloride	ND		ug/kg	1.0	0.33	1
Chloroethane	ND		ug/kg	2.0	0.45	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435417**Project Number:** 170562203**Report Date:** 07/01/24**SAMPLE RESULTS**

Lab ID: L2435417-22  
 Client ID: WC15E\_GRAB\_4-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:40  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 Low - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	0.50	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
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	460		ug/kg	2.0	0.56	1
o-Xylene	270		ug/kg	1.0	0.29	1
Xylenes, Total	730		ug/kg	1.0	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.17	1
Dibromomethane	ND		ug/kg	2.0	0.24	1
Styrene	ND		ug/kg	1.0	0.20	1
Dichlorodifluoromethane	ND		ug/kg	10	0.91	1
Acetone	74		ug/kg	10	4.8	1
Carbon disulfide	13		ug/kg	10	4.5	1
2-Butanone	30		ug/kg	10	2.2	1
Vinyl acetate	ND		ug/kg	10	2.1	1
4-Methyl-2-pentanone	ND		ug/kg	10	1.3	1
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13	1
2-Hexanone	ND		ug/kg	10	1.2	1
Bromochloromethane	ND		ug/kg	2.0	0.20	1
2,2-Dichloropropane	ND		ug/kg	2.0	0.20	1
1,2-Dibromoethane	ND		ug/kg	1.0	0.28	1
1,3-Dichloropropane	ND		ug/kg	2.0	0.17	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13	1
Bromobenzene	ND		ug/kg	2.0	0.14	1
n-Butylbenzene	20		ug/kg	1.0	0.17	1
sec-Butylbenzene	5.9		ug/kg	1.0	0.14	1
tert-Butylbenzene	0.32	J	ug/kg	2.0	0.12	1
o-Chlorotoluene	ND		ug/kg	2.0	0.19	1
p-Chlorotoluene	ND		ug/kg	2.0	0.11	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	0.99	1
Hexachlorobutadiene	ND		ug/kg	4.0	0.17	1
Isopropylbenzene	21		ug/kg	1.0	0.11	1
p-Isopropyltoluene	230		ug/kg	1.0	0.11	1
Naphthalene	310	E	ug/kg	4.0	0.65	1
Acrylonitrile	ND		ug/kg	4.0	1.1	1
Tert-Butyl Alcohol	ND		ug/kg	20	5.1	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-22  
 Client ID: WC15E\_GRAB\_4-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:40  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
n-Propylbenzene	45		ug/kg	1.0	0.17	1
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32	1
1,2,4-Trichlorobenzene	ND		ug/kg	2.0	0.27	1
1,3,5-Trimethylbenzene	240		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	410	E	ug/kg	2.0	0.33	1
Methyl Acetate	ND		ug/kg	4.0	0.95	1
Acrolein	ND		ug/kg	25	5.6	1
Cyclohexane	17		ug/kg	10	0.54	1
1,4-Dioxane	ND		ug/kg	80	35.	1
Freon-113	ND		ug/kg	4.0	0.69	1
p-Diethylbenzene	320	E	ug/kg	2.0	0.18	1
p-Ethyltoluene	400	E	ug/kg	2.0	0.38	1
1,2,4,5-Tetramethylbenzene	31		ug/kg	2.0	0.19	1
Ethyl ether	ND		ug/kg	2.0	0.34	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4	1
Methyl cyclohexane	180		ug/kg	4.0	0.60	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	109		70-130
4-Bromofluorobenzene	<b>154</b>	Q	70-130
Dibromofluoromethane	99		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-22  
 Client ID: WC15E\_GRAB\_4-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:40  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/28/24 09:53  
 Analyst: MKS  
 Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	340	150	1
1,1-Dichloroethane	ND		ug/kg	67	9.7	1
Chloroform	ND		ug/kg	100	9.4	1
Carbon tetrachloride	ND		ug/kg	67	15.	1
1,2-Dichloropropane	ND		ug/kg	67	8.4	1
Dibromochloromethane	ND		ug/kg	67	9.4	1
1,1,2-Trichloroethane	ND		ug/kg	67	18.	1
Tetrachloroethene	ND		ug/kg	34	13.	1
Chlorobenzene	ND		ug/kg	34	8.5	1
Trichlorofluoromethane	ND		ug/kg	270	47.	1
1,2-Dichloroethane	ND		ug/kg	67	17.	1
1,1,1-Trichloroethane	ND		ug/kg	34	11.	1
Bromodichloromethane	ND		ug/kg	34	7.3	1
trans-1,3-Dichloropropene	ND		ug/kg	67	18.	1
cis-1,3-Dichloropropene	ND		ug/kg	34	11.	1
1,3-Dichloropropene, Total	ND		ug/kg	34	11.	1
1,1-Dichloropropene	ND		ug/kg	34	11.	1
Bromoform	ND		ug/kg	270	16.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	34	11.	1
Benzene	43		ug/kg	34	11.	1
Toluene	640		ug/kg	67	36.	1
Ethylbenzene	460		ug/kg	67	9.5	1
Chloromethane	ND		ug/kg	270	62.	1
Bromomethane	ND		ug/kg	130	39.	1
Vinyl chloride	ND		ug/kg	67	22.	1
Chloroethane	ND		ug/kg	130	30.	1
1,1-Dichloroethene	ND		ug/kg	67	16.	1
trans-1,2-Dichloroethene	ND		ug/kg	100	9.2	1



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

**Lab ID:** L2435417-22  
**Client ID:** WC15E\_GRAB\_4-6  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 16:40  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	34	9.2	1
1,2-Dichlorobenzene	ND		ug/kg	130	9.7	1
1,3-Dichlorobenzene	ND		ug/kg	130	9.9	1
1,4-Dichlorobenzene	ND		ug/kg	130	11.	1
Methyl tert butyl ether	ND		ug/kg	130	13.	1
p/m-Xylene	2000		ug/kg	130	38.	1
o-Xylene	1000		ug/kg	67	20.	1
Xylenes, Total	3000		ug/kg	67	20.	1
cis-1,2-Dichloroethene	ND		ug/kg	67	12.	1
Dibromomethane	ND		ug/kg	130	16.	1
Styrene	ND		ug/kg	67	13.	1
Dichlorodifluoromethane	ND		ug/kg	670	61.	1
Acetone	ND		ug/kg	670	320	1
Carbon disulfide	ND		ug/kg	670	300	1
2-Butanone	ND		ug/kg	670	150	1
Vinyl acetate	ND		ug/kg	670	140	1
4-Methyl-2-pentanone	ND		ug/kg	670	86.	1
1,2,3-Trichloropropane	ND		ug/kg	130	8.5	1
2-Hexanone	ND		ug/kg	670	79.	1
Bromochloromethane	ND		ug/kg	130	14.	1
2,2-Dichloropropane	ND		ug/kg	130	14.	1
1,2-Dibromoethane	ND		ug/kg	67	19.	1
1,3-Dichloropropane	ND		ug/kg	130	11.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	34	8.9	1
Bromobenzene	ND		ug/kg	130	9.7	1
n-Butylbenzene	120		ug/kg	67	11.	1
sec-Butylbenzene	33	J	ug/kg	67	9.8	1
tert-Butylbenzene	ND		ug/kg	130	7.9	1
o-Chlorotoluene	ND		ug/kg	130	13.	1
p-Chlorotoluene	ND		ug/kg	130	7.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	200	67.	1
Hexachlorobutadiene	ND		ug/kg	270	11.	1
Isopropylbenzene	83		ug/kg	67	7.3	1
p-Isopropyltoluene	1600		ug/kg	67	7.3	1
Naphthalene	2000		ug/kg	270	44.	1
Acrylonitrile	ND		ug/kg	270	77.	1
Tert-Butyl Alcohol	ND		ug/kg	1300	340	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

**Lab ID:** L2435417-22  
**Client ID:** WC15E\_GRAB\_4-6  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 16:40  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
n-Propylbenzene	200		ug/kg	67	11.	1
1,2,3-Trichlorobenzene	ND		ug/kg	130	22.	1
1,2,4-Trichlorobenzene	ND		ug/kg	130	18.	1
1,3,5-Trimethylbenzene	1100		ug/kg	130	13.	1
1,2,4-Trimethylbenzene	1800		ug/kg	130	22.	1
Methyl Acetate	ND		ug/kg	270	64.	1
Acrolein	ND		ug/kg	1700	380	1
Cyclohexane	170	J	ug/kg	670	36.	1
1,4-Dioxane	ND		ug/kg	5400	2400	1
Freon-113	ND		ug/kg	270	46.	1
p-Diethylbenzene	ND		ug/kg	130	12.	1
p-Ethyltoluene	1800		ug/kg	130	26.	1
1,2,4,5-Tetramethylbenzene	200		ug/kg	130	13.	1
Ethyl ether	ND		ug/kg	130	23.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	340	95.	1
Methyl cyclohexane	1000		ug/kg	270	40.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	97		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-24  
 Client ID: WC15E\_GRAB\_6-8  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 17:00  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/27/24 16:39  
 Analyst: LAC  
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	670	310	1
1,1-Dichloroethane	ND		ug/kg	130	19.	1
Chloroform	ND		ug/kg	200	19.	1
Carbon tetrachloride	ND		ug/kg	130	31.	1
1,2-Dichloropropane	ND		ug/kg	130	17.	1
Dibromochloromethane	ND		ug/kg	130	19.	1
1,1,2-Trichloroethane	ND		ug/kg	130	36.	1
Tetrachloroethene	ND		ug/kg	67	26.	1
Chlorobenzene	ND		ug/kg	67	17.	1
Trichlorofluoromethane	ND		ug/kg	530	93.	1
1,2-Dichloroethane	ND		ug/kg	130	34.	1
1,1,1-Trichloroethane	ND		ug/kg	67	22.	1
Bromodichloromethane	ND		ug/kg	67	14.	1
trans-1,3-Dichloropropene	ND		ug/kg	130	36.	1
cis-1,3-Dichloropropene	ND		ug/kg	67	21.	1
1,3-Dichloropropene, Total	ND		ug/kg	67	21.	1
1,1-Dichloropropene	ND		ug/kg	67	21.	1
Bromoform	ND		ug/kg	530	33.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	67	22.	1
Benzene	5400		ug/kg	67	22.	1
Toluene	59000	E	ug/kg	130	73.	1
Ethylbenzene	33000		ug/kg	130	19.	1
Chloromethane	ND		ug/kg	530	120	1
Bromomethane	ND		ug/kg	270	78.	1
Vinyl chloride	ND		ug/kg	130	45.	1
Chloroethane	ND		ug/kg	270	60.	1
1,1-Dichloroethene	ND		ug/kg	130	32.	1
trans-1,2-Dichloroethene	ND		ug/kg	200	18.	1

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435417**Project Number:** 170562203**Report Date:** 07/01/24**SAMPLE RESULTS**

Lab ID: L2435417-24  
 Client ID: WC15E\_GRAB\_6-8  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 17:00  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatiles Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	67	18.	1
1,2-Dichlorobenzene	ND		ug/kg	270	19.	1
1,3-Dichlorobenzene	ND		ug/kg	270	20.	1
1,4-Dichlorobenzene	ND		ug/kg	270	23.	1
Methyl tert butyl ether	ND		ug/kg	270	27.	1
p/m-Xylene	150000	E	ug/kg	270	75.	1
o-Xylene	81000	E	ug/kg	130	39.	1
cis-1,2-Dichloroethene	ND		ug/kg	130	23.	1
Dibromomethane	ND		ug/kg	270	32.	1
Styrene	ND		ug/kg	130	26.	1
Dichlorodifluoromethane	ND		ug/kg	1300	120	1
Acetone	2200		ug/kg	1300	640	1
Carbon disulfide	ND		ug/kg	1300	610	1
2-Butanone	ND		ug/kg	1300	300	1
Vinyl acetate	ND		ug/kg	1300	290	1
4-Methyl-2-pentanone	ND		ug/kg	1300	170	1
1,2,3-Trichloropropane	ND		ug/kg	270	17.	1
2-Hexanone	ND		ug/kg	1300	160	1
Bromochloromethane	ND		ug/kg	270	27.	1
2,2-Dichloropropane	ND		ug/kg	270	27.	1
1,2-Dibromoethane	ND		ug/kg	130	37.	1
1,3-Dichloropropane	ND		ug/kg	270	22.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	67	18.	1
Bromobenzene	ND		ug/kg	270	19.	1
n-Butylbenzene	4600		ug/kg	130	22.	1
sec-Butylbenzene	1400		ug/kg	130	20.	1
tert-Butylbenzene	65	J	ug/kg	270	16.	1
o-Chlorotoluene	ND		ug/kg	270	26.	1
p-Chlorotoluene	ND		ug/kg	270	14.	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	400	130	1
Hexachlorobutadiene	ND		ug/kg	530	22.	1
Isopropylbenzene	4600		ug/kg	130	14.	1
p-Isopropyltoluene	20000		ug/kg	130	14.	1
Naphthalene	89000	E	ug/kg	530	87.	1
Acrylonitrile	ND		ug/kg	530	150	1
Tert-Butyl Alcohol	ND		ug/kg	2700	690	1
n-Propylbenzene	10000		ug/kg	130	23.	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

**Lab ID:** L2435417-24  
**Client ID:** WC15E\_GRAB\_6-8  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 17:00  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
1,2,3-Trichlorobenzene	ND		ug/kg	270	43.	1
1,2,4-Trichlorobenzene	ND		ug/kg	270	36.	1
1,3,5-Trimethylbenzene	58000	E	ug/kg	270	26.	1
1,2,4-Trimethylbenzene	85000	E	ug/kg	270	45.	1
Methyl Acetate	63000	E	ug/kg	530	130	1
Acrolein	ND		ug/kg	3300	750	1
Cyclohexane	4200		ug/kg	1300	73.	1
1,4-Dioxane	ND		ug/kg	11000	4700	1
Freon-113	ND		ug/kg	530	93.	1
p-Diethylbenzene	84000	E	ug/kg	270	24.	1
p-Ethyltoluene	99000	E	ug/kg	270	51.	1
1,2,4,5-Tetramethylbenzene	6500		ug/kg	270	26.	1
Ethyl ether	57	J	ug/kg	270	46.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	670	190	1
Methyl cyclohexane	43000	E	ug/kg	530	81.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	106		70-130
4-Bromofluorobenzene	128		70-130
Dibromofluoromethane	99		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-24 D  
 Client ID: WC15E\_GRAB\_6-8  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 17:00  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/27/24 17:00  
 Analyst: LAC  
 Percent Solids: 81%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Toluene	63000		ug/kg	1300	730	10
p/m-Xylene	160000		ug/kg	2700	750	10
o-Xylene	85000		ug/kg	1300	390	10
Xylenes, Total	250000		ug/kg	1300	390	10
Naphthalene	140000		ug/kg	5300	870	10
1,3,5-Trimethylbenzene	67000		ug/kg	2700	260	10
1,2,4-Trimethylbenzene	110000		ug/kg	2700	450	10
Methyl Acetate	65000		ug/kg	5300	1300	10
p-Diethylbenzene	99000		ug/kg	2700	240	10
p-Ethyltoluene	130000		ug/kg	2700	510	10
Methyl cyclohexane	44000		ug/kg	5300	810	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	99		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-26  
 Client ID: WC15E\_GRAB\_13-15  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 13:15  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/27/24 16:17  
 Analyst: LAC  
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Methylene chloride	ND		ug/kg	380	170	1
1,1-Dichloroethane	ND		ug/kg	76	11.	1
Chloroform	ND		ug/kg	110	11.	1
Carbon tetrachloride	ND		ug/kg	76	18.	1
1,2-Dichloropropane	ND		ug/kg	76	9.5	1
Dibromochloromethane	ND		ug/kg	76	11.	1
1,1,2-Trichloroethane	ND		ug/kg	76	20.	1
Tetrachloroethene	ND		ug/kg	38	15.	1
Chlorobenzene	ND		ug/kg	38	9.7	1
Trichlorofluoromethane	ND		ug/kg	300	53.	1
1,2-Dichloroethane	ND		ug/kg	76	20.	1
1,1,1-Trichloroethane	ND		ug/kg	38	13.	1
Bromodichloromethane	ND		ug/kg	38	8.3	1
trans-1,3-Dichloropropene	ND		ug/kg	76	21.	1
cis-1,3-Dichloropropene	ND		ug/kg	38	12.	1
1,3-Dichloropropene, Total	ND		ug/kg	38	12.	1
1,1-Dichloropropene	ND		ug/kg	38	12.	1
Bromoform	ND		ug/kg	300	19.	1
1,1,2,2-Tetrachloroethane	ND		ug/kg	38	13.	1
Benzene	33	J	ug/kg	38	13.	1
Toluene	190		ug/kg	76	41.	1
Ethylbenzene	1000		ug/kg	76	11.	1
Chloromethane	ND		ug/kg	300	71.	1
Bromomethane	ND		ug/kg	150	44.	1
Vinyl chloride	ND		ug/kg	76	26.	1
Chloroethane	ND		ug/kg	150	34.	1
1,1-Dichloroethene	ND		ug/kg	76	18.	1
trans-1,2-Dichloroethene	ND		ug/kg	110	10.	1

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-26  
 Client ID: WC15E\_GRAB\_13-15  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 13:15  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
Trichloroethene	ND		ug/kg	38	10.	1
1,2-Dichlorobenzene	ND		ug/kg	150	11.	1
1,3-Dichlorobenzene	ND		ug/kg	150	11.	1
1,4-Dichlorobenzene	ND		ug/kg	150	13.	1
Methyl tert butyl ether	ND		ug/kg	150	15.	1
p/m-Xylene	1200		ug/kg	150	43.	1
o-Xylene	2200		ug/kg	76	22.	1
Xylenes, Total	3400		ug/kg	76	22.	1
cis-1,2-Dichloroethene	ND		ug/kg	76	13.	1
Dibromomethane	ND		ug/kg	150	18.	1
Styrene	ND		ug/kg	76	15.	1
Dichlorodifluoromethane	ND		ug/kg	760	70.	1
Acetone	750	J	ug/kg	760	370	1
Carbon disulfide	ND		ug/kg	760	350	1
2-Butanone	ND		ug/kg	760	170	1
Vinyl acetate	ND		ug/kg	760	160	1
4-Methyl-2-pentanone	ND		ug/kg	760	98.	1
1,2,3-Trichloropropane	ND		ug/kg	150	9.7	1
2-Hexanone	ND		ug/kg	760	90.	1
Bromochloromethane	ND		ug/kg	150	16.	1
2,2-Dichloropropane	ND		ug/kg	150	15.	1
1,2-Dibromoethane	ND		ug/kg	76	21.	1
1,3-Dichloropropane	ND		ug/kg	150	13.	1
1,1,1,2-Tetrachloroethane	ND		ug/kg	38	10.	1
Bromobenzene	ND		ug/kg	150	11.	1
n-Butylbenzene	610		ug/kg	76	13.	1
sec-Butylbenzene	160		ug/kg	76	11.	1
tert-Butylbenzene	ND		ug/kg	150	9.0	1
o-Chlorotoluene	ND		ug/kg	150	14.	1
p-Chlorotoluene	ND		ug/kg	150	8.2	1
1,2-Dibromo-3-chloropropane	ND		ug/kg	230	76.	1
Hexachlorobutadiene	ND		ug/kg	300	13.	1
Isopropylbenzene	330		ug/kg	76	8.3	1
p-Isopropyltoluene	44000	E	ug/kg	76	8.3	1
Naphthalene	2700		ug/kg	300	50.	1
Acrylonitrile	ND		ug/kg	300	88.	1
Tert-Butyl Alcohol	ND		ug/kg	1500	390	1



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-26  
 Client ID: WC15E\_GRAB\_13-15  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 13:15  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Volatile Organics by EPA 5035 High - Westborough Lab</b>						
n-Propylbenzene	820		ug/kg	76	13.	1
1,2,3-Trichlorobenzene	ND		ug/kg	150	24.	1
1,2,4-Trichlorobenzene	ND		ug/kg	150	21.	1
1,3,5-Trimethylbenzene	1800		ug/kg	150	15.	1
1,2,4-Trimethylbenzene	6300		ug/kg	150	26.	1
Methyl Acetate	290	J	ug/kg	300	72.	1
Acrolein	ND		ug/kg	1900	430	1
Cyclohexane	440	J	ug/kg	760	42.	1
1,4-Dioxane	ND		ug/kg	6100	2700	1
Freon-113	ND		ug/kg	300	53.	1
p-Diethylbenzene	5200		ug/kg	150	14.	1
p-Ethyltoluene	2300		ug/kg	150	29.	1
1,2,4,5-Tetramethylbenzene	750		ug/kg	150	14.	1
Ethyl ether	38	J	ug/kg	150	26.	1
trans-1,4-Dichloro-2-butene	ND		ug/kg	380	110	1
Methyl cyclohexane	3600		ug/kg	300	46.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	104		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	111		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-26 D  
 Client ID: WC15E\_GRAB\_13-15  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 13:15  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8260D  
 Analytical Date: 06/28/24 09:28  
 Analyst: MKS  
 Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 High - Westborough Lab						
p-Isopropyltoluene	54000		ug/kg	760	83.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	101		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/26/24 08:29  
Analyst: PID  
TCLP/SPLP Extraction Date: 06/25/24 07:35

Extraction Date: 06/25/24 07:35

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Volatiles by EPA 1311 - Westborough Lab for sample(s): 22 Batch: WG1939818-5					
Chloroform	ND		ug/l	7.5	2.2
Carbon tetrachloride	ND		ug/l	5.0	1.3
Tetrachloroethene	ND		ug/l	5.0	1.8
Chlorobenzene	ND		ug/l	5.0	1.8
1,2-Dichloroethane	ND		ug/l	5.0	1.3
Benzene	ND		ug/l	5.0	1.6
Vinyl chloride	ND		ug/l	10	0.71
1,1-Dichloroethene	ND		ug/l	5.0	1.7
Trichloroethene	ND		ug/l	5.0	1.8
1,4-Dichlorobenzene	ND		ug/l	25	1.9
2-Butanone	ND		ug/l	50	19.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	99		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	115		70-130
dibromofluoromethane	98		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/27/24 09:16  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 22 Batch: WG1940343-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.39	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-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

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/27/24 09:16  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 22 Batch: WG1940343-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
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
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Dibromomethane	ND		ug/kg	2.0	0.24
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
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
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
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

### Method Blank Analysis Batch Quality Control

Analytical Method: 1,8260D  
Analytical Date: 06/27/24 09:16  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 22 Batch: WG1940343-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
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
Acrylonitrile	ND		ug/kg	4.0	1.2
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
Acrolein	ND		ug/kg	25	5.6
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	0.62	J	ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Methyl cyclohexane	ND		ug/kg	4.0	0.60

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/27/24 09:16  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 22 Batch: WG1940343-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	100		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/27/24 09:16  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01,08,15,24,26 Batch: WG1940737-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	19	J	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
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
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	ND		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



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/27/24 09:16  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01,08,15,24,26 Batch: WG1940737-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
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.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Dibromomethane	ND		ug/kg	100	12.
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
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6
p-Chlorotoluene	ND		ug/kg	100	5.4

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/27/24 09:16  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01,08,15,24,26 Batch: WG1940737-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
Tert-Butyl Alcohol	ND		ug/kg	1000	260
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
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.
Acrolein	ND		ug/kg	1200	280
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	31	J	ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.
Methyl cyclohexane	ND		ug/kg	200	30.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/27/24 09:16  
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 01,08,15,24,26 Batch: WG1940737-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	94		70-130
Dibromofluoromethane	100		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/28/24 08:38  
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 22,26 Batch: WG1940845-5					
Methylene chloride	ND		ug/kg	250	110
1,1-Dichloroethane	ND		ug/kg	50	7.2
Chloroform	30	J	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
1,3-Dichloropropene, Total	ND		ug/kg	25	7.9
1,1-Dichloropropene	ND		ug/kg	25	8.0
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	ND		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

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/28/24 08:38  
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 22,26 Batch: WG1940845-5					
1,2-Dichlorobenzene	ND		ug/kg	100	7.2
1,3-Dichlorobenzene	ND		ug/kg	100	7.4
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.
Xylenes, Total	ND		ug/kg	50	14.
cis-1,2-Dichloroethene	ND		ug/kg	50	8.8
Dibromomethane	ND		ug/kg	100	12.
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
Vinyl acetate	ND		ug/kg	500	110
4-Methyl-2-pentanone	ND		ug/kg	500	64.
1,2,3-Trichloropropane	ND		ug/kg	100	6.4
2-Hexanone	ND		ug/kg	500	59.
Bromochloromethane	ND		ug/kg	100	10.
2,2-Dichloropropane	ND		ug/kg	100	10.
1,2-Dibromoethane	ND		ug/kg	50	14.
1,3-Dichloropropane	ND		ug/kg	100	8.4
1,1,1,2-Tetrachloroethane	ND		ug/kg	25	6.6
Bromobenzene	ND		ug/kg	100	7.2
n-Butylbenzene	ND		ug/kg	50	8.4
sec-Butylbenzene	ND		ug/kg	50	7.3
tert-Butylbenzene	ND		ug/kg	100	5.9
o-Chlorotoluene	ND		ug/kg	100	9.6
p-Chlorotoluene	ND		ug/kg	100	5.4

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/28/24 08:38  
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 22,26 Batch: WG1940845-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	150	50.
Hexachlorobutadiene	ND		ug/kg	200	8.4
Isopropylbenzene	ND		ug/kg	50	5.4
p-Isopropyltoluene	ND		ug/kg	50	5.4
Naphthalene	ND		ug/kg	200	32.
Acrylonitrile	ND		ug/kg	200	58.
Tert-Butyl Alcohol	ND		ug/kg	1000	260
n-Propylbenzene	ND		ug/kg	50	8.6
1,2,3-Trichlorobenzene	ND		ug/kg	100	16.
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.
Acrolein	ND		ug/kg	1200	280
Cyclohexane	ND		ug/kg	500	27.
1,4-Dioxane	ND		ug/kg	4000	1800
Freon-113	ND		ug/kg	200	35.
p-Diethylbenzene	ND		ug/kg	100	8.8
p-Ethyltoluene	ND		ug/kg	100	19.
1,2,4,5-Tetramethylbenzene	ND		ug/kg	100	9.6
Ethyl ether	ND		ug/kg	100	17.
trans-1,4-Dichloro-2-butene	ND		ug/kg	250	71.
Methyl cyclohexane	ND		ug/kg	200	30.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/28/24 08:38  
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 High - Westborough Lab for sample(s): 22,26 Batch: WG1940845-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	98		70-130

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/28/24 08:38  
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 15 Batch: WG1940850-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	0.60	J	ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
1,2-Dichloropropane	ND		ug/kg	1.0	0.12
Dibromochloromethane	ND		ug/kg	1.0	0.14
1,1,2-Trichloroethane	ND		ug/kg	1.0	0.27
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
Trichlorofluoromethane	ND		ug/kg	4.0	0.70
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Bromodichloromethane	ND		ug/kg	0.50	0.11
trans-1,3-Dichloropropene	ND		ug/kg	1.0	0.27
cis-1,3-Dichloropropene	ND		ug/kg	0.50	0.16
1,3-Dichloropropene, Total	ND		ug/kg	0.50	0.16
1,1-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



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/28/24 08:38  
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 15 Batch: WG1940850-5					
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
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
Xylenes, Total	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Dibromomethane	ND		ug/kg	2.0	0.24
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
Vinyl acetate	ND		ug/kg	10	2.2
4-Methyl-2-pentanone	ND		ug/kg	10	1.3
1,2,3-Trichloropropane	ND		ug/kg	2.0	0.13
2-Hexanone	ND		ug/kg	10	1.2
Bromochloromethane	ND		ug/kg	2.0	0.20
2,2-Dichloropropane	ND		ug/kg	2.0	0.20
1,2-Dibromoethane	ND		ug/kg	1.0	0.28
1,3-Dichloropropane	ND		ug/kg	2.0	0.17
1,1,1,2-Tetrachloroethane	ND		ug/kg	0.50	0.13
Bromobenzene	ND		ug/kg	2.0	0.14
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
o-Chlorotoluene	ND		ug/kg	2.0	0.19
p-Chlorotoluene	ND		ug/kg	2.0	0.11

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/28/24 08:38  
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 15 Batch: WG1940850-5					
1,2-Dibromo-3-chloropropane	ND		ug/kg	3.0	1.0
Hexachlorobutadiene	ND		ug/kg	4.0	0.17
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
Acrylonitrile	ND		ug/kg	4.0	1.2
Tert-Butyl Alcohol	ND		ug/kg	20	5.1
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,2,3-Trichlorobenzene	ND		ug/kg	2.0	0.32
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
Acrolein	ND		ug/kg	25	5.6
Cyclohexane	ND		ug/kg	10	0.54
1,4-Dioxane	ND		ug/kg	80	35.
Freon-113	ND		ug/kg	4.0	0.69
p-Diethylbenzene	ND		ug/kg	2.0	0.18
p-Ethyltoluene	ND		ug/kg	2.0	0.38
1,2,4,5-Tetramethylbenzene	ND		ug/kg	2.0	0.19
Ethyl ether	ND		ug/kg	2.0	0.34
trans-1,4-Dichloro-2-butene	ND		ug/kg	5.0	1.4
Methyl cyclohexane	ND		ug/kg	4.0	0.60

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8260D  
Analytical Date: 06/28/24 08:38  
Analyst: MKS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 15 Batch: WG1940850-5					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	108		70-130
Dibromofluoromethane	98		70-130

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Volatiles by EPA 1311 - Westborough Lab Associated sample(s): 22 Batch: WG1939818-3 WG1939818-4								
Chloroform	90		94		70-130	4		20
Carbon tetrachloride	100		100		63-132	0		20
Tetrachloroethene	96		94		70-130	2		20
Chlorobenzene	90		95		75-130	5		25
1,2-Dichloroethane	87		96		70-130	10		20
Benzene	91		98		70-130	7		25
Vinyl chloride	61		58		55-140	5		20
1,1-Dichloroethene	92		90		61-145	2		25
Trichloroethene	87		86		70-130	1		25
1,4-Dichlorobenzene	90		97		70-130	7		20
2-Butanone	71		77		63-138	8		20

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		100		70-130
Toluene-d8	105		101		70-130
4-Bromofluorobenzene	113		114		70-130
dibromofluoromethane	97		97		70-130



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 22 Batch: WG1940343-3 WG1940343-4								
Methylene chloride	101		102		70-130	1		30
1,1-Dichloroethane	104		103		70-130	1		30
Chloroform	99		99		70-130	0		30
Carbon tetrachloride	98		98		70-130	0		30
1,2-Dichloropropane	97		101		70-130	4		30
Dibromochloromethane	84		91		70-130	8		30
1,1,2-Trichloroethane	88		95		70-130	8		30
Tetrachloroethene	103		102		70-130	1		30
Chlorobenzene	96		100		70-130	4		30
Trichlorofluoromethane	110		107		70-139	3		30
1,2-Dichloroethane	93		97		70-130	4		30
1,1,1-Trichloroethane	98		98		70-130	0		30
Bromodichloromethane	90		94		70-130	4		30
trans-1,3-Dichloropropene	88		95		70-130	8		30
cis-1,3-Dichloropropene	93		97		70-130	4		30
1,1-Dichloropropene	105		103		70-130	2		30
Bromoform	76		86		70-130	12		30
1,1,2,2-Tetrachloroethane	78		91		70-130	15		30
Benzene	99		99		70-130	0		30
Toluene	94		95		70-130	1		30
Ethylbenzene	100		101		70-130	1		30
Chloromethane	116		111		52-130	4		30
Bromomethane	123		118		57-147	4		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 22 Batch: WG1940343-3 WG1940343-4								
Vinyl chloride	114		111		67-130	3		30
Chloroethane	118		118		50-151	0		30
1,1-Dichloroethene	106		103		65-135	3		30
trans-1,2-Dichloroethene	100		99		70-130	1		30
Trichloroethene	101		102		70-130	1		30
1,2-Dichlorobenzene	95		101		70-130	6		30
1,3-Dichlorobenzene	100		103		70-130	3		30
1,4-Dichlorobenzene	98		102		70-130	4		30
Methyl tert butyl ether	88		93		66-130	6		30
p/m-Xylene	101		102		70-130	1		30
o-Xylene	100		102		70-130	2		30
cis-1,2-Dichloroethene	99		99		70-130	0		30
Dibromomethane	87		92		70-130	6		30
Styrene	98		100		70-130	2		30
Dichlorodifluoromethane	108		102		30-146	6		30
Acetone	81		96		54-140	17		30
Carbon disulfide	108		107		59-130	1		30
2-Butanone	71		83		70-130	16		30
Vinyl acetate	84		88		70-130	5		30
4-Methyl-2-pentanone	70		84		70-130	18		30
1,2,3-Trichloropropane	81		93		68-130	14		30
2-Hexanone	64	Q	80		70-130	22		30
Bromochloromethane	95		97		70-130	2		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 22 Batch: WG1940343-3 WG1940343-4								
2,2-Dichloropropane	98		97		70-130	1		30
1,2-Dibromoethane	84		92		70-130	9		30
1,3-Dichloropropane	91		97		69-130	6		30
1,1,1,2-Tetrachloroethane	92		96		70-130	4		30
Bromobenzene	93		98		70-130	5		30
n-Butylbenzene	111		114		70-130	3		30
sec-Butylbenzene	106		108		70-130	2		30
tert-Butylbenzene	102		104		70-130	2		30
o-Chlorotoluene	121		107		70-130	12		30
p-Chlorotoluene	102		104		70-130	2		30
1,2-Dibromo-3-chloropropane	66	Q	81		68-130	20		30
Hexachlorobutadiene	108		109		67-130	1		30
Isopropylbenzene	102		104		70-130	2		30
p-Isopropyltoluene	105		107		70-130	2		30
Naphthalene	81		94		70-130	15		30
Acrylonitrile	81		92		70-130	13		30
Tert-Butyl Alcohol	62	Q	76		70-130	20		30
n-Propylbenzene	106		108		70-130	2		30
1,2,3-Trichlorobenzene	97		105		70-130	8		30
1,2,4-Trichlorobenzene	101		106		70-130	5		30
1,3,5-Trimethylbenzene	102		105		70-130	3		30
1,2,4-Trimethylbenzene	102		105		70-130	3		30
Methyl Acetate	85		98		51-146	14		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 22 Batch: WG1940343-3 WG1940343-4								
Acrolein	196	Q	224	Q	70-130	13		30
Cyclohexane	108		107		59-142	1		30
1,4-Dioxane	75		88		65-136	16		30
Freon-113	112		108		50-139	4		30
p-Diethylbenzene	105		108		70-130	3		30
p-Ethyltoluene	105		107		70-130	2		30
1,2,4,5-Tetramethylbenzene	99		104		70-130	5		30
Ethyl ether	96		99		67-130	3		30
trans-1,4-Dichloro-2-butene	74		88		70-130	17		30
Methyl cyclohexane	109		106		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		100		70-130
Toluene-d8	98		100		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	100		99		70-130





## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,08,15,24,26 Batch: WG1940737-3 WG1940737-4								
Methylene chloride	101		102		70-130	1		30
1,1-Dichloroethane	104		103		70-130	1		30
Chloroform	99		99		70-130	0		30
Carbon tetrachloride	98		98		70-130	0		30
1,2-Dichloropropane	97		101		70-130	4		30
Dibromochloromethane	84		91		70-130	8		30
1,1,2-Trichloroethane	88		95		70-130	8		30
Tetrachloroethene	103		102		70-130	1		30
Chlorobenzene	96		100		70-130	4		30
Trichlorofluoromethane	110		107		70-139	3		30
1,2-Dichloroethane	93		97		70-130	4		30
1,1,1-Trichloroethane	98		98		70-130	0		30
Bromodichloromethane	90		94		70-130	4		30
trans-1,3-Dichloropropene	88		95		70-130	8		30
cis-1,3-Dichloropropene	93		97		70-130	4		30
1,1-Dichloropropene	105		103		70-130	2		30
Bromoform	76		86		70-130	12		30
1,1,2,2-Tetrachloroethane	78		91		70-130	15		30
Benzene	99		99		70-130	0		30
Toluene	94		95		70-130	1		30
Ethylbenzene	100		101		70-130	1		30
Chloromethane	116		111		52-130	4		30
Bromomethane	123		118		57-147	4		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,08,15,24,26 Batch: WG1940737-3 WG1940737-4								
Vinyl chloride	114		111		67-130	3		30
Chloroethane	118		118		50-151	0		30
1,1-Dichloroethene	106		103		65-135	3		30
trans-1,2-Dichloroethene	100		99		70-130	1		30
Trichloroethene	101		102		70-130	1		30
1,2-Dichlorobenzene	95		101		70-130	6		30
1,3-Dichlorobenzene	100		103		70-130	3		30
1,4-Dichlorobenzene	98		102		70-130	4		30
Methyl tert butyl ether	88		93		66-130	6		30
p/m-Xylene	101		102		70-130	1		30
o-Xylene	100		102		70-130	2		30
cis-1,2-Dichloroethene	99		99		70-130	0		30
Dibromomethane	87		92		70-130	6		30
Styrene	98		100		70-130	2		30
Dichlorodifluoromethane	108		102		30-146	6		30
Acetone	81		96		54-140	17		30
Carbon disulfide	108		107		59-130	1		30
2-Butanone	71		83		70-130	16		30
Vinyl acetate	84		88		70-130	5		30
4-Methyl-2-pentanone	70		84		70-130	18		30
1,2,3-Trichloropropane	81		93		68-130	14		30
2-Hexanone	64	Q	80		70-130	22		30
Bromochloromethane	95		97		70-130	2		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,08,15,24,26 Batch: WG1940737-3 WG1940737-4								
2,2-Dichloropropane	98		97		70-130	1		30
1,2-Dibromoethane	84		92		70-130	9		30
1,3-Dichloropropane	91		97		69-130	6		30
1,1,1,2-Tetrachloroethane	92		96		70-130	4		30
Bromobenzene	93		98		70-130	5		30
n-Butylbenzene	111		114		70-130	3		30
sec-Butylbenzene	106		108		70-130	2		30
tert-Butylbenzene	102		104		70-130	2		30
o-Chlorotoluene	121		107		70-130	12		30
p-Chlorotoluene	102		104		70-130	2		30
1,2-Dibromo-3-chloropropane	66	Q	81		68-130	20		30
Hexachlorobutadiene	108		109		67-130	1		30
Isopropylbenzene	102		104		70-130	2		30
p-Isopropyltoluene	105		107		70-130	2		30
Naphthalene	81		94		70-130	15		30
Acrylonitrile	81		92		70-130	13		30
Tert-Butyl Alcohol	62	Q	76		70-130	20		30
n-Propylbenzene	106		108		70-130	2		30
1,2,3-Trichlorobenzene	97		105		70-130	8		30
1,2,4-Trichlorobenzene	101		106		70-130	5		30
1,3,5-Trimethylbenzene	102		105		70-130	3		30
1,2,4-Trimethylbenzene	102		105		70-130	3		30
Methyl Acetate	85		98		51-146	14		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 01,08,15,24,26 Batch: WG1940737-3 WG1940737-4								
Acrolein	196	Q	224	Q	70-130	13		30
Cyclohexane	108		107		59-142	1		30
1,4-Dioxane	75		88		65-136	16		30
Freon-113	112		108		50-139	4		30
p-Diethylbenzene	105		108		70-130	3		30
p-Ethyltoluene	105		107		70-130	2		30
1,2,4,5-Tetramethylbenzene	99		104		70-130	5		30
Ethyl ether	96		99		67-130	3		30
trans-1,4-Dichloro-2-butene	74		88		70-130	17		30
Methyl cyclohexane	109		106		70-130	3		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	99		100		70-130
Toluene-d8	98		100		70-130
4-Bromofluorobenzene	96		96		70-130
Dibromofluoromethane	100		99		70-130



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 22,26 Batch: WG1940845-3 WG1940845-4								
Methylene chloride	85		79		70-130	7		30
1,1-Dichloroethane	103		94		70-130	9		30
Chloroform	107		93		70-130	14		30
Carbon tetrachloride	109		98		70-130	11		30
1,2-Dichloropropane	100		94		70-130	6		30
Dibromochloromethane	102		96		70-130	6		30
1,1,2-Trichloroethane	100		94		70-130	6		30
Tetrachloroethene	110		99		70-130	11		30
Chlorobenzene	102		93		70-130	9		30
Trichlorofluoromethane	112		98		70-139	13		30
1,2-Dichloroethane	104		98		70-130	6		30
1,1,1-Trichloroethane	112		100		70-130	11		30
Bromodichloromethane	104		97		70-130	7		30
trans-1,3-Dichloropropene	107		101		70-130	6		30
cis-1,3-Dichloropropene	105		99		70-130	6		30
1,1-Dichloropropene	110		98		70-130	12		30
Bromoform	96		91		70-130	5		30
1,1,2,2-Tetrachloroethane	106		102		70-130	4		30
Benzene	100		92		70-130	8		30
Toluene	102		92		70-130	10		30
Ethylbenzene	103		94		70-130	9		30
Chloromethane	92		80		52-130	14		30
Bromomethane	65		61		57-147	6		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 22,26 Batch: WG1940845-3 WG1940845-4								
Vinyl chloride	88		77		67-130	13		30
Chloroethane	99		88		50-151	12		30
1,1-Dichloroethene	110		97		65-135	13		30
trans-1,2-Dichloroethene	105		94		70-130	11		30
Trichloroethene	103		92		70-130	11		30
1,2-Dichlorobenzene	101		96		70-130	5		30
1,3-Dichlorobenzene	102		96		70-130	6		30
1,4-Dichlorobenzene	100		95		70-130	5		30
Methyl tert butyl ether	104		95		66-130	9		30
p/m-Xylene	105		96		70-130	9		30
o-Xylene	104		96		70-130	8		30
cis-1,2-Dichloroethene	100		92		70-130	8		30
Dibromomethane	106		99		70-130	7		30
Styrene	103		95		70-130	8		30
Dichlorodifluoromethane	104		88		30-146	17		30
Acetone	85		84		54-140	1		30
Carbon disulfide	96		84		59-130	13		30
2-Butanone	98		92		70-130	6		30
Vinyl acetate	128		119		70-130	7		30
4-Methyl-2-pentanone	97		93		70-130	4		30
1,2,3-Trichloropropane	103		96		68-130	7		30
2-Hexanone	95		89		70-130	7		30
Bromochloromethane	103		95		70-130	8		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 22,26 Batch: WG1940845-3 WG1940845-4								
2,2-Dichloropropane	113		102		70-130	10		30
1,2-Dibromoethane	108		102		70-130	6		30
1,3-Dichloropropane	102		96		69-130	6		30
1,1,1,2-Tetrachloroethane	104		97		70-130	7		30
Bromobenzene	101		95		70-130	6		30
n-Butylbenzene	107		99		70-130	8		30
sec-Butylbenzene	106		98		70-130	8		30
tert-Butylbenzene	105		97		70-130	8		30
o-Chlorotoluene	105		96		70-130	9		30
p-Chlorotoluene	105		98		70-130	7		30
1,2-Dibromo-3-chloropropane	98		90		68-130	9		30
Hexachlorobutadiene	102		95		67-130	7		30
Isopropylbenzene	107		98		70-130	9		30
p-Isopropyltoluene	107		98		70-130	9		30
Naphthalene	90		88		70-130	2		30
Acrylonitrile	102		92		70-130	10		30
Tert-Butyl Alcohol	103		93		70-130	10		30
n-Propylbenzene	108		98		70-130	10		30
1,2,3-Trichlorobenzene	92		88		70-130	4		30
1,2,4-Trichlorobenzene	99		96		70-130	3		30
1,3,5-Trimethylbenzene	107		98		70-130	9		30
1,2,4-Trimethylbenzene	105		98		70-130	7		30
Methyl Acetate	90		87		51-146	3		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	RPD	
	%Recovery	Qual	%Recovery	Qual			Qual	Limits
Volatile Organics by EPA 5035 High - Westborough Lab Associated sample(s): 22,26 Batch: WG1940845-3 WG1940845-4								
Acrolein	107		99		70-130	8		30
Cyclohexane	108		96		59-142	12		30
1,4-Dioxane	97		92		65-136	5		30
Freon-113	114		99		50-139	14		30
p-Diethylbenzene	107		99		70-130	8		30
p-Ethyltoluene	106		98		70-130	8		30
1,2,4,5-Tetramethylbenzene	102		96		70-130	6		30
Ethyl ether	102		93		67-130	9		30
trans-1,4-Dichloro-2-butene	104		99		70-130	5		30
Methyl cyclohexane	108		97		70-130	11		30

Surrogate	LCS		LCSD		Acceptance Criteria
	%Recovery	Qual	%Recovery	Qual	
1,2-Dichloroethane-d4	100		102		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	107		107		70-130
Dibromofluoromethane	102		102		70-130





## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 15 Batch: WG1940850-3 WG1940850-4								
Methylene chloride	85		79		70-130	7		30
1,1-Dichloroethane	103		94		70-130	9		30
Chloroform	107		93		70-130	14		30
Carbon tetrachloride	109		98		70-130	11		30
1,2-Dichloropropane	100		94		70-130	6		30
Dibromochloromethane	102		96		70-130	6		30
1,1,2-Trichloroethane	100		94		70-130	6		30
Tetrachloroethene	110		99		70-130	11		30
Chlorobenzene	102		93		70-130	9		30
Trichlorofluoromethane	112		98		70-139	13		30
1,2-Dichloroethane	104		98		70-130	6		30
1,1,1-Trichloroethane	112		100		70-130	11		30
Bromodichloromethane	104		97		70-130	7		30
trans-1,3-Dichloropropene	107		101		70-130	6		30
cis-1,3-Dichloropropene	105		99		70-130	6		30
1,1-Dichloropropene	110		98		70-130	12		30
Bromoform	96		91		70-130	5		30
1,1,1,2-Tetrachloroethane	106		102		70-130	4		30
Benzene	100		92		70-130	8		30
Toluene	102		92		70-130	10		30
Ethylbenzene	103		94		70-130	9		30
Chloromethane	92		80		52-130	14		30
Bromomethane	65		61		57-147	6		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2435417

Report Date: 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 15 Batch: WG1940850-3 WG1940850-4								
Vinyl chloride	88		77		67-130	13		30
Chloroethane	99		88		50-151	12		30
1,1-Dichloroethene	110		97		65-135	13		30
trans-1,2-Dichloroethene	105		94		70-130	11		30
Trichloroethene	103		92		70-130	11		30
1,2-Dichlorobenzene	101		96		70-130	5		30
1,3-Dichlorobenzene	102		96		70-130	6		30
1,4-Dichlorobenzene	100		95		70-130	5		30
Methyl tert butyl ether	104		95		66-130	9		30
p/m-Xylene	105		96		70-130	9		30
o-Xylene	104		96		70-130	8		30
cis-1,2-Dichloroethene	100		92		70-130	8		30
Dibromomethane	106		99		70-130	7		30
Styrene	103		95		70-130	8		30
Dichlorodifluoromethane	104		88		30-146	17		30
Acetone	85		84		54-140	1		30
Carbon disulfide	96		84		59-130	13		30
2-Butanone	98		92		70-130	6		30
Vinyl acetate	128		119		70-130	7		30
4-Methyl-2-pentanone	97		93		70-130	4		30
1,2,3-Trichloropropane	103		96		68-130	7		30
2-Hexanone	95		89		70-130	7		30
Bromochloromethane	103		95		70-130	8		30

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 15 Batch: WG1940850-3 WG1940850-4								
2,2-Dichloropropane	113		102		70-130	10		30
1,2-Dibromoethane	108		102		70-130	6		30
1,3-Dichloropropane	102		96		69-130	6		30
1,1,1,2-Tetrachloroethane	104		97		70-130	7		30
Bromobenzene	101		95		70-130	6		30
n-Butylbenzene	107		99		70-130	8		30
sec-Butylbenzene	106		98		70-130	8		30
tert-Butylbenzene	105		97		70-130	8		30
o-Chlorotoluene	105		96		70-130	9		30
p-Chlorotoluene	105		98		70-130	7		30
1,2-Dibromo-3-chloropropane	98		90		68-130	9		30
Hexachlorobutadiene	102		95		67-130	7		30
Isopropylbenzene	107		98		70-130	9		30
p-Isopropyltoluene	107		98		70-130	9		30
Naphthalene	90		88		70-130	2		30
Acrylonitrile	102		92		70-130	10		30
Tert-Butyl Alcohol	103		93		70-130	10		30
n-Propylbenzene	108		98		70-130	10		30
1,2,3-Trichlorobenzene	92		88		70-130	4		30
1,2,4-Trichlorobenzene	99		96		70-130	3		30
1,3,5-Trimethylbenzene	107		98		70-130	9		30
1,2,4-Trimethylbenzene	105		98		70-130	7		30
Methyl Acetate	90		87		51-146	3		30

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 15 Batch: WG1940850-3 WG1940850-4								
Acrolein	107		99		70-130	8		30
Cyclohexane	108		96		59-142	12		30
1,4-Dioxane	97		92		65-136	5		30
Freon-113	114		99		50-139	14		30
p-Diethylbenzene	107		99		70-130	8		30
p-Ethyltoluene	106		98		70-130	8		30
1,2,4,5-Tetramethylbenzene	102		96		70-130	6		30
Ethyl ether	102		93		67-130	9		30
trans-1,4-Dichloro-2-butene	104		99		70-130	5		30
Methyl cyclohexane	108		97		70-130	11		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		102		70-130
Toluene-d8	100		100		70-130
4-Bromofluorobenzene	107		107		70-130
Dibromofluoromethane	102		102		70-130



# SEMIVOLATILES

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-07 D  
 Client ID: WC15\_COMP\_0-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 15:10  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/29/24 15:13  
 Analyst: SZ  
 Percent Solids: 86%

Extraction Method: EPA 3546  
 Extraction Date: 06/28/24 04:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	3800	490	25
Benzidine	ND		ug/kg	16000	5100	25
1,2,4-Trichlorobenzene	ND		ug/kg	4700	540	25
Hexachlorobenzene	ND		ug/kg	2800	530	25
Bis(2-chloroethyl)ether	ND		ug/kg	4200	640	25
2-Chloronaphthalene	ND		ug/kg	4700	470	25
1,2-Dichlorobenzene	ND		ug/kg	4700	850	25
1,3-Dichlorobenzene	ND		ug/kg	4700	810	25
1,4-Dichlorobenzene	ND		ug/kg	4700	820	25
3,3'-Dichlorobenzidine	ND		ug/kg	4700	1200	25
2,4-Dinitrotoluene	ND		ug/kg	4700	940	25
2,6-Dinitrotoluene	ND		ug/kg	4700	810	25
Azobenzene	ND		ug/kg	4700	450	25
Fluoranthene	9000		ug/kg	2800	540	25
4-Chlorophenyl phenyl ether	ND		ug/kg	4700	500	25
4-Bromophenyl phenyl ether	ND		ug/kg	4700	720	25
Bis(2-chloroisopropyl)ether	ND		ug/kg	5600	800	25
Bis(2-chloroethoxy)methane	ND		ug/kg	5100	470	25
Hexachlorobutadiene	ND		ug/kg	4700	690	25
Hexachlorocyclopentadiene	ND		ug/kg	13000	4300	25
Hexachloroethane	ND		ug/kg	3800	760	25
Isophorone	ND		ug/kg	4200	610	25
Naphthalene	1300	J	ug/kg	4700	570	25
Nitrobenzene	ND		ug/kg	4200	700	25
NDPA/DPA	ND		ug/kg	3800	540	25
n-Nitrosodi-n-propylamine	ND		ug/kg	4700	730	25
Bis(2-ethylhexyl)phthalate	ND		ug/kg	4700	1600	25
Butyl benzyl phthalate	ND		ug/kg	4700	1200	25

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-07 D  
 Client ID: WC15\_COMP\_0-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 15:10  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Di-n-butylphthalate	ND		ug/kg	4700	890	25
Di-n-octylphthalate	ND		ug/kg	4700	1600	25
Diethyl phthalate	ND		ug/kg	4700	440	25
Dimethyl phthalate	ND		ug/kg	4700	990	25
Benzo(a)anthracene	23000		ug/kg	2800	530	25
Benzo(a)pyrene	23000		ug/kg	3800	1200	25
Benzo(b)fluoranthene	16000		ug/kg	2800	790	25
Benzo(k)fluoranthene	2100	J	ug/kg	2800	750	25
Chrysene	35000		ug/kg	2800	490	25
Acenaphthylene	ND		ug/kg	3800	730	25
Anthracene	2500	J	ug/kg	2800	920	25
Benzo(ghi)perylene	19000		ug/kg	3800	550	25
Fluorene	840	J	ug/kg	4700	460	25
Phenanthrene	9600		ug/kg	2800	570	25
Dibenzo(a,h)anthracene	7800		ug/kg	2800	540	25
Indeno(1,2,3-cd)pyrene	6600		ug/kg	3800	660	25
Pyrene	16000		ug/kg	2800	470	25
Biphenyl	ND		ug/kg	11000	610	25
4-Chloroaniline	ND		ug/kg	4700	860	25
2-Nitroaniline	ND		ug/kg	4700	910	25
3-Nitroaniline	ND		ug/kg	4700	890	25
4-Nitroaniline	ND		ug/kg	4700	2000	25
Dibenzofuran	ND		ug/kg	4700	440	25
2-Methylnaphthalene	3000	J	ug/kg	5600	570	25
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	4700	490	25
Acetophenone	ND		ug/kg	4700	580	25
n-Nitrosodimethylamine	ND		ug/kg	9400	900	25
2,4,6-Trichlorophenol	ND		ug/kg	2800	890	25
p-Chloro-m-cresol	ND		ug/kg	4700	700	25
2-Chlorophenol	ND		ug/kg	4700	560	25
2,4-Dichlorophenol	ND		ug/kg	4200	760	25
2,4-Dimethylphenol	ND		ug/kg	4700	1600	25
2-Nitrophenol	ND		ug/kg	10000	1800	25
4-Nitrophenol	ND		ug/kg	6600	1900	25
2,4-Dinitrophenol	ND		ug/kg	23000	2200	25
4,6-Dinitro-o-cresol	ND		ug/kg	12000	2300	25
Pentachlorophenol	ND		ug/kg	3800	1000	25

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435417**Project Number:** 170562203**Report Date:** 07/01/24**SAMPLE RESULTS**

Lab ID: L2435417-07 D  
 Client ID: WC15\_COMP\_0-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 15:10  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/kg	4700	710	25
2-Methylphenol	ND		ug/kg	4700	730	25
3-Methylphenol/4-Methylphenol	ND		ug/kg	6800	740	25
2,4,5-Trichlorophenol	ND		ug/kg	4700	900	25
Benzoic Acid	ND		ug/kg	15000	4800	25
Benzyl Alcohol	ND		ug/kg	4700	1400	25
Carbazole	ND		ug/kg	4700	460	25
Atrazine	ND		ug/kg	3800	1600	25
Benzaldehyde	ND		ug/kg	6200	1300	25
Caprolactam	ND		ug/kg	4700	1400	25
2,3,4,6-Tetrachlorophenol	ND		ug/kg	4700	950	25
1,4-Dioxane	ND		ug/kg	710	220	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	0	Q	25-120
Phenol-d6	0	Q	10-120
Nitrobenzene-d5	0	Q	23-120
2-Fluorobiphenyl	0	Q	30-120
2,4,6-Tribromophenol	0	Q	10-136
4-Terphenyl-d14	0	Q	18-120



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-14 D  
 Client ID: WC15\_COMP\_6-12  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 15:45  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/29/24 15:36  
 Analyst: SZ  
 Percent Solids: 73%

Extraction Method: EPA 3546  
 Extraction Date: 06/28/24 04:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	1600	J	ug/kg	4400	570	25
Benzidine	ND		ug/kg	18000	6000	25
1,2,4-Trichlorobenzene	ND		ug/kg	5500	630	25
Hexachlorobenzene	ND		ug/kg	3300	620	25
Bis(2-chloroethyl)ether	ND		ug/kg	5000	750	25
2-Chloronaphthalene	ND		ug/kg	5500	550	25
1,2-Dichlorobenzene	ND		ug/kg	5500	1000	25
1,3-Dichlorobenzene	ND		ug/kg	5500	950	25
1,4-Dichlorobenzene	ND		ug/kg	5500	970	25
3,3'-Dichlorobenzidine	ND		ug/kg	5500	1500	25
2,4-Dinitrotoluene	ND		ug/kg	5500	1100	25
2,6-Dinitrotoluene	ND		ug/kg	5500	950	25
Azobenzene	ND		ug/kg	5500	530	25
Fluoranthene	6000		ug/kg	3300	640	25
4-Chlorophenyl phenyl ether	ND		ug/kg	5500	590	25
4-Bromophenyl phenyl ether	ND		ug/kg	5500	850	25
Bis(2-chloroisopropyl)ether	ND		ug/kg	6600	950	25
Bis(2-chloroethoxy)methane	ND		ug/kg	6000	560	25
Hexachlorobutadiene	ND		ug/kg	5500	810	25
Hexachlorocyclopentadiene	ND		ug/kg	16000	5000	25
Hexachloroethane	ND		ug/kg	4400	900	25
Isophorone	ND		ug/kg	5000	720	25
Naphthalene	ND		ug/kg	5500	680	25
Nitrobenzene	ND		ug/kg	5000	820	25
NDPA/DPA	ND		ug/kg	4400	630	25
n-Nitrosodi-n-propylamine	ND		ug/kg	5500	860	25
Bis(2-ethylhexyl)phthalate	ND		ug/kg	5500	1900	25
Butyl benzyl phthalate	ND		ug/kg	5500	1400	25

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-14 D  
 Client ID: WC15\_COMP\_6-12  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 15:45  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Di-n-butylphthalate	ND		ug/kg	5500	1000	25
Di-n-octylphthalate	ND		ug/kg	5500	1900	25
Diethyl phthalate	ND		ug/kg	5500	510	25
Dimethyl phthalate	ND		ug/kg	5500	1200	25
Benzo(a)anthracene	41000		ug/kg	3300	620	25
Benzo(a)pyrene	38000		ug/kg	4400	1400	25
Benzo(b)fluoranthene	22000		ug/kg	3300	930	25
Benzo(k)fluoranthene	4300		ug/kg	3300	890	25
Chrysene	40000		ug/kg	3300	580	25
Acenaphthylene	ND		ug/kg	4400	860	25
Anthracene	4400		ug/kg	3300	1100	25
Benzo(ghi)perylene	24000		ug/kg	4400	650	25
Fluorene	3300	J	ug/kg	5500	540	25
Phenanthrene	12000		ug/kg	3300	670	25
Dibenzo(a,h)anthracene	13000		ug/kg	3300	640	25
Indeno(1,2,3-cd)pyrene	9500		ug/kg	4400	770	25
Pyrene	18000		ug/kg	3300	550	25
Biphenyl	ND		ug/kg	13000	720	25
4-Chloroaniline	ND		ug/kg	5500	1000	25
2-Nitroaniline	ND		ug/kg	5500	1100	25
3-Nitroaniline	ND		ug/kg	5500	1000	25
4-Nitroaniline	ND		ug/kg	5500	2300	25
Dibenzofuran	660	J	ug/kg	5500	520	25
2-Methylnaphthalene	ND		ug/kg	6600	670	25
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	5500	580	25
Acetophenone	ND		ug/kg	5500	690	25
n-Nitrosodimethylamine	ND		ug/kg	11000	1100	25
2,4,6-Trichlorophenol	ND		ug/kg	3300	1000	25
p-Chloro-m-cresol	ND		ug/kg	5500	830	25
2-Chlorophenol	ND		ug/kg	5500	660	25
2,4-Dichlorophenol	ND		ug/kg	5000	890	25
2,4-Dimethylphenol	ND		ug/kg	5500	1800	25
2-Nitrophenol	ND		ug/kg	12000	2100	25
4-Nitrophenol	ND		ug/kg	7800	2300	25
2,4-Dinitrophenol	ND		ug/kg	27000	2600	25
4,6-Dinitro-o-cresol	ND		ug/kg	14000	2700	25
Pentachlorophenol	ND		ug/kg	4400	1200	25

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435417**Project Number:** 170562203**Report Date:** 07/01/24**SAMPLE RESULTS**

Lab ID: L2435417-14 D  
 Client ID: WC15\_COMP\_6-12  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 15:45  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	ND		ug/kg	5500	840	25
2-Methylphenol	ND		ug/kg	5500	860	25
3-Methylphenol/4-Methylphenol	ND		ug/kg	8000	870	25
2,4,5-Trichlorophenol	ND		ug/kg	5500	1100	25
Benzoic Acid	ND		ug/kg	18000	5600	25
Benzyl Alcohol	ND		ug/kg	5500	1700	25
Carbazole	ND		ug/kg	5500	540	25
Atrazine	ND		ug/kg	4400	1900	25
Benzaldehyde	ND		ug/kg	7300	1500	25
Caprolactam	ND		ug/kg	5500	1700	25
2,3,4,6-Tetrachlorophenol	ND		ug/kg	5500	1100	25
1,4-Dioxane	ND		ug/kg	830	260	25

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	0	Q	25-120
Phenol-d6	0	Q	10-120
Nitrobenzene-d5	0	Q	23-120
2-Fluorobiphenyl	0	Q	30-120
2,4,6-Tribromophenol	0	Q	10-136
4-Terphenyl-d14	0	Q	18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-21 D  
 Client ID: WC15\_COMP\_12-16  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:15  
 Date Received: 06/21/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/29/24 15:59  
 Analyst: SZ  
 Percent Solids: 88%

Extraction Method: EPA 3546  
 Extraction Date: 06/28/24 04:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	260	J	ug/kg	750	97.	5
Benzidine	ND		ug/kg	3100	1000	5
1,2,4-Trichlorobenzene	ND		ug/kg	940	110	5
Hexachlorobenzene	ND		ug/kg	560	100	5
Bis(2-chloroethyl)ether	ND		ug/kg	840	130	5
2-Chloronaphthalene	ND		ug/kg	940	93.	5
1,2-Dichlorobenzene	ND		ug/kg	940	170	5
1,3-Dichlorobenzene	ND		ug/kg	940	160	5
1,4-Dichlorobenzene	ND		ug/kg	940	160	5
3,3'-Dichlorobenzidine	ND		ug/kg	940	250	5
2,4-Dinitrotoluene	ND		ug/kg	940	190	5
2,6-Dinitrotoluene	ND		ug/kg	940	160	5
Azobenzene	ND		ug/kg	940	90.	5
Fluoranthene	910		ug/kg	560	110	5
4-Chlorophenyl phenyl ether	ND		ug/kg	940	100	5
4-Bromophenyl phenyl ether	ND		ug/kg	940	140	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1100	160	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	94.	5
Hexachlorobutadiene	ND		ug/kg	940	140	5
Hexachlorocyclopentadiene	ND		ug/kg	2700	850	5
Hexachloroethane	ND		ug/kg	750	150	5
Isophorone	ND		ug/kg	840	120	5
Naphthalene	ND		ug/kg	940	110	5
Nitrobenzene	ND		ug/kg	840	140	5
NDPA/DPA	ND		ug/kg	750	110	5
n-Nitrosodi-n-propylamine	ND		ug/kg	940	140	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	940	320	5
Butyl benzyl phthalate	ND		ug/kg	940	240	5

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-21 D  
 Client ID: WC15\_COMP\_12-16  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:15  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Di-n-butylphthalate	ND		ug/kg	940	180	5
Di-n-octylphthalate	ND		ug/kg	940	320	5
Diethyl phthalate	ND		ug/kg	940	86.	5
Dimethyl phthalate	ND		ug/kg	940	200	5
Benzo(a)anthracene	5400		ug/kg	560	100	5
Benzo(a)pyrene	4500		ug/kg	750	230	5
Benzo(b)fluoranthene	3100		ug/kg	560	160	5
Benzo(k)fluoranthene	530	J	ug/kg	560	150	5
Chrysene	5500		ug/kg	560	97.	5
Acenaphthylene	ND		ug/kg	750	140	5
Anthracene	760		ug/kg	560	180	5
Benzo(ghi)perylene	2800		ug/kg	750	110	5
Fluorene	430	J	ug/kg	940	91.	5
Phenanthrene	1800		ug/kg	560	110	5
Dibenzo(a,h)anthracene	1600		ug/kg	560	110	5
Indeno(1,2,3-cd)pyrene	1100		ug/kg	750	130	5
Pyrene	3100		ug/kg	560	93.	5
Biphenyl	ND		ug/kg	2100	120	5
4-Chloroaniline	ND		ug/kg	940	170	5
2-Nitroaniline	ND		ug/kg	940	180	5
3-Nitroaniline	ND		ug/kg	940	180	5
4-Nitroaniline	ND		ug/kg	940	390	5
Dibenzofuran	ND		ug/kg	940	88.	5
2-Methylnaphthalene	120	J	ug/kg	1100	110	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	940	98.	5
Acetophenone	ND		ug/kg	940	120	5
n-Nitrosodimethylamine	ND		ug/kg	1900	180	5
2,4,6-Trichlorophenol	ND		ug/kg	560	180	5
p-Chloro-m-cresol	ND		ug/kg	940	140	5
2-Chlorophenol	ND		ug/kg	940	110	5
2,4-Dichlorophenol	ND		ug/kg	840	150	5
2,4-Dimethylphenol	ND		ug/kg	940	310	5
2-Nitrophenol	ND		ug/kg	2000	350	5
4-Nitrophenol	ND		ug/kg	1300	380	5
2,4-Dinitrophenol	ND		ug/kg	4500	440	5
4,6-Dinitro-o-cresol	ND		ug/kg	2400	450	5
Pentachlorophenol	ND		ug/kg	750	200	5

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435417**Project Number:** 170562203**Report Date:** 07/01/24**SAMPLE RESULTS**

Lab ID: L2435417-21 D  
 Client ID: WC15\_COMP\_12-16  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:15  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	ND		ug/kg	940	140	5
2-Methylphenol	ND		ug/kg	940	140	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1300	150	5
2,4,5-Trichlorophenol	ND		ug/kg	940	180	5
Benzoic Acid	ND		ug/kg	3000	950	5
Benzyl Alcohol	ND		ug/kg	940	290	5
Carbazole	ND		ug/kg	940	91.	5
Atrazine	ND		ug/kg	750	330	5
Benzaldehyde	ND		ug/kg	1200	250	5
Caprolactam	ND		ug/kg	940	280	5
2,3,4,6-Tetrachlorophenol	ND		ug/kg	940	190	5
1,4-Dioxane	ND		ug/kg	140	43.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	87		10-120
Nitrobenzene-d5	115		23-120
2-Fluorobiphenyl	109		30-120
2,4,6-Tribromophenol	99		10-136
4-Terphenyl-d14	103		18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-23  
 Client ID: WC21\_COMP\_0-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:45  
 Date Received: 06/21/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/28/24 05:02  
 Analyst: SZ  
 Percent Solids: 91%  
 TCLP/SPLP Ext. Date: 06/24/24 17:23

Extraction Method: EPA 3510C  
 Extraction Date: 06/26/24 14:44

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>TCLP Semivolatiles by EPA 1311 - Westborough Lab</b>						
Hexachlorobenzene	ND		ug/l	10	3.4	1
2,4-Dinitrotoluene	ND		ug/l	25	1.9	1
Hexachlorobutadiene	ND		ug/l	10	3.0	1
Hexachloroethane	ND		ug/l	10	2.2	1
Nitrobenzene	ND		ug/l	10	3.3	1
2,4,6-Trichlorophenol	ND		ug/l	25	2.5	1
Pentachlorophenol	ND		ug/l	50	9.8	1
2-Methylphenol	ND		ug/l	25	5.5	1
3-Methylphenol/4-Methylphenol	4.2	J	ug/l	25	2.8	1
2,4,5-Trichlorophenol	ND		ug/l	25	1.9	1
Pyridine	ND		ug/l	18	4.5	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	77		21-120
Phenol-d6	72		10-120
Nitrobenzene-d5	97		23-120
2-Fluorobiphenyl	99		15-120
2,4,6-Tribromophenol	93		10-120
4-Terphenyl-d14	99		33-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-23 D  
 Client ID: WC21\_COMP\_0-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:45  
 Date Received: 06/21/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/29/24 16:22  
 Analyst: SZ  
 Percent Solids: 91%

Extraction Method: EPA 3546  
 Extraction Date: 06/28/24 04:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	2600	J	ug/kg	7300	940	50
Benzidine	ND		ug/kg	30000	9900	50
1,2,4-Trichlorobenzene	ND		ug/kg	9100	1000	50
Hexachlorobenzene	ND		ug/kg	5500	1000	50
Bis(2-chloroethyl)ether	ND		ug/kg	8200	1200	50
2-Chloronaphthalene	ND		ug/kg	9100	900	50
1,2-Dichlorobenzene	ND		ug/kg	9100	1600	50
1,3-Dichlorobenzene	ND		ug/kg	9100	1600	50
1,4-Dichlorobenzene	ND		ug/kg	9100	1600	50
3,3'-Dichlorobenzidine	ND		ug/kg	9100	2400	50
2,4-Dinitrotoluene	ND		ug/kg	9100	1800	50
2,6-Dinitrotoluene	ND		ug/kg	9100	1600	50
Azobenzene	ND		ug/kg	9100	880	50
Fluoranthene	24000		ug/kg	5500	1000	50
4-Chlorophenyl phenyl ether	ND		ug/kg	9100	980	50
4-Bromophenyl phenyl ether	ND		ug/kg	9100	1400	50
Bis(2-chloroisopropyl)ether	ND		ug/kg	11000	1600	50
Bis(2-chloroethoxy)methane	ND		ug/kg	9800	910	50
Hexachlorobutadiene	ND		ug/kg	9100	1300	50
Hexachlorocyclopentadiene	ND		ug/kg	26000	8300	50
Hexachloroethane	ND		ug/kg	7300	1500	50
Isophorone	ND		ug/kg	8200	1200	50
Naphthalene	9100		ug/kg	9100	1100	50
Nitrobenzene	ND		ug/kg	8200	1300	50
NDPA/DPA	ND		ug/kg	7300	1000	50
n-Nitrosodi-n-propylamine	ND		ug/kg	9100	1400	50
Bis(2-ethylhexyl)phthalate	ND		ug/kg	9100	3200	50
Butyl benzyl phthalate	ND		ug/kg	9100	2300	50



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-23 D  
 Client ID: WC21\_COMP\_0-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:45  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Di-n-butylphthalate	ND		ug/kg	9100	1700	50
Di-n-octylphthalate	ND		ug/kg	9100	3100	50
Diethyl phthalate	ND		ug/kg	9100	840	50
Dimethyl phthalate	ND		ug/kg	9100	1900	50
Benzo(a)anthracene	67000		ug/kg	5500	1000	50
Benzo(a)pyrene	61000		ug/kg	7300	2200	50
Benzo(b)fluoranthene	48000		ug/kg	5500	1500	50
Benzo(k)fluoranthene	6100		ug/kg	5500	1400	50
Chrysene	84000		ug/kg	5500	950	50
Acenaphthylene	ND		ug/kg	7300	1400	50
Anthracene	7900		ug/kg	5500	1800	50
Benzo(ghi)perylene	46000		ug/kg	7300	1100	50
Fluorene	4400	J	ug/kg	9100	890	50
Phenanthrene	30000		ug/kg	5500	1100	50
Dibenzo(a,h)anthracene	23000		ug/kg	5500	1000	50
Indeno(1,2,3-cd)pyrene	17000		ug/kg	7300	1300	50
Pyrene	43000		ug/kg	5500	910	50
Biphenyl	ND		ug/kg	21000	1200	50
4-Chloroaniline	ND		ug/kg	9100	1600	50
2-Nitroaniline	ND		ug/kg	9100	1800	50
3-Nitroaniline	ND		ug/kg	9100	1700	50
4-Nitroaniline	ND		ug/kg	9100	3800	50
Dibenzofuran	1700	J	ug/kg	9100	860	50
2-Methylnaphthalene	18000		ug/kg	11000	1100	50
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	9100	950	50
Acetophenone	ND		ug/kg	9100	1100	50
n-Nitrosodimethylamine	ND		ug/kg	18000	1800	50
2,4,6-Trichlorophenol	ND		ug/kg	5500	1700	50
p-Chloro-m-cresol	ND		ug/kg	9100	1400	50
2-Chlorophenol	ND		ug/kg	9100	1100	50
2,4-Dichlorophenol	ND		ug/kg	8200	1500	50
2,4-Dimethylphenol	ND		ug/kg	9100	3000	50
2-Nitrophenol	ND		ug/kg	20000	3400	50
4-Nitrophenol	ND		ug/kg	13000	3700	50
2,4-Dinitrophenol	ND		ug/kg	44000	4200	50
4,6-Dinitro-o-cresol	ND		ug/kg	24000	4400	50
Pentachlorophenol	ND		ug/kg	7300	2000	50

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-23 D  
 Client ID: WC21\_COMP\_0-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:45  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	ND		ug/kg	9100	1400	50
2-Methylphenol	ND		ug/kg	9100	1400	50
3-Methylphenol/4-Methylphenol	ND		ug/kg	13000	1400	50
2,4,5-Trichlorophenol	ND		ug/kg	9100	1700	50
Benzoic Acid	ND		ug/kg	30000	9200	50
Benzyl Alcohol	ND		ug/kg	9100	2800	50
Carbazole	1400	J	ug/kg	9100	890	50
Atrazine	ND		ug/kg	7300	3200	50
Benzaldehyde	ND		ug/kg	12000	2500	50
Caprolactam	ND		ug/kg	9100	2800	50
2,3,4,6-Tetrachlorophenol	ND		ug/kg	9100	1800	50
1,4-Dioxane	ND		ug/kg	1400	420	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	0	Q	25-120
Phenol-d6	0	Q	10-120
Nitrobenzene-d5	0	Q	23-120
2-Fluorobiphenyl	0	Q	30-120
2,4,6-Tribromophenol	0	Q	10-136
4-Terphenyl-d14	0	Q	18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-25 D  
 Client ID: WC21\_COMP\_6-12  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 17:05  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/29/24 16:45  
 Analyst: SZ  
 Percent Solids: 82%

Extraction Method: EPA 3546  
 Extraction Date: 06/28/24 04:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	ND		ug/kg	48000	6200	300
Benzidine	ND		ug/kg	200000	64000	300
1,2,4-Trichlorobenzene	ND		ug/kg	59000	6800	300
Hexachlorobenzene	ND		ug/kg	36000	6600	300
Bis(2-chloroethyl)ether	ND		ug/kg	53000	8000	300
2-Chloronaphthalene	ND		ug/kg	59000	5900	300
1,2-Dichlorobenzene	ND		ug/kg	59000	11000	300
1,3-Dichlorobenzene	ND		ug/kg	59000	10000	300
1,4-Dichlorobenzene	ND		ug/kg	59000	10000	300
3,3'-Dichlorobenzidine	ND		ug/kg	59000	16000	300
2,4-Dinitrotoluene	ND		ug/kg	59000	12000	300
2,6-Dinitrotoluene	ND		ug/kg	59000	10000	300
Azobenzene	ND		ug/kg	59000	5700	300
Fluoranthene	23000	J	ug/kg	36000	6800	300
4-Chlorophenyl phenyl ether	ND		ug/kg	59000	6400	300
4-Bromophenyl phenyl ether	ND		ug/kg	59000	9100	300
Bis(2-chloroisopropyl)ether	ND		ug/kg	71000	10000	300
Bis(2-chloroethoxy)methane	ND		ug/kg	64000	5900	300
Hexachlorobutadiene	ND		ug/kg	59000	8700	300
Hexachlorocyclopentadiene	ND		ug/kg	170000	54000	300
Hexachloroethane	ND		ug/kg	48000	9600	300
Isophorone	ND		ug/kg	53000	7700	300
Naphthalene	25000	J	ug/kg	59000	7200	300
Nitrobenzene	ND		ug/kg	53000	8800	300
NDPA/DPA	ND		ug/kg	48000	6800	300
n-Nitrosodi-n-propylamine	ND		ug/kg	59000	9200	300
Bis(2-ethylhexyl)phthalate	ND		ug/kg	59000	20000	300
Butyl benzyl phthalate	ND		ug/kg	59000	15000	300

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-25 D  
 Client ID: WC21\_COMP\_6-12  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 17:05  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Di-n-butylphthalate	ND		ug/kg	59000	11000	300
Di-n-octylphthalate	ND		ug/kg	59000	20000	300
Diethyl phthalate	ND		ug/kg	59000	5500	300
Dimethyl phthalate	ND		ug/kg	59000	12000	300
Benzo(a)anthracene	170000		ug/kg	36000	6700	300
Benzo(a)pyrene	130000		ug/kg	48000	14000	300
Benzo(b)fluoranthene	82000		ug/kg	36000	10000	300
Benzo(k)fluoranthene	11000	J	ug/kg	36000	9500	300
Chrysene	240000		ug/kg	36000	6200	300
Acenaphthylene	ND		ug/kg	48000	9200	300
Anthracene	ND		ug/kg	36000	12000	300
Benzo(ghi)perylene	81000		ug/kg	48000	7000	300
Fluorene	6200	J	ug/kg	59000	5800	300
Phenanthrene	47000		ug/kg	36000	7200	300
Dibenzo(a,h)anthracene	50000		ug/kg	36000	6900	300
Indeno(1,2,3-cd)pyrene	24000	J	ug/kg	48000	8300	300
Pyrene	78000		ug/kg	36000	5900	300
Biphenyl	ND		ug/kg	140000	7700	300
4-Chloroaniline	ND		ug/kg	59000	11000	300
2-Nitroaniline	ND		ug/kg	59000	11000	300
3-Nitroaniline	ND		ug/kg	59000	11000	300
4-Nitroaniline	ND		ug/kg	59000	24000	300
Dibenzofuran	ND		ug/kg	59000	5600	300
2-Methylnaphthalene	45000	J	ug/kg	71000	7200	300
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	59000	6200	300
Acetophenone	ND		ug/kg	59000	7400	300
n-Nitrosodimethylamine	ND		ug/kg	120000	11000	300
2,4,6-Trichlorophenol	ND		ug/kg	36000	11000	300
p-Chloro-m-cresol	ND		ug/kg	59000	8800	300
2-Chlorophenol	ND		ug/kg	59000	7000	300
2,4-Dichlorophenol	ND		ug/kg	53000	9500	300
2,4-Dimethylphenol	ND		ug/kg	59000	20000	300
2-Nitrophenol	ND		ug/kg	130000	22000	300
4-Nitrophenol	ND		ug/kg	83000	24000	300
2,4-Dinitrophenol	ND		ug/kg	280000	28000	300
4,6-Dinitro-o-cresol	ND		ug/kg	150000	28000	300
Pentachlorophenol	ND		ug/kg	48000	13000	300

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435417**Project Number:** 170562203**Report Date:** 07/01/24**SAMPLE RESULTS**

Lab ID: L2435417-25 D  
 Client ID: WC21\_COMP\_6-12  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 17:05  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Phenol	ND		ug/kg	59000	9000	300
2-Methylphenol	ND		ug/kg	59000	9200	300
3-Methylphenol/4-Methylphenol	ND		ug/kg	86000	9300	300
2,4,5-Trichlorophenol	ND		ug/kg	59000	11000	300
Benzoic Acid	ND		ug/kg	190000	60000	300
Benzyl Alcohol	ND		ug/kg	59000	18000	300
Carbazole	ND		ug/kg	59000	5800	300
Atrazine	ND		ug/kg	48000	21000	300
Benzaldehyde	ND		ug/kg	78000	16000	300
Caprolactam	ND		ug/kg	59000	18000	300
2,3,4,6-Tetrachlorophenol	ND		ug/kg	59000	12000	300
1,4-Dioxane	ND		ug/kg	8900	2700	300

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	0	Q	25-120
Phenol-d6	0	Q	10-120
Nitrobenzene-d5	0	Q	23-120
2-Fluorobiphenyl	0	Q	30-120
2,4,6-Tribromophenol	0	Q	10-136
4-Terphenyl-d14	0	Q	18-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-27 D  
 Client ID: WC21\_COMP\_12-16  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 17:20  
 Date Received: 06/21/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8270E  
 Analytical Date: 06/29/24 17:08  
 Analyst: SZ  
 Percent Solids: 83%

Extraction Method: EPA 3546  
 Extraction Date: 06/28/24 04:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Acenaphthene	320	J	ug/kg	780	100	5
Benzidine	ND		ug/kg	3200	1000	5
1,2,4-Trichlorobenzene	ND		ug/kg	970	110	5
Hexachlorobenzene	ND		ug/kg	580	110	5
Bis(2-chloroethyl)ether	ND		ug/kg	880	130	5
2-Chloronaphthalene	ND		ug/kg	970	97.	5
1,2-Dichlorobenzene	ND		ug/kg	970	170	5
1,3-Dichlorobenzene	ND		ug/kg	970	170	5
1,4-Dichlorobenzene	ND		ug/kg	970	170	5
3,3'-Dichlorobenzidine	ND		ug/kg	970	260	5
2,4-Dinitrotoluene	ND		ug/kg	970	190	5
2,6-Dinitrotoluene	ND		ug/kg	970	170	5
Azobenzene	ND		ug/kg	970	94.	5
Fluoranthene	730		ug/kg	580	110	5
4-Chlorophenyl phenyl ether	ND		ug/kg	970	100	5
4-Bromophenyl phenyl ether	ND		ug/kg	970	150	5
Bis(2-chloroisopropyl)ether	ND		ug/kg	1200	170	5
Bis(2-chloroethoxy)methane	ND		ug/kg	1000	98.	5
Hexachlorobutadiene	ND		ug/kg	970	140	5
Hexachlorocyclopentadiene	ND		ug/kg	2800	880	5
Hexachloroethane	ND		ug/kg	780	160	5
Isophorone	ND		ug/kg	880	130	5
Naphthalene	300	J	ug/kg	970	120	5
Nitrobenzene	ND		ug/kg	880	140	5
NDPA/DPA	ND		ug/kg	780	110	5
n-Nitrosodi-n-propylamine	ND		ug/kg	970	150	5
Bis(2-ethylhexyl)phthalate	ND		ug/kg	970	340	5
Butyl benzyl phthalate	ND		ug/kg	970	240	5

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-27 D  
 Client ID: WC21\_COMP\_12-16  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 17:20  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>Semivolatile Organics by GC/MS - Westborough Lab</b>						
Di-n-butylphthalate	ND		ug/kg	970	180	5
Di-n-octylphthalate	ND		ug/kg	970	330	5
Diethyl phthalate	ND		ug/kg	970	90.	5
Dimethyl phthalate	ND		ug/kg	970	200	5
Benzo(a)anthracene	5700		ug/kg	580	110	5
Benzo(a)pyrene	4200		ug/kg	780	240	5
Benzo(b)fluoranthene	2700		ug/kg	580	160	5
Benzo(k)fluoranthene	390	J	ug/kg	580	160	5
Chrysene	5600		ug/kg	580	100	5
Acenaphthylene	ND		ug/kg	780	150	5
Anthracene	1000		ug/kg	580	190	5
Benzo(ghi)perylene	2500		ug/kg	780	110	5
Fluorene	510	J	ug/kg	970	95.	5
Phenanthrene	1500		ug/kg	580	120	5
Dibenzo(a,h)anthracene	1500		ug/kg	580	110	5
Indeno(1,2,3-cd)pyrene	970		ug/kg	780	140	5
Pyrene	3700		ug/kg	580	97.	5
Biphenyl	ND		ug/kg	2200	130	5
4-Chloroaniline	ND		ug/kg	970	180	5
2-Nitroaniline	ND		ug/kg	970	190	5
3-Nitroaniline	ND		ug/kg	970	180	5
4-Nitroaniline	ND		ug/kg	970	400	5
Dibenzofuran	ND		ug/kg	970	92.	5
2-Methylnaphthalene	320	J	ug/kg	1200	120	5
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	970	100	5
Acetophenone	ND		ug/kg	970	120	5
n-Nitrosodimethylamine	ND		ug/kg	1900	190	5
2,4,6-Trichlorophenol	ND		ug/kg	580	180	5
p-Chloro-m-cresol	ND		ug/kg	970	140	5
2-Chlorophenol	ND		ug/kg	970	120	5
2,4-Dichlorophenol	ND		ug/kg	880	160	5
2,4-Dimethylphenol	ND		ug/kg	970	320	5
2-Nitrophenol	ND		ug/kg	2100	370	5
4-Nitrophenol	ND		ug/kg	1400	400	5
2,4-Dinitrophenol	ND		ug/kg	4700	450	5
4,6-Dinitro-o-cresol	ND		ug/kg	2500	470	5
Pentachlorophenol	ND		ug/kg	780	210	5

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-27 D  
 Client ID: WC21\_COMP\_12-16  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 17:20  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Phenol	ND		ug/kg	970	150	5
2-Methylphenol	ND		ug/kg	970	150	5
3-Methylphenol/4-Methylphenol	ND		ug/kg	1400	150	5
2,4,5-Trichlorophenol	ND		ug/kg	970	190	5
Benzoic Acid	ND		ug/kg	3200	980	5
Benzyl Alcohol	ND		ug/kg	970	300	5
Carbazole	ND		ug/kg	970	95.	5
Atrazine	ND		ug/kg	780	340	5
Benzaldehyde	ND		ug/kg	1300	260	5
Caprolactam	ND		ug/kg	970	300	5
2,3,4,6-Tetrachlorophenol	ND		ug/kg	970	200	5
1,4-Dioxane	ND		ug/kg	150	45.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	84		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	110		23-120
2-Fluorobiphenyl	92		30-120
2,4,6-Tribromophenol	89		10-136
4-Terphenyl-d14	77		18-120



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/28/24 01:11  
Analyst: SZ  
TCLP/SPLP Extraction Date: 06/24/24 17:23

Extraction Method: EPA 3510C  
Extraction Date: 06/26/24 14:44

Parameter	Result	Qualifier	Units	RL	MDL
TCLP Semivolatiles by EPA 1311 - Westborough Lab for sample(s): 23 Batch: WG1939751-1					
Hexachlorobenzene	ND		ug/l	10	3.4
2,4-Dinitrotoluene	ND		ug/l	25	1.9
Hexachlorobutadiene	ND		ug/l	10	3.0
Hexachloroethane	ND		ug/l	10	2.2
Nitrobenzene	ND		ug/l	10	3.3
2,4,6-Trichlorophenol	ND		ug/l	25	2.5
Pentachlorophenol	ND		ug/l	50	9.8
2-Methylphenol	ND		ug/l	25	5.5
3-Methylphenol/4-Methylphenol	ND		ug/l	25	2.8
2,4,5-Trichlorophenol	ND		ug/l	25	1.9
Pyridine	ND		ug/l	18	4.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		21-120
Phenol-d6	54		10-120
Nitrobenzene-d5	74		23-120
2-Fluorobiphenyl	79		15-120
2,4,6-Tribromophenol	67		10-120
4-Terphenyl-d14	78		33-120

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/28/24 23:25  
Analyst: JG

Extraction Method: EPA 3546  
Extraction Date: 06/28/24 04:37

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07,14,21,23,25,27 Batch: WG1940615-1					
Acenaphthene	ND		ug/kg	130	17.
Benzidine	ND		ug/kg	530	180
1,2,4-Trichlorobenzene	ND		ug/kg	160	18.
Hexachlorobenzene	ND		ug/kg	97	18.
Bis(2-chloroethyl)ether	ND		ug/kg	140	22.
2-Chloronaphthalene	ND		ug/kg	160	16.
1,2-Dichlorobenzene	ND		ug/kg	160	29.
1,3-Dichlorobenzene	ND		ug/kg	160	28.
1,4-Dichlorobenzene	ND		ug/kg	160	28.
3,3'-Dichlorobenzidine	ND		ug/kg	160	43.
2,4-Dinitrotoluene	ND		ug/kg	160	32.
2,6-Dinitrotoluene	ND		ug/kg	160	28.
Azobenzene	ND		ug/kg	160	16.
Fluoranthene	ND		ug/kg	97	18.
4-Chlorophenyl phenyl ether	ND		ug/kg	160	17.
4-Bromophenyl phenyl ether	ND		ug/kg	160	25.
Bis(2-chloroisopropyl)ether	ND		ug/kg	190	28.
Bis(2-chloroethoxy)methane	ND		ug/kg	170	16.
Hexachlorobutadiene	ND		ug/kg	160	24.
Hexachlorocyclopentadiene	ND		ug/kg	460	150
Hexachloroethane	ND		ug/kg	130	26.
Isophorone	ND		ug/kg	140	21.
Naphthalene	ND		ug/kg	160	20.
Nitrobenzene	ND		ug/kg	140	24.
NDPA/DPA	ND		ug/kg	130	18.
n-Nitrosodi-n-propylamine	ND		ug/kg	160	25.
Bis(2-ethylhexyl)phthalate	ND		ug/kg	160	56.
Butyl benzyl phthalate	ND		ug/kg	160	41.
Di-n-butylphthalate	ND		ug/kg	160	31.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/28/24 23:25  
Analyst: JG

Extraction Method: EPA 3546  
Extraction Date: 06/28/24 04:37

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07,14,21,23,25,27 Batch: WG1940615-1					
Di-n-octylphthalate	ND		ug/kg	160	55.
Diethyl phthalate	ND		ug/kg	160	15.
Dimethyl phthalate	ND		ug/kg	160	34.
Benzo(a)anthracene	ND		ug/kg	97	18.
Benzo(a)pyrene	ND		ug/kg	130	39.
Benzo(b)fluoranthene	ND		ug/kg	97	27.
Benzo(k)fluoranthene	ND		ug/kg	97	26.
Chrysene	ND		ug/kg	97	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	97	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	97	20.
Dibenzo(a,h)anthracene	ND		ug/kg	97	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	22.
Pyrene	ND		ug/kg	97	16.
Biphenyl	ND		ug/kg	370	21.
4-Chloroaniline	ND		ug/kg	160	29.
2-Nitroaniline	ND		ug/kg	160	31.
3-Nitroaniline	ND		ug/kg	160	30.
4-Nitroaniline	ND		ug/kg	160	67.
Dibenzofuran	ND		ug/kg	160	15.
2-Methylnaphthalene	ND		ug/kg	190	20.
1,2,4,5-Tetrachlorobenzene	ND		ug/kg	160	17.
Acetophenone	ND		ug/kg	160	20.
n-Nitrosodimethylamine	ND		ug/kg	320	31.
2,4,6-Trichlorophenol	ND		ug/kg	97	31.
p-Chloro-m-cresol	ND		ug/kg	160	24.
2-Chlorophenol	ND		ug/kg	160	19.

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8270E  
Analytical Date: 06/28/24 23:25  
Analyst: JG

Extraction Method: EPA 3546  
Extraction Date: 06/28/24 04:37

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07,14,21,23,25,27 Batch: WG1940615-1					
2,4-Dichlorophenol	ND		ug/kg	140	26.
2,4-Dimethylphenol	ND		ug/kg	160	53.
2-Nitrophenol	ND		ug/kg	350	61.
4-Nitrophenol	ND		ug/kg	230	66.
2,4-Dinitrophenol	ND		ug/kg	780	75.
4,6-Dinitro-o-cresol	ND		ug/kg	420	78.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	24.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	230	25.
2,4,5-Trichlorophenol	ND		ug/kg	160	31.
Benzoic Acid	ND		ug/kg	520	160
Benzyl Alcohol	ND		ug/kg	160	50.
Carbazole	ND		ug/kg	160	16.
Atrazine	ND		ug/kg	130	57.
Benzaldehyde	ND		ug/kg	210	44.
Caprolactam	ND		ug/kg	160	49.
2,3,4,6-Tetrachlorophenol	ND		ug/kg	160	33.
1,4-Dioxane	ND		ug/kg	24	7.4

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis  
 Batch Quality Control**

Analytical Method: 1,8270E  
 Analytical Date: 06/28/24 23:25  
 Analyst: JG

Extraction Method: EPA 3546  
 Extraction Date: 06/28/24 04:37

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 07,14,21,23,25,27 Batch: WG1940615-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	78		10-120
Nitrobenzene-d5	68		23-120
2-Fluorobiphenyl	78		30-120
2,4,6-Tribromophenol	71		10-136
4-Terphenyl-d14	89		18-120

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

Parameter	LCS %Recovery	Qual	LCS %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
TCLP Semivolatiles by EPA 1311 - Westborough Lab Associated sample(s): 23 Batch: WG1939751-2 WG1939751-3								
Hexachlorobenzene	98		107		40-140	9		30
2,4-Dinitrotoluene	115		122		40-132	6		30
Hexachlorobutadiene	73		80		28-111	9		30
Hexachloroethane	64		69		21-105	8		30
Nitrobenzene	101		108		40-140	7		30
2,4,6-Trichlorophenol	106		116		30-130	9		30
Pentachlorophenol	100		107	Q	9-103	7		30
2-Methylphenol	92		98		30-130	6		30
3-Methylphenol/4-Methylphenol	100		106		30-130	6		30
2,4,5-Trichlorophenol	109		122		30-130	11		30
Pyridine	38		40		10-66	5		30

Surrogate	LCS %Recovery	Qual	LCS %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	87		93		21-120
Phenol-d6	85		93		10-120
Nitrobenzene-d5	102		110		23-120
2-Fluorobiphenyl	90		99		15-120
2,4,6-Tribromophenol	106		112		10-120
4-Terphenyl-d14	96		103		33-120



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07,14,21,23,25,27 Batch: WG1940615-2 WG1940615-3								
Acenaphthene	83		85		31-137	2		50
Benzidine	30		27		10-66	11		50
1,2,4-Trichlorobenzene	82		83		38-107	1		50
Hexachlorobenzene	89		89		40-140	0		50
Bis(2-chloroethyl)ether	82		84		40-140	2		50
2-Chloronaphthalene	85		87		40-140	2		50
1,2-Dichlorobenzene	76		78		40-140	3		50
1,3-Dichlorobenzene	74		77		40-140	4		50
1,4-Dichlorobenzene	75		77		28-104	3		50
3,3'-Dichlorobenzidine	74		73		40-140	1		50
2,4-Dinitrotoluene	94		93		40-132	1		50
2,6-Dinitrotoluene	97		96		40-140	1		50
Azobenzene	90		90		40-140	0		50
Fluoranthene	95		94		40-140	1		50
4-Chlorophenyl phenyl ether	97		97		40-140	0		50
4-Bromophenyl phenyl ether	97		97		40-140	0		50
Bis(2-chloroisopropyl)ether	78		79		40-140	1		50
Bis(2-chloroethoxy)methane	88		91		40-117	3		50
Hexachlorobutadiene	103		107		40-140	4		50
Hexachlorocyclopentadiene	91		96		40-140	5		50
Hexachloroethane	82		84		40-140	2		50
Isophorone	84		86		40-140	2		50
Naphthalene	81		83		40-140	2		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07,14,21,23,25,27 Batch: WG1940615-2 WG1940615-3								
Nitrobenzene	85		87		40-140	2		50
NDPA/DPA	88		88		36-157	0		50
n-Nitrosodi-n-propylamine	92		91		32-121	1		50
Bis(2-ethylhexyl)phthalate	94		92		40-140	2		50
Butyl benzyl phthalate	104		103		40-140	1		50
Di-n-butylphthalate	94		94		40-140	0		50
Di-n-octylphthalate	101		100		40-140	1		50
Diethyl phthalate	91		91		40-140	0		50
Dimethyl phthalate	88		89		40-140	1		50
Benzo(a)anthracene	94		94		40-140	0		50
Benzo(a)pyrene	101		101		40-140	0		50
Benzo(b)fluoranthene	97		105		40-140	8		50
Benzo(k)fluoranthene	99		92		40-140	7		50
Chrysene	94		93		40-140	1		50
Acenaphthylene	84		85		40-140	1		50
Anthracene	89		90		40-140	1		50
Benzo(ghi)perylene	88		92		40-140	4		50
Fluorene	86		85		40-140	1		50
Phenanthrene	84		86		40-140	2		50
Dibenzo(a,h)anthracene	86		88		40-140	2		50
Indeno(1,2,3-cd)pyrene	89		93		40-140	4		50
Pyrene	96		94		35-142	2		50
Biphenyl	80		82		37-127	2		50



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07,14,21,23,25,27 Batch: WG1940615-2 WG1940615-3								
4-Chloroaniline	51		52		40-140	2		50
2-Nitroaniline	89		89		47-134	0		50
3-Nitroaniline	66		63		26-129	5		50
4-Nitroaniline	77		79		41-125	3		50
Dibenzofuran	84		84		40-140	0		50
2-Methylnaphthalene	85		86		40-140	1		50
1,2,4,5-Tetrachlorobenzene	94		97		40-117	3		50
Acetophenone	84		86		14-144	2		50
n-Nitrosodimethylamine	81		86		22-100	6		50
2,4,6-Trichlorophenol	95		95		30-130	0		50
p-Chloro-m-cresol	90		93		26-103	3		50
2-Chlorophenol	82		84		25-102	2		50
2,4-Dichlorophenol	83		84		30-130	1		50
2,4-Dimethylphenol	85		85		30-130	0		50
2-Nitrophenol	87		89		30-130	2		50
4-Nitrophenol	92		92		11-114	0		50
2,4-Dinitrophenol	81		86		4-130	6		50
4,6-Dinitro-o-cresol	104		99		10-130	5		50
Pentachlorophenol	87		88		17-109	1		50
Phenol	88		90		26-90	2		50
2-Methylphenol	86		86		30-130	0		50
3-Methylphenol/4-Methylphenol	84		82		30-130	2		50
2,4,5-Trichlorophenol	98		98		30-130	0		50

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 07,14,21,23,25,27 Batch: WG1940615-2 WG1940615-3								
Benzoic Acid	66		70		10-110	6		50
Benzyl Alcohol	92		92		40-140	0		50
Carbazole	86		86		54-128	0		50
Atrazine	82		78		40-140	5		50
Benzaldehyde	72		71		40-140	1		50
Caprolactam	90		93		15-130	3		50
2,3,4,6-Tetrachlorophenol	105		104		40-140	1		50
1,4-Dioxane	53		54		40-140	2		50

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	84		82		25-120
Phenol-d6	84		81		10-120
Nitrobenzene-d5	75		76		23-120
2-Fluorobiphenyl	78		77		30-120
2,4,6-Tribromophenol	81		80		10-136
4-Terphenyl-d14	88		84		18-120

# PETROLEUM HYDROCARBONS

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435417**Project Number:** 170562203**Report Date:** 07/01/24**SAMPLE RESULTS**

Lab ID: L2435417-01 D  
 Client ID: WC15C\_GRAB\_2-4  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 14:55  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 07/01/24 15:24  
 Analyst: ALL  
 Percent Solids: 76%

Extraction Method: EPA 3546  
 Extraction Date: 06/30/24 18:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	96400		mg/kg	2640	2640	30

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-08 D  
 Client ID: WC15F\_GRAB\_9-11  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 15:30  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/30/24 20:44  
 Analyst: CRE  
 Percent Solids: 90%

Extraction Method: EPA 3546  
 Extraction Date: 06/28/24 13:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	14400		mg/kg	528	528.	20

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-15 D  
 Client ID: WC15F\_GRAB\_14-16  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:00  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/30/24 19:44  
 Analyst: CRE  
 Percent Solids: 87%

Extraction Method: EPA 3546  
 Extraction Date: 06/28/24 13:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	7880		mg/kg	262	262.	10

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	195	Q	40-140
o-Terphenyl	152	Q	40-140

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435417**Project Number:** 170562203**Report Date:** 07/01/24**SAMPLE RESULTS**

Lab ID: L2435417-22  
 Client ID: WC15E\_GRAB\_4-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:40  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/30/24 15:17  
 Analyst: ALL  
 Percent Solids: 90%

Extraction Method: EPA 3546  
 Extraction Date: 06/28/24 13:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	670		mg/kg	25.6	25.6	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	8	Q	40-140
o-Terphenyl	9	Q	40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-22 RE  
 Client ID: WC15E\_GRAB\_4-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:40  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 07/01/24 14:11  
 Analyst: ALL  
 Percent Solids: 90%

Extraction Method: EPA 3546  
 Extraction Date: 06/30/24 18:47

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	1370		mg/kg	50.4	50.4	2

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	26	Q	40-140
o-Terphenyl	24	Q	40-140



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-24 D  
 Client ID: WC15E\_GRAB\_6-8  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 17:00  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/30/24 21:44  
 Analyst: CRE  
 Percent Solids: 81%

Extraction Method: EPA 3546  
 Extraction Date: 06/28/24 13:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	39600		mg/kg	1440	1440	50

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	40-140
o-Terphenyl	0	Q	40-140

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435417**Project Number:** 170562203**Report Date:** 07/01/24**SAMPLE RESULTS**

Lab ID: L2435417-26 D  
 Client ID: WC15E\_GRAB\_13-15  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 13:15  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 103,NJDEP EPH  
 Analytical Date: 06/30/24 19:44  
 Analyst: CRE  
 Percent Solids: 86%

Extraction Method: EPA 3546  
 Extraction Date: 06/28/24 13:21

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
<b>NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab</b>						
Total EPH	3700		mg/kg	133	133.	5

Surrogate	% Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	113		40-140
o-Terphenyl	133		40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 103,NJDEP EPH  
Analytical Date: 06/30/24 10:30  
Analyst: SBC

Extraction Method: EPA 3546  
Extraction Date: 06/28/24 13:21

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 08,15,22,24,26 Batch: WG1940898-1					
Total EPH	ND		mg/kg	23.2	23.2

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	71		40-140
o-Terphenyl	74		40-140

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 103,NJDEP EPH  
Analytical Date: 07/01/24 09:27  
Analyst: ALL

Extraction Method: EPA 3546  
Extraction Date: 06/30/24 18:47

Parameter	Result	Qualifier	Units	RL	MDL
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab for sample(s): 01,22 Batch: WG1941486-1					
Total EPH	ND		mg/kg	23.5	23.5

Surrogate	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	96		40-140
o-Terphenyl	97		40-140

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 08,15,22,24,26 Batch: WG1940898-2 WG1940898-3								
Total EPH	90		97		40-140	7		25
Nonane (C9)	80		88		40-140	10		25
Decane (C10)	86		97		40-140	12		25
Dodecane (C12)	84		91		40-140	8		25
Tetradecane (C14)	83		90		40-140	8		25
Hexadecane (C16)	82		88		40-140	7		25
Octadecane (C18)	80		85		40-140	6		25
Eicosane (C20)	80		84		40-140	5		25
Heneicosane (C21)	82		86		40-140	5		25
Docosane (C22)	81		85		40-140	5		25
Tetracosane (C24)	81		85		40-140	5		25
Hexacosane (C26)	80		84		40-140	5		25
Octacosane (C28)	82		86		40-140	5		25
triacontane (C30)	82		86		40-140	5		25
Dotriacontane (C32)	84		88		40-140	5		25
Tetracontane (C34)	84		88		40-140	5		25
Hexatriacontane (C36)	88		92		40-140	4		25
Octatriacontane (C38)	88		93		40-140	6		25
Tetracontane (C40)	95		99		40-140	4		25

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 08,15,22,24,26 Batch: WG1940898-2 WG1940898-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Chloro-Octadecane	73		77		40-140
o-Terphenyl	76		81		40-140

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2435417

**Project Number:** 170562203

**Report Date:** 07/01/24

<b>Parameter</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>LCS %Recovery</b>	<b>Qual</b>	<b>%Recovery Limits</b>	<b>RPD</b>	<b>Qual</b>	<b>RPD Limits</b>
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01,22 Batch: WG1941486-2 WG1941486-3								
Total EPH	108		111		40-140	3		25
Nonane (C9)	95		113		40-140	17		25
Decane (C10)	103		122		40-140	17		25
Dodecane (C12)	103		120		40-140	15		25
Tetradecane (C14)	103		117		40-140	13		25
Hexadecane (C16)	107		116		40-140	8		25
Octadecane (C18)	111		116		40-140	4		25
Eicosane (C20)	106		110		40-140	4		25
Heneicosane (C21)	108		112		40-140	4		25
Docosane (C22)	108		111		40-140	3		25
Tetracosane (C24)	106		110		40-140	4		25
Hexacosane (C26)	104		108		40-140	4		25
Octacosane (C28)	103		107		40-140	4		25
triacontane (C30)	102		106		40-140	4		25
Dotriacontane (C32)	104		107		40-140	3		25
Tetracontane (C34)	102		104		40-140	2		25
Hexatriacontane (C36)	104		106		40-140	2		25
Octatriacontane (C38)	102		104		40-140	2		25
Tetracontane (C40)	104		106		40-140	2		25

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01,22 Batch: WG1941486-2 WG1941486-3								

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria
Chloro-Octadecane	92		95		40-140
o-Terphenyl	91		95		40-140



### Lab Duplicate Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2435417

**Report Date:** 07/01/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 08,15,22,24,26 QC Batch ID: WG1940898-5 QC Sample: L2435417-08 Client ID: WC15F_GRAB_9-11						
Total EPH	14400	14600	mg/kg	1		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	0	Q	40-140
o-Terphenyl	0	Q	0	Q	40-140



### Lab Duplicate Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2435417

**Report Date:** 07/01/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
NJ Extractable Petroleum Hydrocarbons (Total) - Westborough Lab Associated sample(s): 01,22 QC Batch ID: WG1941486-5 QC Sample: L2435417-01 Client ID: WC15C_GRAB_2-4						
Total EPH	96400	78000	mg/kg	21		50

Surrogate	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Chloro-Octadecane	0	Q	0	Q	40-140
o-Terphenyl	0	Q	0	Q	40-140

# PCBS

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

**Lab ID:** L2435417-07  
**Client ID:** WC15\_COMP\_0-6  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 15:10  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/29/24 12:04  
**Analyst:** MEO  
**Percent Solids:** 86%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/28/24 01:17  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/29/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/29/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	54.0	4.80	1	A
Aroclor 1221	ND		ug/kg	54.0	5.42	1	A
Aroclor 1232	ND		ug/kg	54.0	11.5	1	A
Aroclor 1242	ND		ug/kg	54.0	7.29	1	A
Aroclor 1248	ND		ug/kg	54.0	8.11	1	A
Aroclor 1254	ND		ug/kg	54.0	5.91	1	A
Aroclor 1260	ND		ug/kg	54.0	9.99	1	A
Aroclor 1262	ND		ug/kg	54.0	6.86	1	A
Aroclor 1268	ND		ug/kg	54.0	5.60	1	A
PCBs, Total	ND		ug/kg	54.0	4.80	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	42		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	56		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

**Lab ID:** L2435417-14  
**Client ID:** WC15\_COMP\_6-12  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 15:45  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/29/24 12:14  
**Analyst:** MEO  
**Percent Solids:** 73%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/28/24 01:17  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/29/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/29/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	66.8	5.94	1	A
Aroclor 1221	ND		ug/kg	66.8	6.70	1	A
Aroclor 1232	ND		ug/kg	66.8	14.2	1	A
Aroclor 1242	ND		ug/kg	66.8	9.01	1	A
Aroclor 1248	ND		ug/kg	66.8	10.0	1	A
Aroclor 1254	ND		ug/kg	66.8	7.31	1	A
Aroclor 1260	ND		ug/kg	66.8	12.4	1	A
Aroclor 1262	ND		ug/kg	66.8	8.49	1	A
Aroclor 1268	ND		ug/kg	66.8	6.92	1	A
PCBs, Total	ND		ug/kg	66.8	5.94	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	55		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	57		30-150	B
Decachlorobiphenyl	71		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

**Lab ID:** L2435417-21  
**Client ID:** WC15\_COMP\_12-16  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 16:15  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/29/24 12:24  
**Analyst:** MEO  
**Percent Solids:** 88%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/28/24 01:17  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/29/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/29/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	54.3	4.82	1	A
Aroclor 1221	ND		ug/kg	54.3	5.44	1	A
Aroclor 1232	ND		ug/kg	54.3	11.5	1	A
Aroclor 1242	ND		ug/kg	54.3	7.32	1	A
Aroclor 1248	ND		ug/kg	54.3	8.14	1	A
Aroclor 1254	ND		ug/kg	54.3	5.94	1	A
Aroclor 1260	ND		ug/kg	54.3	10.0	1	A
Aroclor 1262	ND		ug/kg	54.3	6.89	1	A
Aroclor 1268	ND		ug/kg	54.3	5.62	1	A
PCBs, Total	ND		ug/kg	54.3	4.82	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	53		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	52		30-150	B
Decachlorobiphenyl	64		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

**Lab ID:** L2435417-23  
**Client ID:** WC21\_COMP\_0-6  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 16:45  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/29/24 13:05  
**Analyst:** MEO  
**Percent Solids:** 91%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/28/24 01:17  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/29/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/29/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	54.7	4.86	1	A
Aroclor 1221	ND		ug/kg	54.7	5.48	1	A
Aroclor 1232	ND		ug/kg	54.7	11.6	1	A
Aroclor 1242	ND		ug/kg	54.7	7.37	1	A
Aroclor 1248	ND		ug/kg	54.7	8.20	1	A
Aroclor 1254	ND		ug/kg	54.7	5.98	1	A
Aroclor 1260	ND		ug/kg	54.7	10.1	1	A
Aroclor 1262	ND		ug/kg	54.7	6.95	1	A
Aroclor 1268	ND		ug/kg	54.7	5.67	1	A
PCBs, Total	ND		ug/kg	54.7	4.86	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	52		30-150	A
Decachlorobiphenyl	49		30-150	A
2,4,5,6-Tetrachloro-m-xylene	58		30-150	B
Decachlorobiphenyl	71		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

**Lab ID:** L2435417-25  
**Client ID:** WC21\_COMP\_6-12  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 17:05  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/30/24 11:54  
**Analyst:** EMR  
**Percent Solids:** 82%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/29/24 13:56  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/30/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/30/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	56.6	5.03	1	A
Aroclor 1221	ND		ug/kg	56.6	5.68	1	A
Aroclor 1232	ND		ug/kg	56.6	12.0	1	A
Aroclor 1242	ND		ug/kg	56.6	7.64	1	A
Aroclor 1248	ND		ug/kg	56.6	8.50	1	A
Aroclor 1254	ND		ug/kg	56.6	6.20	1	A
Aroclor 1260	ND		ug/kg	56.6	10.5	1	A
Aroclor 1262	ND		ug/kg	56.6	7.19	1	A
Aroclor 1268	ND		ug/kg	56.6	5.87	1	A
PCBs, Total	ND		ug/kg	56.6	5.03	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		30-150	A
Decachlorobiphenyl	40		30-150	A
2,4,5,6-Tetrachloro-m-xylene	41		30-150	B
Decachlorobiphenyl	65		30-150	B



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

**Lab ID:** L2435417-27  
**Client ID:** WC21\_COMP\_12-16  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 17:20  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8082A  
**Analytical Date:** 06/29/24 12:55  
**Analyst:** MEO  
**Percent Solids:** 83%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/28/24 01:17  
**Cleanup Method:** EPA 3665A  
**Cleanup Date:** 06/29/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/29/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Polychlorinated Biphenyls by GC - Westborough Lab</b>							
Aroclor 1016	ND		ug/kg	57.3	5.09	1	A
Aroclor 1221	ND		ug/kg	57.3	5.74	1	A
Aroclor 1232	ND		ug/kg	57.3	12.2	1	A
Aroclor 1242	ND		ug/kg	57.3	7.73	1	A
Aroclor 1248	ND		ug/kg	57.3	8.60	1	A
Aroclor 1254	ND		ug/kg	57.3	6.27	1	A
Aroclor 1260	ND		ug/kg	57.3	10.6	1	A
Aroclor 1262	ND		ug/kg	57.3	7.28	1	A
Aroclor 1268	ND		ug/kg	57.3	5.94	1	A
PCBs, Total	ND		ug/kg	57.3	5.09	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	50		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	47		30-150	B
Decachlorobiphenyl	61		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8082A  
Analytical Date: 06/29/24 13:15  
Analyst: MEO

Extraction Method: EPA 3546  
Extraction Date: 06/28/24 01:09  
Cleanup Method: EPA 3665A  
Cleanup Date: 06/29/24  
Cleanup Method: EPA 3660B  
Cleanup Date: 06/29/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 07,14,21,23,27 Batch: WG1940566-1						
Aroclor 1016	ND		ug/kg	46.5	4.13	A
Aroclor 1221	ND		ug/kg	46.5	4.66	A
Aroclor 1232	ND		ug/kg	46.5	9.85	A
Aroclor 1242	ND		ug/kg	46.5	6.26	A
Aroclor 1248	ND		ug/kg	46.5	6.97	A
Aroclor 1254	ND		ug/kg	46.5	5.08	A
Aroclor 1260	ND		ug/kg	46.5	8.59	A
Aroclor 1262	ND		ug/kg	46.5	5.90	A
Aroclor 1268	ND		ug/kg	46.5	4.81	A
PCBs, Total	ND		ug/kg	46.5	4.13	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	57		30-150	A
Decachlorobiphenyl	54		30-150	A
2,4,5,6-Tetrachloro-m-xylene	49		30-150	B
Decachlorobiphenyl	63		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8082A  
Analytical Date: 06/30/24 11:31  
Analyst: EMR

Extraction Method: EPA 3546  
Extraction Date: 06/29/24 13:56  
Cleanup Method: EPA 3665A  
Cleanup Date: 06/30/24  
Cleanup Method: EPA 3660B  
Cleanup Date: 06/30/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 25 Batch: WG1941262-1						
Aroclor 1016	ND		ug/kg	48.1	4.27	A
Aroclor 1221	ND		ug/kg	48.1	4.82	A
Aroclor 1232	ND		ug/kg	48.1	10.2	A
Aroclor 1242	ND		ug/kg	48.1	6.49	A
Aroclor 1248	ND		ug/kg	48.1	7.22	A
Aroclor 1254	ND		ug/kg	48.1	5.26	A
Aroclor 1260	ND		ug/kg	48.1	8.89	A
Aroclor 1262	ND		ug/kg	48.1	6.11	A
Aroclor 1268	ND		ug/kg	48.1	4.98	A
PCBs, Total	ND		ug/kg	48.1	4.27	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	71		30-150	A
2,4,5,6-Tetrachloro-m-xylene	66		30-150	B
Decachlorobiphenyl	74		30-150	B

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 07,14,21,23,27 Batch: WG1940566-2 WG1940566-3									
Aroclor 1016	76		67		40-140	13		50	A
Aroclor 1260	73		64		40-140	13		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		61		30-150	A
Decachlorobiphenyl	78		72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		65		30-150	B
Decachlorobiphenyl	80		73		30-150	B

## Lab Control Sample Analysis

Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2435417

Report Date: 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 25 Batch: WG1941262-2 WG1941262-3									
Aroclor 1016	71		73		40-140	3		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	65		67		30-150	A
Decachlorobiphenyl	77		76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		72		30-150	B
Decachlorobiphenyl	79		78		30-150	B

# PESTICIDES

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

**Lab ID:** L2435417-07  
**Client ID:** WC15\_COMP\_0-6  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 15:10  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 07/01/24 09:07  
**Analyst:** EJL  
**Percent Solids:** 86%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/30/24 10:33  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 07/01/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 07/01/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.80	0.352	1	B
Lindane	ND		ug/kg	0.749	0.335	1	B
Alpha-BHC	ND		ug/kg	0.749	0.213	1	B
Beta-BHC	ND		ug/kg	1.80	0.682	1	B
Heptachlor	ND		ug/kg	0.899	0.403	1	B
Aldrin	ND		ug/kg	1.80	0.633	1	B
Heptachlor epoxide	ND		ug/kg	3.37	1.01	1	B
Endrin	ND		ug/kg	0.749	0.307	1	B
Endrin aldehyde	ND		ug/kg	2.25	0.787	1	B
Endrin ketone	ND		ug/kg	1.80	0.463	1	B
Dieldrin	ND		ug/kg	1.12	0.562	1	B
4,4'-DDE	ND		ug/kg	1.80	0.416	1	B
4,4'-DDD	ND		ug/kg	1.80	0.641	1	B
4,4'-DDT	ND		ug/kg	1.80	1.45	1	B
Endosulfan I	ND		ug/kg	1.80	0.425	1	B
Endosulfan II	ND		ug/kg	1.80	0.601	1	B
Endosulfan sulfate	ND		ug/kg	0.749	0.357	1	B
Methoxychlor	ND		ug/kg	3.37	1.05	1	B
Toxaphene	ND		ug/kg	33.7	9.44	1	B
cis-Chlordane	ND		ug/kg	2.25	0.626	1	B
trans-Chlordane	ND		ug/kg	2.25	0.594	1	B
Chlordane	ND		ug/kg	15.0	5.96	1	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-07  
 Client ID: WC15\_COMP\_0-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 15:10  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	22	Q	30-150	A
Decachlorobiphenyl	33		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	432	Q	30-150	B



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-07  
 Client ID: WC15\_COMP\_0-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 15:10  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/29/24 09:33  
 Analyst: AKM  
 Percent Solids: 86%  
 Methylation Date: 06/28/24 19:28

Extraction Method: EPA 8151A  
 Extraction Date: 06/27/24 14:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	188	11.8	1	A
2,4,5-T	ND		ug/kg	188	5.82	1	A
2,4,5-TP (Silvex)	ND		ug/kg	188	5.00	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	82		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-14  
 Client ID: WC15\_COMP\_6-12  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 15:45  
 Date Received: 06/21/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 06/29/24 11:51  
 Analyst: AKM  
 Percent Solids: 73%

Extraction Method: EPA 3546  
 Extraction Date: 06/28/24 02:21  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 06/29/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/29/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	2.09	0.410	1	A
Lindane	ND		ug/kg	0.872	0.390	1	A
Alpha-BHC	ND		ug/kg	0.872	0.248	1	A
Beta-BHC	ND		ug/kg	2.09	0.793	1	A
Heptachlor	ND		ug/kg	1.05	0.469	1	A
Aldrin	ND		ug/kg	2.09	0.737	1	A
Heptachlor epoxide	ND		ug/kg	3.92	1.18	1	A
Endrin	ND		ug/kg	0.872	0.357	1	A
Endrin aldehyde	ND		ug/kg	2.62	0.915	1	A
Endrin ketone	ND		ug/kg	2.09	0.539	1	A
Dieldrin	ND		ug/kg	1.31	0.654	1	A
4,4'-DDE	ND		ug/kg	2.09	0.484	1	A
4,4'-DDD	ND		ug/kg	2.09	0.746	1	A
4,4'-DDT	ND		ug/kg	2.09	1.68	1	A
Endosulfan I	ND		ug/kg	2.09	0.494	1	A
Endosulfan II	ND		ug/kg	2.09	0.699	1	A
Endosulfan sulfate	ND		ug/kg	0.872	0.415	1	A
Methoxychlor	ND		ug/kg	3.92	1.22	1	A
Toxaphene	ND		ug/kg	39.2	11.0	1	A
cis-Chlordane	ND		ug/kg	2.62	0.729	1	A
trans-Chlordane	ND		ug/kg	2.62	0.690	1	A
Chlordane	ND		ug/kg	17.4	6.93	1	A

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-14  
 Client ID: WC15\_COMP\_6-12  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 15:45  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	48		30-150	A
Decachlorobiphenyl	50		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	247	Q	30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-14  
 Client ID: WC15\_COMP\_6-12  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 15:45  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/29/24 09:52  
 Analyst: AKM  
 Percent Solids: 73%  
 Methylation Date: 06/28/24 19:28

Extraction Method: EPA 8151A  
 Extraction Date: 06/27/24 14:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	222	14.0	1	A
2,4,5-T	ND		ug/kg	222	6.88	1	A
2,4,5-TP (Silvex)	ND		ug/kg	222	5.90	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	57		30-150	A
DCAA	98		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

**Lab ID:** L2435417-21  
**Client ID:** WC15\_COMP\_12-16  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 16:15  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 06/29/24 12:25  
**Analyst:** AKM  
**Percent Solids:** 88%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/28/24 02:21  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 06/29/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/29/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.76	0.346	1	B
Lindane	ND		ug/kg	0.735	0.329	1	B
Alpha-BHC	ND		ug/kg	0.735	0.209	1	B
Beta-BHC	ND		ug/kg	1.76	0.669	1	B
Heptachlor	ND		ug/kg	0.882	0.396	1	B
Aldrin	ND		ug/kg	1.76	0.621	1	B
Heptachlor epoxide	ND		ug/kg	3.31	0.993	1	B
Endrin	ND		ug/kg	0.735	0.301	1	B
Endrin aldehyde	ND		ug/kg	2.20	0.772	1	B
Endrin ketone	ND		ug/kg	1.76	0.454	1	B
Dieldrin	ND		ug/kg	1.10	0.551	1	B
4,4'-DDE	ND		ug/kg	1.76	0.408	1	B
4,4'-DDD	ND		ug/kg	1.76	0.629	1	B
4,4'-DDT	ND		ug/kg	1.76	1.42	1	B
Endosulfan I	ND		ug/kg	1.76	0.417	1	B
Endosulfan II	ND		ug/kg	1.76	0.590	1	B
Endosulfan sulfate	ND		ug/kg	0.735	0.350	1	B
Methoxychlor	ND		ug/kg	3.31	1.03	1	B
Toxaphene	ND		ug/kg	33.1	9.26	1	B
cis-Chlordane	ND		ug/kg	2.20	0.615	1	B
trans-Chlordane	ND		ug/kg	2.20	0.582	1	B
Chlordane	ND		ug/kg	14.7	5.84	1	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-21  
 Client ID: WC15\_COMP\_12-16  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:15  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	27	Q	30-150	A
Decachlorobiphenyl	21	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	119		30-150	B
Decachlorobiphenyl	423	Q	30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-21  
 Client ID: WC15\_COMP\_12-16  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:15  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/29/24 10:10  
 Analyst: AKM  
 Percent Solids: 88%  
 Methylation Date: 06/28/24 19:28

Extraction Method: EPA 8151A  
 Extraction Date: 06/27/24 14:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	189	11.9	1	A
2,4,5-T	ND		ug/kg	189	5.85	1	A
2,4,5-TP (Silvex)	ND		ug/kg	189	5.02	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	91		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-23  
 Client ID: WC21\_COMP\_0-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:45  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8081B  
 Analytical Date: 06/27/24 19:34  
 Analyst: KAB  
 Percent Solids: 91%  
 TCLP/SPLP Ext. Date: 06/24/24 17:23

Extraction Method: EPA 3510C  
 Extraction Date: 06/27/24 01:56

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>TCLP Pesticides by EPA 1311 - Westborough Lab</b>							
Lindane	ND		ug/l	0.100	0.022	1	A
Heptachlor	ND		ug/l	0.100	0.016	1	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	1	A
Endrin	ND		ug/l	0.200	0.021	1	A
Methoxychlor	ND		ug/l	1.00	0.034	1	A
Toxaphene	ND		ug/l	1.00	0.314	1	A
Chlordane	ND		ug/l	1.00	0.232	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	89		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	95		30-150	B
Decachlorobiphenyl	102		30-150	B



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

**Lab ID:** L2435417-23  
**Client ID:** WC21\_COMP\_0-6  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 16:45  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 06/29/24 12:03  
**Analyst:** AKM  
**Percent Solids:** 91%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/28/24 02:21  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 06/29/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/29/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.73	0.339	1	A
Lindane	ND		ug/kg	0.722	0.323	1	A
Alpha-BHC	ND		ug/kg	0.722	0.205	1	A
Beta-BHC	ND		ug/kg	1.73	0.657	1	A
Heptachlor	ND		ug/kg	0.867	0.388	1	A
Aldrin	ND		ug/kg	1.73	0.610	1	A
Heptachlor epoxide	ND		ug/kg	3.25	0.975	1	A
Endrin	ND		ug/kg	0.722	0.296	1	A
Endrin aldehyde	ND		ug/kg	2.17	0.758	1	A
Endrin ketone	ND		ug/kg	1.73	0.446	1	A
Dieldrin	ND		ug/kg	1.08	0.542	1	A
4,4'-DDE	ND		ug/kg	1.73	0.401	1	A
4,4'-DDD	ND		ug/kg	1.73	0.618	1	A
4,4'-DDT	ND		ug/kg	1.73	1.39	1	A
Endosulfan I	ND		ug/kg	1.73	0.409	1	A
Endosulfan II	ND		ug/kg	1.73	0.579	1	A
Endosulfan sulfate	ND		ug/kg	0.722	0.344	1	A
Methoxychlor	ND		ug/kg	3.25	1.01	1	A
Toxaphene	ND		ug/kg	32.5	9.10	1	A
cis-Chlordane	ND		ug/kg	2.17	0.604	1	A
trans-Chlordane	ND		ug/kg	2.17	0.572	1	A
Chlordane	ND		ug/kg	14.4	5.74	1	A

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-23  
 Client ID: WC21\_COMP\_0-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:45  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		30-150	A
Decachlorobiphenyl	413	Q	30-150	A
2,4,5,6-Tetrachloro-m-xylene	68		30-150	B
Decachlorobiphenyl	1470	Q	30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-23  
 Client ID: WC21\_COMP\_0-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:45  
 Date Received: 06/21/24  
 Field Prep: Not Specified

## Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/26/24 22:53  
 Analyst: EMR  
 Percent Solids: 91%  
 TCLP/SPLP Ext. Date: 06/24/24 17:23  
 Methylation Date: 06/26/24 11:45

Extraction Method: EPA 8151A  
 Extraction Date: 06/26/24 04:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
TCLP Herbicides by EPA 1311 - Westborough Lab							
2,4-D	ND		mg/l	0.025	0.001	1	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	37		30-150	A
DCAA	39		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-23  
 Client ID: WC21\_COMP\_0-6  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 16:45  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 07/01/24 10:13  
 Analyst: EJL  
 Percent Solids: 91%  
 Methylation Date: 07/01/24 08:07

Extraction Method: EPA 8151A  
 Extraction Date: 06/30/24 09:58

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	518	32.6	1	A
2,4,5-T	ND		ug/kg	518	16.1	1	A
2,4,5-TP (Silvex)	ND		ug/kg	518	13.8	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	33		30-150	A
DCAA	27	Q	30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

**Lab ID:** L2435417-25  
**Client ID:** WC21\_COMP\_6-12  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 17:05  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 06/29/24 12:14  
**Analyst:** AKM  
**Percent Solids:** 82%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/28/24 02:21  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 06/29/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/29/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.84	0.360	1	A
Lindane	ND		ug/kg	0.767	0.343	1	A
Alpha-BHC	ND		ug/kg	0.767	0.218	1	A
Beta-BHC	ND		ug/kg	1.84	0.698	1	A
Heptachlor	ND		ug/kg	0.920	0.413	1	A
Aldrin	ND		ug/kg	1.84	0.648	1	A
Heptachlor epoxide	ND		ug/kg	3.45	1.04	1	A
Endrin	ND		ug/kg	0.767	0.314	1	A
Endrin aldehyde	ND		ug/kg	2.30	0.805	1	A
Endrin ketone	ND		ug/kg	1.84	0.474	1	A
Dieldrin	ND		ug/kg	1.15	0.575	1	A
4,4'-DDE	ND		ug/kg	1.84	0.426	1	A
4,4'-DDD	ND		ug/kg	1.84	0.656	1	A
4,4'-DDT	ND		ug/kg	1.84	1.48	1	A
Endosulfan I	ND		ug/kg	1.84	0.435	1	A
Endosulfan II	ND		ug/kg	1.84	0.615	1	A
Endosulfan sulfate	ND		ug/kg	0.767	0.365	1	A
Methoxychlor	ND		ug/kg	3.45	1.07	1	A
Toxaphene	ND		ug/kg	34.5	9.66	1	A
cis-Chlordane	ND		ug/kg	2.30	0.641	1	A
trans-Chlordane	ND		ug/kg	2.30	0.607	1	A
Chlordane	ND		ug/kg	15.3	6.10	1	A

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-25  
 Client ID: WC21\_COMP\_6-12  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 17:05  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	40		30-150	A
Decachlorobiphenyl	135		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	<b>1340</b>	Q	30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-25  
 Client ID: WC21\_COMP\_6-12  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 17:05  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/28/24 18:32  
 Analyst: AKM  
 Percent Solids: 82%  
 Methylation Date: 06/28/24 13:14

Extraction Method: EPA 8151A  
 Extraction Date: 06/27/24 14:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	199	12.6	1	A
2,4,5-T	ND		ug/kg	199	6.18	1	A
2,4,5-TP (Silvex)	ND		ug/kg	199	5.30	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	119		30-150	A
DCAA	76		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

**Lab ID:** L2435417-27  
**Client ID:** WC21\_COMP\_12-16  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 17:20  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**

**Matrix:** Soil  
**Analytical Method:** 1,8081B  
**Analytical Date:** 06/30/24 07:53  
**Analyst:** AKM  
**Percent Solids:** 83%

**Extraction Method:** EPA 3546  
**Extraction Date:** 06/28/24 02:21  
**Cleanup Method:** EPA 3620B  
**Cleanup Date:** 06/29/24  
**Cleanup Method:** EPA 3660B  
**Cleanup Date:** 06/29/24

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Organochlorine Pesticides by GC - Westborough Lab</b>							
Delta-BHC	ND		ug/kg	1.90	0.371	1	A
Lindane	ND		ug/kg	0.790	0.353	1	A
Alpha-BHC	ND		ug/kg	0.790	0.224	1	A
Beta-BHC	ND		ug/kg	1.90	0.719	1	A
Heptachlor	ND		ug/kg	0.948	0.425	1	A
Aldrin	ND		ug/kg	1.90	0.667	1	A
Heptachlor epoxide	ND		ug/kg	3.55	1.07	1	A
Endrin	ND		ug/kg	0.790	0.324	1	A
Endrin aldehyde	ND		ug/kg	2.37	0.829	1	A
Endrin ketone	ND		ug/kg	1.90	0.488	1	A
Dieldrin	ND		ug/kg	1.18	0.592	1	A
4,4'-DDE	ND		ug/kg	1.90	0.438	1	A
4,4'-DDD	ND		ug/kg	1.90	0.676	1	A
4,4'-DDT	ND		ug/kg	1.90	1.52	1	A
Endosulfan I	ND		ug/kg	1.90	0.448	1	A
Endosulfan II	ND		ug/kg	1.90	0.633	1	A
Endosulfan sulfate	ND		ug/kg	0.790	0.376	1	A
Methoxychlor	ND		ug/kg	3.55	1.10	1	A
Toxaphene	ND		ug/kg	35.5	9.95	1	A
cis-Chlordane	ND		ug/kg	2.37	0.660	1	A
trans-Chlordane	ND		ug/kg	2.37	0.626	1	A
Chlordane	ND		ug/kg	15.8	6.28	1	A



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435417**Project Number:** 170562203**Report Date:** 07/01/24**SAMPLE RESULTS**

Lab ID: L2435417-27  
 Client ID: WC21\_COMP\_12-16  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 17:20  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	69		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

Lab ID: L2435417-27  
 Client ID: WC21\_COMP\_12-16  
 Sample Location: 145-165 WOLCOTT STREET

Date Collected: 06/21/24 17:20  
 Date Received: 06/21/24  
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil  
 Analytical Method: 1,8151A  
 Analytical Date: 06/29/24 10:47  
 Analyst: AKM  
 Percent Solids: 83%  
 Methylation Date: 06/28/24 19:29

Extraction Method: EPA 8151A  
 Extraction Date: 06/27/24 14:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
<b>Chlorinated Herbicides by GC - Westborough Lab</b>							
2,4-D	ND		ug/kg	198	12.4	1	A
2,4,5-T	ND		ug/kg	198	6.12	1	A
2,4,5-TP (Silvex)	ND		ug/kg	198	5.25	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	54		30-150	A
DCAA	100		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8151A  
Analytical Date: 06/26/24 12:51  
Analyst: MMG  
TCLP/SPLP Extraction Date: 06/24/24 17:23  
Methylation Date: 06/26/24 11:45

Extraction Method: EPA 8151A  
Extraction Date: 06/26/24 04:33

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Herbicides by EPA 1311 - Westborough Lab for sample(s): 23 Batch: WG1939403-1						
2,4-D	ND		mg/l	0.025	0.001	A
2,4,5-TP (Silvex)	ND		mg/l	0.005	0.001	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	40		30-150	A
DCAA	42		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 06/27/24 18:19  
Analyst: KAB  
TCLP/SPLP Extraction Date: 06/24/24 17:23

Extraction Method: EPA 3510C  
Extraction Date: 06/27/24 01:56

Parameter	Result	Qualifier	Units	RL	MDL	Column
TCLP Pesticides by EPA 1311 - Westborough Lab for sample(s): 23 Batch: WG1940001-1						
Lindane	ND		ug/l	0.100	0.022	A
Heptachlor	ND		ug/l	0.100	0.016	A
Heptachlor epoxide	ND		ug/l	0.100	0.021	A
Endrin	ND		ug/l	0.200	0.021	A
Methoxychlor	ND		ug/l	1.00	0.034	A
Toxaphene	ND		ug/l	1.00	0.314	A
Chlordane	ND		ug/l	1.00	0.232	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	104		30-150	A
Decachlorobiphenyl	100		30-150	A
2,4,5,6-Tetrachloro-m-xylene	106		30-150	B
Decachlorobiphenyl	128		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8151A  
Analytical Date: 06/28/24 16:03  
Analyst: JAG

Extraction Method: EPA 8151A  
Extraction Date: 06/27/24 14:43

Methylation Date: 06/28/24 13:14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 07,14,21,25,27 Batch: WG1940392-1						
2,4-D	ND		ug/kg	164	10.3	A
2,4,5-T	ND		ug/kg	164	5.07	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.35	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	93		30-150	A
DCAA	94		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 06/29/24 08:52  
Analyst: AKM

Extraction Method: EPA 3546  
Extraction Date: 06/28/24 02:21  
Cleanup Method: EPA 3620B  
Cleanup Date: 06/29/24  
Cleanup Method: EPA 3660B  
Cleanup Date: 06/29/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 14,21,23,25,27 Batch: WG1940591-1						
Delta-BHC	ND		ug/kg	1.53	0.300	A
Lindane	ND		ug/kg	0.638	0.285	A
Alpha-BHC	ND		ug/kg	0.638	0.181	A
Beta-BHC	ND		ug/kg	1.53	0.581	A
Heptachlor	ND		ug/kg	0.766	0.343	A
Aldrin	ND		ug/kg	1.53	0.539	A
Heptachlor epoxide	ND		ug/kg	2.87	0.862	A
Endrin	ND		ug/kg	0.638	0.262	A
Endrin aldehyde	ND		ug/kg	1.91	0.670	A
Endrin ketone	ND		ug/kg	1.53	0.394	A
Dieldrin	ND		ug/kg	0.957	0.479	A
4,4'-DDE	ND		ug/kg	1.53	0.354	A
4,4'-DDD	ND		ug/kg	1.53	0.546	A
4,4'-DDT	ND		ug/kg	1.53	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.362	A
Endosulfan II	ND		ug/kg	1.53	0.512	A
Endosulfan sulfate	ND		ug/kg	0.638	0.304	A
Methoxychlor	ND		ug/kg	2.87	0.893	A
Toxaphene	ND		ug/kg	28.7	8.04	A
cis-Chlordane	ND		ug/kg	1.91	0.534	A
trans-Chlordane	ND		ug/kg	1.91	0.505	A
Chlordane	ND		ug/kg	12.8	5.07	A

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis  
 Batch Quality Control**

Analytical Method: 1,8081B  
 Analytical Date: 06/29/24 08:52  
 Analyst: AKM

Extraction Method: EPA 3546  
 Extraction Date: 06/28/24 02:21  
 Cleanup Method: EPA 3620B  
 Cleanup Date: 06/29/24  
 Cleanup Method: EPA 3660B  
 Cleanup Date: 06/29/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 14,21,23,25,27 Batch: WG1940591-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	69		30-150	A
2,4,5,6-Tetrachloro-m-xylene	82		30-150	B
Decachlorobiphenyl	83		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis**  
**Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 07/01/24 08:33  
Analyst: EJL

Extraction Method: EPA 3546  
Extraction Date: 06/29/24 14:39  
Cleanup Method: EPA 3620B  
Cleanup Date: 07/01/24  
Cleanup Method: EPA 3660B  
Cleanup Date: 07/01/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 07 Batch: WG1941266-1						
Delta-BHC	ND		ug/kg	1.57	0.308	A
Lindane	ND		ug/kg	0.656	0.293	A
Alpha-BHC	ND		ug/kg	0.656	0.186	A
Beta-BHC	ND		ug/kg	1.57	0.597	A
Heptachlor	ND		ug/kg	0.787	0.353	A
Aldrin	ND		ug/kg	1.57	0.554	A
Heptachlor epoxide	ND		ug/kg	2.95	0.885	A
Endrin	ND		ug/kg	0.656	0.269	A
Endrin aldehyde	ND		ug/kg	1.97	0.688	A
Endrin ketone	ND		ug/kg	1.57	0.405	A
Dieldrin	ND		ug/kg	0.984	0.492	A
4,4'-DDE	ND		ug/kg	1.57	0.364	A
4,4'-DDD	ND		ug/kg	1.57	0.561	A
4,4'-DDT	ND		ug/kg	1.57	1.26	A
Endosulfan I	ND		ug/kg	1.57	0.372	A
Endosulfan II	ND		ug/kg	1.57	0.526	A
Endosulfan sulfate	ND		ug/kg	0.656	0.312	A
Methoxychlor	ND		ug/kg	2.95	0.918	A
Toxaphene	ND		ug/kg	29.5	8.26	A
cis-Chlordane	ND		ug/kg	1.97	0.548	A
trans-Chlordane	ND		ug/kg	1.97	0.519	A
Chlordane	ND		ug/kg	13.1	5.21	A



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8081B  
Analytical Date: 07/01/24 08:33  
Analyst: EJL

Extraction Method: EPA 3546  
Extraction Date: 06/29/24 14:39  
Cleanup Method: EPA 3620B  
Cleanup Date: 07/01/24  
Cleanup Method: EPA 3660B  
Cleanup Date: 07/01/24

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 07 Batch: WG1941266-1						

Surrogate	%Recovery	Qualifier	Acceptance	
			Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	74		30-150	B
Decachlorobiphenyl	75		30-150	B

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis  
Batch Quality Control**

Analytical Method: 1,8151A  
Analytical Date: 07/01/24 09:17  
Analyst: EJL

Extraction Method: EPA 8151A  
Extraction Date: 06/30/24 09:58

Methylation Date: 07/01/24 08:07

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 23 Batch: WG1941403-1						
2,4-D	ND		ug/kg	164	10.3	A
2,4,5-T	ND		ug/kg	164	5.07	A
2,4,5-TP (Silvex)	ND		ug/kg	164	4.35	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	84		30-150	A
DCAA	87		30-150	B

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Herbicides by EPA 1311 - Westborough Lab Associated sample(s): 23 Batch: WG1939403-2 WG1939403-3									
2,4-D	75		83		30-150	10		25	A
2,4,5-TP (Silvex)	34		40		30-150	16		25	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	49		54		30-150	A
DCAA	30		36		30-150	B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2435417

Report Date: 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
TCLP Pesticides by EPA 1311 - Westborough Lab Associated sample(s): 23 Batch: WG1940001-2 WG1940001-3									
Lindane	98		103		30-150	5		20	A
Heptachlor	94		96		30-150	3		20	A
Heptachlor epoxide	100		104		30-150	4		20	A
Endrin	104		109		30-150	5		20	A
Methoxychlor	106		107		30-150	1		20	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	95		96		30-150	A
Decachlorobiphenyl	93		94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	97		98		30-150	B
Decachlorobiphenyl	115		116		30-150	B

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 07,14,21,25,27 Batch: WG1940392-2 WG1940392-3									
2,4-D	85		86		30-150	1		30	A
2,4,5-T	88		90		30-150	2		30	A
2,4,5-TP (Silvex)	83		85		30-150	2		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	94		94		30-150	A
DCAA	107		108		30-150	B



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 14,21,23,25,27 Batch: WG1940591-2 WG1940591-3									
Delta-BHC	78		81		30-150	4		30	A
Lindane	79		82		30-150	4		30	A
Alpha-BHC	84		86		30-150	2		30	A
Beta-BHC	76		79		30-150	4		30	A
Heptachlor	81		83		30-150	2		30	A
Aldrin	76		80		30-150	5		30	A
Heptachlor epoxide	62		64		30-150	3		30	A
Endrin	78		82		30-150	5		30	A
Endrin aldehyde	64		63		30-150	2		30	A
Endrin ketone	78		79		30-150	1		30	A
Dieldrin	82		85		30-150	4		30	A
4,4'-DDE	72		76		30-150	5		30	A
4,4'-DDD	79		81		30-150	3		30	A
4,4'-DDT	81		83		30-150	2		30	A
Endosulfan I	73		75		30-150	3		30	A
Endosulfan II	77		78		30-150	1		30	A
Endosulfan sulfate	67		69		30-150	3		30	A
Methoxychlor	89		92		30-150	3		30	A
cis-Chlordane	69		72		30-150	4		30	A
trans-Chlordane	82		86		30-150	5		30	A

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

Parameter	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>%Recovery</i> Limits	<i>RPD</i>	<i>Qual</i>	<i>RPD</i> Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 14,21,23,25,27 Batch: WG1940591-2 WG1940591-3

<i>Surrogate</i>	<i>LCS</i> %Recovery	<i>Qual</i>	<i>LCSD</i> %Recovery	<i>Qual</i>	<i>Acceptance</i> Criteria	<i>Column</i>
2,4,5,6-Tetrachloro-m-xylene	73		73		30-150	A
Decachlorobiphenyl	71		72		30-150	A
2,4,5,6-Tetrachloro-m-xylene	87		85		30-150	B
Decachlorobiphenyl	87		88		30-150	B

## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07 Batch: WG1941266-2 WG1941266-3									
Delta-BHC	68		71		30-150	4		30	A
Lindane	66		70		30-150	6		30	A
Alpha-BHC	66		71		30-150	7		30	A
Beta-BHC	63		68		30-150	8		30	A
Heptachlor	69		70		30-150	1		30	A
Aldrin	66		71		30-150	7		30	A
Heptachlor epoxide	58		62		30-150	7		30	A
Endrin	71		74		30-150	4		30	A
Endrin aldehyde	59		61		30-150	3		30	A
Endrin ketone	70		73		30-150	4		30	A
Dieldrin	74		77		30-150	4		30	A
4,4'-DDE	67		70		30-150	4		30	A
4,4'-DDD	73		76		30-150	4		30	A
4,4'-DDT	75		77		30-150	3		30	A
Endosulfan I	66		69		30-150	4		30	A
Endosulfan II	70		73		30-150	4		30	A
Endosulfan sulfate	63		67		30-150	6		30	A
Methoxychlor	83		86		30-150	4		30	A
cis-Chlordane	64		66		30-150	3		30	A
trans-Chlordane	73		77		30-150	5		30	A



### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
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Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 07 Batch: WG1941266-2 WG1941266-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	60		64		30-150	A
Decachlorobiphenyl	65		64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		73		30-150	B
Decachlorobiphenyl	77		74		30-150	B

### Lab Control Sample Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 23 Batch: WG1941403-2 WG1941403-3									
2,4-D	75		73		30-150	3		30	A
2,4,5-T	79		78		30-150	1		30	A
2,4,5-TP (Silvex)	74		72		30-150	3		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	89		83		30-150	A
DCAA	99		93		30-150	B



## METALS

**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435417**Project Number:** 170562203**Report Date:** 07/01/24**SAMPLE RESULTS**

Lab ID: L2435417-07

Date Collected: 06/21/24 15:10

Client ID: WC15\_COMP\_0-6

Date Received: 06/21/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/24/24 17:23

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	0.0325	J	mg/l	1.00	0.0190	1	06/26/24 22:16	06/27/24 21:55	EPA 3015	1,6010D	JTS
Barium, TCLP	0.350	J	mg/l	0.500	0.0210	1	06/26/24 22:16	06/27/24 21:55	EPA 3015	1,6010D	JTS
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/24 22:16	06/27/24 21:55	EPA 3015	1,6010D	JTS
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/24 22:16	06/27/24 21:55	EPA 3015	1,6010D	JTS
Lead, TCLP	0.431	J	mg/l	0.500	0.0270	1	06/26/24 22:16	06/27/24 21:55	EPA 3015	1,6010D	JTS
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/24 16:00	06/27/24 10:43	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/24 22:16	06/27/24 21:55	EPA 3015	1,6010D	JTS
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/24 22:16	06/27/24 21:55	EPA 3015	1,6010D	JTS





**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435417**Project Number:** 170562203**Report Date:** 07/01/24**SAMPLE RESULTS**

Lab ID: L2435417-14

Date Collected: 06/21/24 15:45

Client ID: WC15\_COMP\_6-12

Date Received: 06/21/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/24/24 17:23

Matrix: Soil

Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/26/24 22:16	06/27/24 21:59	EPA 3015	1,6010D	JTS
Barium, TCLP	0.363	J	mg/l	0.500	0.0210	1	06/26/24 22:16	06/27/24 21:59	EPA 3015	1,6010D	JTS
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/24 22:16	06/27/24 21:59	EPA 3015	1,6010D	JTS
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/24 22:16	06/27/24 21:59	EPA 3015	1,6010D	JTS
Lead, TCLP	ND		mg/l	0.500	0.0270	1	06/26/24 22:16	06/27/24 21:59	EPA 3015	1,6010D	JTS
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/24 16:00	06/27/24 10:46	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/24 22:16	06/27/24 21:59	EPA 3015	1,6010D	JTS
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/24 22:16	06/27/24 21:59	EPA 3015	1,6010D	JTS





**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435417**Project Number:** 170562203**Report Date:** 07/01/24**SAMPLE RESULTS**

Lab ID: L2435417-21

Date Collected: 06/21/24 16:15

Client ID: WC15\_COMP\_12-16

Date Received: 06/21/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/24/24 17:23

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/26/24 22:16	06/27/24 22:03	EPA 3015	1,6010D	JTS
Barium, TCLP	0.325	J	mg/l	0.500	0.0210	1	06/26/24 22:16	06/27/24 22:03	EPA 3015	1,6010D	JTS
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/24 22:16	06/27/24 22:03	EPA 3015	1,6010D	JTS
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/24 22:16	06/27/24 22:03	EPA 3015	1,6010D	JTS
Lead, TCLP	ND		mg/l	0.500	0.0270	1	06/26/24 22:16	06/27/24 22:03	EPA 3015	1,6010D	JTS
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/24 16:00	06/27/24 10:49	EPA 7470A	1,7470A	MJR
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/24 22:16	06/27/24 22:03	EPA 3015	1,6010D	JTS
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/24 22:16	06/27/24 22:03	EPA 3015	1,6010D	JTS





Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

## SAMPLE RESULTS

Lab ID: L2435417-21

Date Collected: 06/21/24 16:15

Client ID: WC15\_COMP\_12-16

Date Received: 06/21/24

Sample Location: 145-165 WOLCOTT STREET

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
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	3670		mg/kg	9.00	2.43	2	06/27/24 01:08	06/28/24 11:24	EPA 3050B	1,6010D	DMC
Antimony, Total	ND		mg/kg	4.50	0.342	2	06/27/24 01:08	06/28/24 11:24	EPA 3050B	1,6010D	DMC
Arsenic, Total	1.44		mg/kg	0.900	0.187	2	06/27/24 01:08	06/28/24 11:24	EPA 3050B	1,6010D	DMC
Barium, Total	21.6		mg/kg	0.900	0.157	2	06/27/24 01:08	06/28/24 11:24	EPA 3050B	1,6010D	DMC
Beryllium, Total	0.170	J	mg/kg	0.450	0.030	2	06/27/24 01:08	06/28/24 11:24	EPA 3050B	1,6010D	DMC
Cadmium, Total	ND		mg/kg	0.900	0.088	2	06/27/24 01:08	06/28/24 11:24	EPA 3050B	1,6010D	DMC
Calcium, Total	1630		mg/kg	9.00	3.15	2	06/27/24 01:08	06/28/24 11:24	EPA 3050B	1,6010D	DMC
Chromium, Total	11.2		mg/kg	0.900	0.086	2	06/27/24 01:08	06/28/24 11:24	EPA 3050B	1,6010D	DMC
Cobalt, Total	2.74		mg/kg	1.80	0.149	2	06/27/24 01:08	06/28/24 11:24	EPA 3050B	1,6010D	DMC
Copper, Total	12.7		mg/kg	0.900	0.232	2	06/27/24 01:08	06/28/24 11:24	EPA 3050B	1,6010D	DMC
Iron, Total	7080		mg/kg	4.50	0.813	2	06/27/24 01:08	06/28/24 11:24	EPA 3050B	1,6010D	DMC
Lead, Total	4.04	J	mg/kg	4.50	0.241	2	06/27/24 01:08	06/28/24 11:24	EPA 3050B	1,6010D	DMC
Magnesium, Total	1660		mg/kg	9.00	1.39	2	06/27/24 01:08	06/28/24 11:24	EPA 3050B	1,6010D	DMC
Manganese, Total	84.6		mg/kg	0.900	0.143	2	06/27/24 01:08	06/28/24 11:24	EPA 3050B	1,6010D	DMC
Mercury, Total	ND		mg/kg	0.089	0.058	1	06/27/24 01:35	06/28/24 13:00	EPA 7471B	1,7471B	JWN
Nickel, Total	15.4		mg/kg	2.25	0.218	2	06/27/24 01:08	06/28/24 11:24	EPA 3050B	1,6010D	DMC
Potassium, Total	451		mg/kg	225	13.0	2	06/27/24 01:08	06/28/24 11:24	EPA 3050B	1,6010D	DMC
Selenium, Total	ND		mg/kg	1.80	0.232	2	06/27/24 01:08	06/28/24 11:24	EPA 3050B	1,6010D	DMC
Silver, Total	ND		mg/kg	0.450	0.255	2	06/27/24 01:08	06/28/24 11:24	EPA 3050B	1,6010D	DMC
Sodium, Total	58.2	J	mg/kg	180	2.84	2	06/27/24 01:08	06/28/24 11:24	EPA 3050B	1,6010D	DMC
Thallium, Total	ND		mg/kg	1.80	0.284	2	06/27/24 01:08	06/28/24 11:24	EPA 3050B	1,6010D	DMC
Vanadium, Total	14.6		mg/kg	0.900	0.183	2	06/27/24 01:08	06/28/24 11:24	EPA 3050B	1,6010D	DMC
Zinc, Total	18.5		mg/kg	4.50	0.264	2	06/27/24 01:08	06/28/24 11:24	EPA 3050B	1,6010D	DMC
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	11.2		mg/kg	0.911	0.182	1		06/28/24 11:30	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435417**Project Number:** 170562203**Report Date:** 07/01/24**SAMPLE RESULTS**

Lab ID: L2435417-23

Date Collected: 06/21/24 16:45

Client ID: WC21\_COMP\_0-6

Date Received: 06/21/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/24/24 17:23

Matrix: Soil

Percent Solids: 91%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/26/24 22:16	06/27/24 22:07	EPA 3015	1,6010D	JTS
Barium, TCLP	0.157	J	mg/l	0.500	0.0210	1	06/26/24 22:16	06/27/24 22:07	EPA 3015	1,6010D	JTS
Beryllium, TCLP	ND		mg/l	0.100	0.0090	1	06/26/24 22:16	06/27/24 22:07	EPA 3015	1,6010D	JTS
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/24 22:16	06/27/24 22:07	EPA 3015	1,6010D	JTS
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/24 22:16	06/27/24 22:07	EPA 3015	1,6010D	JTS
Copper, TCLP	0.0490	J	mg/l	0.200	0.0220	1	06/26/24 22:16	06/27/24 22:07	EPA 3015	1,6010D	JTS
Lead, TCLP	0.612		mg/l	0.500	0.0270	1	06/26/24 22:16	06/27/24 22:07	EPA 3015	1,6010D	JTS
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/24 16:00	06/27/24 10:53	EPA 7470A	1,7470A	MJR
Nickel, TCLP	0.114	J	mg/l	0.500	0.0240	1	06/26/24 22:16	06/27/24 22:07	EPA 3015	1,6010D	JTS
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/24 22:16	06/27/24 22:07	EPA 3015	1,6010D	JTS
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/24 22:16	06/27/24 22:07	EPA 3015	1,6010D	JTS
Zinc, TCLP	0.793		mg/l	0.500	0.0210	1	06/26/24 22:16	06/27/24 22:07	EPA 3015	1,6010D	JTS



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

## SAMPLE RESULTS

Lab ID: L2435417-23

Date Collected: 06/21/24 16:45

Client ID: WC21\_COMP\_0-6

Date Received: 06/21/24

Sample Location: 145-165 WOLCOTT STREET

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
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	2920		mg/kg	17.5	4.73	4	06/27/24 01:08	06/28/24 11:51	EPA 3050B	1,6010D	DMC
Antimony, Total	16.2		mg/kg	8.76	0.666	4	06/27/24 01:08	06/28/24 11:51	EPA 3050B	1,6010D	DMC
Arsenic, Total	21.0		mg/kg	1.75	0.364	4	06/27/24 01:08	06/28/24 11:51	EPA 3050B	1,6010D	DMC
Barium, Total	56.5		mg/kg	1.75	0.305	4	06/27/24 01:08	06/28/24 11:51	EPA 3050B	1,6010D	DMC
Beryllium, Total	0.201	J	mg/kg	0.876	0.058	4	06/27/24 01:08	06/28/24 11:51	EPA 3050B	1,6010D	DMC
Cadmium, Total	0.272	J	mg/kg	1.75	0.172	4	06/27/24 01:08	06/28/24 11:51	EPA 3050B	1,6010D	DMC
Calcium, Total	9680		mg/kg	17.5	6.13	4	06/27/24 01:08	06/28/24 11:51	EPA 3050B	1,6010D	DMC
Chromium, Total	27.7		mg/kg	1.75	0.168	4	06/27/24 01:08	06/28/24 11:51	EPA 3050B	1,6010D	DMC
Cobalt, Total	6.58		mg/kg	3.50	0.291	4	06/27/24 01:08	06/28/24 11:51	EPA 3050B	1,6010D	DMC
Copper, Total	2040		mg/kg	1.75	0.452	4	06/27/24 01:08	06/28/24 11:51	EPA 3050B	1,6010D	DMC
Iron, Total	49000		mg/kg	8.76	1.58	4	06/27/24 01:08	06/28/24 11:51	EPA 3050B	1,6010D	DMC
Lead, Total	379		mg/kg	8.76	0.470	4	06/27/24 01:08	06/28/24 11:51	EPA 3050B	1,6010D	DMC
Magnesium, Total	1470		mg/kg	17.5	2.70	4	06/27/24 01:08	06/28/24 11:51	EPA 3050B	1,6010D	DMC
Manganese, Total	299		mg/kg	1.75	0.279	4	06/27/24 01:08	06/28/24 11:51	EPA 3050B	1,6010D	DMC
Mercury, Total	0.661		mg/kg	0.084	0.055	1	06/27/24 01:35	06/28/24 13:03	EPA 7471B	1,7471B	JWN
Nickel, Total	25.9		mg/kg	4.38	0.424	4	06/27/24 01:08	06/28/24 11:51	EPA 3050B	1,6010D	DMC
Potassium, Total	405	J	mg/kg	438	25.2	4	06/27/24 01:08	06/28/24 11:51	EPA 3050B	1,6010D	DMC
Selenium, Total	1.05	J	mg/kg	3.50	0.452	4	06/27/24 01:08	06/28/24 11:51	EPA 3050B	1,6010D	DMC
Silver, Total	ND		mg/kg	0.876	0.496	4	06/27/24 01:08	06/28/24 11:51	EPA 3050B	1,6010D	DMC
Sodium, Total	216	J	mg/kg	350	5.52	4	06/27/24 01:08	06/28/24 11:51	EPA 3050B	1,6010D	DMC
Thallium, Total	ND		mg/kg	3.50	0.552	4	06/27/24 01:08	06/28/24 11:51	EPA 3050B	1,6010D	DMC
Vanadium, Total	20.1		mg/kg	1.75	0.356	4	06/27/24 01:08	06/28/24 11:51	EPA 3050B	1,6010D	DMC
Zinc, Total	189		mg/kg	8.76	0.513	4	06/27/24 01:08	06/28/24 11:51	EPA 3050B	1,6010D	DMC
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	27.7		mg/kg	1.75	0.177	1		06/28/24 11:51	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435417**Project Number:** 170562203**Report Date:** 07/01/24**SAMPLE RESULTS**

Lab ID: L2435417-25

Date Collected: 06/21/24 17:05

Client ID: WC21\_COMP\_6-12

Date Received: 06/21/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/24/24 17:23

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	ND		mg/l	1.00	0.0190	1	06/26/24 22:16	06/27/24 22:11	EPA 3015	1,6010D	JTS
Barium, TCLP	0.126	J	mg/l	0.500	0.0210	1	06/26/24 22:16	06/27/24 22:11	EPA 3015	1,6010D	JTS
Beryllium, TCLP	ND		mg/l	0.100	0.0090	1	06/26/24 22:16	06/27/24 22:11	EPA 3015	1,6010D	JTS
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/24 22:16	06/27/24 22:11	EPA 3015	1,6010D	JTS
Chromium, TCLP	0.0617	J	mg/l	0.200	0.0210	1	06/26/24 22:16	06/27/24 22:11	EPA 3015	1,6010D	JTS
Copper, TCLP	0.102	J	mg/l	0.200	0.0220	1	06/26/24 22:16	06/27/24 22:11	EPA 3015	1,6010D	JTS
Lead, TCLP	0.608		mg/l	0.500	0.0270	1	06/26/24 22:16	06/27/24 22:11	EPA 3015	1,6010D	JTS
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/24 16:00	06/27/24 10:56	EPA 7470A	1,7470A	MJR
Nickel, TCLP	0.0518	J	mg/l	0.500	0.0240	1	06/26/24 22:16	06/27/24 22:11	EPA 3015	1,6010D	JTS
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/24 22:16	06/27/24 22:11	EPA 3015	1,6010D	JTS
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/24 22:16	06/27/24 22:11	EPA 3015	1,6010D	JTS
Zinc, TCLP	0.190	J	mg/l	0.500	0.0210	1	06/26/24 22:16	06/27/24 22:11	EPA 3015	1,6010D	JTS



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

## SAMPLE RESULTS

Lab ID: L2435417-25

Date Collected: 06/21/24 17:05

Client ID: WC21\_COMP\_6-12

Date Received: 06/21/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 82%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	791		mg/kg	9.46	2.55	2	06/27/24 01:08	06/28/24 11:32	EPA 3050B	1,6010D	DMC
Antimony, Total	2.22	J	mg/kg	4.73	0.359	2	06/27/24 01:08	06/28/24 11:32	EPA 3050B	1,6010D	DMC
Arsenic, Total	4.68		mg/kg	0.946	0.197	2	06/27/24 01:08	06/28/24 11:32	EPA 3050B	1,6010D	DMC
Barium, Total	28.0		mg/kg	0.946	0.164	2	06/27/24 01:08	06/28/24 11:32	EPA 3050B	1,6010D	DMC
Beryllium, Total	ND		mg/kg	0.473	0.031	2	06/27/24 01:08	06/28/24 11:32	EPA 3050B	1,6010D	DMC
Cadmium, Total	ND		mg/kg	0.946	0.093	2	06/27/24 01:08	06/28/24 11:32	EPA 3050B	1,6010D	DMC
Calcium, Total	1260		mg/kg	9.46	3.31	2	06/27/24 01:08	06/28/24 11:32	EPA 3050B	1,6010D	DMC
Chromium, Total	9.64		mg/kg	0.946	0.091	2	06/27/24 01:08	06/28/24 11:32	EPA 3050B	1,6010D	DMC
Cobalt, Total	1.13	J	mg/kg	1.89	0.157	2	06/27/24 01:08	06/28/24 11:32	EPA 3050B	1,6010D	DMC
Copper, Total	90.8		mg/kg	0.946	0.244	2	06/27/24 01:08	06/28/24 11:32	EPA 3050B	1,6010D	DMC
Iron, Total	10100		mg/kg	4.73	0.854	2	06/27/24 01:08	06/28/24 11:32	EPA 3050B	1,6010D	DMC
Lead, Total	51.5		mg/kg	4.73	0.253	2	06/27/24 01:08	06/28/24 11:32	EPA 3050B	1,6010D	DMC
Magnesium, Total	330		mg/kg	9.46	1.46	2	06/27/24 01:08	06/28/24 11:32	EPA 3050B	1,6010D	DMC
Manganese, Total	65.8		mg/kg	0.946	0.150	2	06/27/24 01:08	06/28/24 11:32	EPA 3050B	1,6010D	DMC
Mercury, Total	ND		mg/kg	0.093	0.061	1	06/27/24 01:35	06/28/24 13:06	EPA 7471B	1,7471B	JWN
Nickel, Total	4.60		mg/kg	2.36	0.229	2	06/27/24 01:08	06/28/24 11:32	EPA 3050B	1,6010D	DMC
Potassium, Total	168	J	mg/kg	236	13.6	2	06/27/24 01:08	06/28/24 11:32	EPA 3050B	1,6010D	DMC
Selenium, Total	0.899	J	mg/kg	1.89	0.244	2	06/27/24 01:08	06/28/24 11:32	EPA 3050B	1,6010D	DMC
Silver, Total	ND		mg/kg	0.473	0.268	2	06/27/24 01:08	06/28/24 11:32	EPA 3050B	1,6010D	DMC
Sodium, Total	125	J	mg/kg	189	2.98	2	06/27/24 01:08	06/28/24 11:32	EPA 3050B	1,6010D	DMC
Thallium, Total	ND		mg/kg	1.89	0.298	2	06/27/24 01:08	06/28/24 11:32	EPA 3050B	1,6010D	DMC
Vanadium, Total	4.17		mg/kg	0.946	0.192	2	06/27/24 01:08	06/28/24 11:32	EPA 3050B	1,6010D	DMC
Zinc, Total	17.9		mg/kg	4.73	0.277	2	06/27/24 01:08	06/28/24 11:32	EPA 3050B	1,6010D	DMC
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	9.64		mg/kg	0.974	0.195	1		06/28/24 11:32	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435417**Project Number:** 170562203**Report Date:** 07/01/24**SAMPLE RESULTS**

Lab ID: L2435417-27

Date Collected: 06/21/24 17:20

Client ID: WC21\_COMP\_12-16

Date Received: 06/21/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

TCLP/SPLP Ext. Date: 06/24/24 17:23

Matrix: Soil

Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
<b>TCLP Metals by EPA 1311 - Mansfield Lab</b>											
Arsenic, TCLP	0.0322	J	mg/l	1.00	0.0190	1	06/26/24 22:16	06/27/24 22:15	EPA 3015	1,6010D	JTS
Barium, TCLP	0.204	J	mg/l	0.500	0.0210	1	06/26/24 22:16	06/27/24 22:15	EPA 3015	1,6010D	JTS
Beryllium, TCLP	ND		mg/l	0.100	0.0090	1	06/26/24 22:16	06/27/24 22:15	EPA 3015	1,6010D	JTS
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/24 22:16	06/27/24 22:15	EPA 3015	1,6010D	JTS
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/24 22:16	06/27/24 22:15	EPA 3015	1,6010D	JTS
Copper, TCLP	ND		mg/l	0.200	0.0220	1	06/26/24 22:16	06/27/24 22:15	EPA 3015	1,6010D	JTS
Lead, TCLP	ND		mg/l	0.500	0.0270	1	06/26/24 22:16	06/27/24 22:15	EPA 3015	1,6010D	JTS
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/24 16:00	06/27/24 11:08	EPA 7470A	1,7470A	MJR
Nickel, TCLP	0.0619	J	mg/l	0.500	0.0240	1	06/26/24 22:16	06/27/24 22:15	EPA 3015	1,6010D	JTS
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/24 22:16	06/27/24 22:15	EPA 3015	1,6010D	JTS
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/24 22:16	06/27/24 22:15	EPA 3015	1,6010D	JTS
Zinc, TCLP	0.0460	J	mg/l	0.500	0.0210	1	06/26/24 22:16	06/27/24 22:15	EPA 3015	1,6010D	JTS



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

## SAMPLE RESULTS

Lab ID: L2435417-27

Date Collected: 06/21/24 17:20

Client ID: WC21\_COMP\_12-16

Date Received: 06/21/24

Sample Location: 145-165 WOLCOTT STREET

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
<b>Total Metals - Mansfield Lab</b>											
Aluminum, Total	2470		mg/kg	9.49	2.56	2	06/27/24 01:08	06/28/24 11:36	EPA 3050B	1,6010D	DMC
Antimony, Total	ND		mg/kg	4.74	0.361	2	06/27/24 01:08	06/28/24 11:36	EPA 3050B	1,6010D	DMC
Arsenic, Total	9.79		mg/kg	0.949	0.197	2	06/27/24 01:08	06/28/24 11:36	EPA 3050B	1,6010D	DMC
Barium, Total	29.5		mg/kg	0.949	0.165	2	06/27/24 01:08	06/28/24 11:36	EPA 3050B	1,6010D	DMC
Beryllium, Total	0.065	J	mg/kg	0.474	0.031	2	06/27/24 01:08	06/28/24 11:36	EPA 3050B	1,6010D	DMC
Cadmium, Total	ND		mg/kg	0.949	0.093	2	06/27/24 01:08	06/28/24 11:36	EPA 3050B	1,6010D	DMC
Calcium, Total	996		mg/kg	9.49	3.32	2	06/27/24 01:08	06/28/24 11:36	EPA 3050B	1,6010D	DMC
Chromium, Total	10.5		mg/kg	0.949	0.091	2	06/27/24 01:08	06/28/24 11:36	EPA 3050B	1,6010D	DMC
Cobalt, Total	3.56		mg/kg	1.90	0.158	2	06/27/24 01:08	06/28/24 11:36	EPA 3050B	1,6010D	DMC
Copper, Total	34.1		mg/kg	0.949	0.245	2	06/27/24 01:08	06/28/24 11:36	EPA 3050B	1,6010D	DMC
Iron, Total	6240		mg/kg	4.74	0.857	2	06/27/24 01:08	06/28/24 11:36	EPA 3050B	1,6010D	DMC
Lead, Total	6.76		mg/kg	4.74	0.254	2	06/27/24 01:08	06/28/24 11:36	EPA 3050B	1,6010D	DMC
Magnesium, Total	989		mg/kg	9.49	1.46	2	06/27/24 01:08	06/28/24 11:36	EPA 3050B	1,6010D	DMC
Manganese, Total	27.4		mg/kg	0.949	0.151	2	06/27/24 01:08	06/28/24 11:36	EPA 3050B	1,6010D	DMC
Mercury, Total	ND		mg/kg	0.085	0.055	1	06/27/24 01:35	06/28/24 13:09	EPA 7471B	1,7471B	JWN
Nickel, Total	13.3		mg/kg	2.37	0.230	2	06/27/24 01:08	06/28/24 11:36	EPA 3050B	1,6010D	DMC
Potassium, Total	431		mg/kg	237	13.7	2	06/27/24 01:08	06/28/24 11:36	EPA 3050B	1,6010D	DMC
Selenium, Total	ND		mg/kg	1.90	0.245	2	06/27/24 01:08	06/28/24 11:36	EPA 3050B	1,6010D	DMC
Silver, Total	ND		mg/kg	0.474	0.268	2	06/27/24 01:08	06/28/24 11:36	EPA 3050B	1,6010D	DMC
Sodium, Total	59.2	J	mg/kg	190	2.99	2	06/27/24 01:08	06/28/24 11:36	EPA 3050B	1,6010D	DMC
Thallium, Total	ND		mg/kg	1.90	0.299	2	06/27/24 01:08	06/28/24 11:36	EPA 3050B	1,6010D	DMC
Vanadium, Total	10.5		mg/kg	0.949	0.193	2	06/27/24 01:08	06/28/24 11:36	EPA 3050B	1,6010D	DMC
Zinc, Total	16.1		mg/kg	4.74	0.278	2	06/27/24 01:08	06/28/24 11:36	EPA 3050B	1,6010D	DMC
<b>General Chemistry - Mansfield Lab</b>											
Chromium, Trivalent	10.5		mg/kg	0.960	0.192	1		06/28/24 11:36	NA	107,-	



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

## Method Blank Analysis Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 07,14,21,23,25,27 Batch: WG1939605-1										
Arsenic, TCLP	0.0302	J	mg/l	1.00	0.0190	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC
Barium, TCLP	ND		mg/l	0.500	0.0210	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC
Beryllium, TCLP	ND		mg/l	0.100	0.0090	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC
Cadmium, TCLP	ND		mg/l	0.100	0.0100	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC
Chromium, TCLP	ND		mg/l	0.200	0.0210	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC
Copper, TCLP	ND		mg/l	0.200	0.0220	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC
Lead, TCLP	ND		mg/l	0.500	0.0270	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC
Nickel, TCLP	ND		mg/l	0.500	0.0240	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC
Selenium, TCLP	ND		mg/l	0.500	0.0350	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC
Silver, TCLP	ND		mg/l	0.100	0.0280	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC
Zinc, TCLP	ND		mg/l	0.500	0.0210	1	06/26/24 22:16	06/27/24 08:32	1,6010D	DMC

### Prep Information

Digestion Method: EPA 3015  
TCLP/SPLP Extraction Date: 06/23/24 23:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
TCLP Metals by EPA 1311 - Mansfield Lab for sample(s): 07,14,21,23,25,27 Batch: WG1939608-1										
Mercury, TCLP	ND		mg/l	0.0010	0.0005	1	06/26/24 16:00	06/27/24 09:46	1,7470A	MJR

### Prep Information

Digestion Method: EPA 7470A  
TCLP/SPLP Extraction Date: 06/23/24 23:19

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 07,14,21,23,25,27 Batch: WG1939942-1										
Aluminum, Total	ND		mg/kg	4.00	1.08	1	06/27/24 01:08	06/28/24 09:29	1,6010D	DMC
Antimony, Total	ND		mg/kg	2.00	0.152	1	06/27/24 01:08	06/28/24 09:29	1,6010D	DMC
Arsenic, Total	ND		mg/kg	0.400	0.083	1	06/27/24 01:08	06/28/24 09:29	1,6010D	DMC
Barium, Total	ND		mg/kg	0.400	0.070	1	06/27/24 01:08	06/28/24 09:29	1,6010D	DMC
Beryllium, Total	ND		mg/kg	0.200	0.013	1	06/27/24 01:08	06/28/24 09:29	1,6010D	DMC





**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

### Method Blank Analysis Batch Quality Control

Cadmium, Total	ND		mg/kg	0.400	0.039	1	06/27/24 01:08	06/28/24 09:29	1,6010D	DMC
Calcium, Total	ND		mg/kg	4.00	1.40	1	06/27/24 01:08	06/28/24 09:29	1,6010D	DMC
Chromium, Total	ND		mg/kg	0.400	0.038	1	06/27/24 01:08	06/28/24 09:29	1,6010D	DMC
Cobalt, Total	ND		mg/kg	0.800	0.066	1	06/27/24 01:08	06/28/24 09:29	1,6010D	DMC
Copper, Total	ND		mg/kg	0.400	0.103	1	06/27/24 01:08	06/28/24 09:29	1,6010D	DMC
Iron, Total	1.07	J	mg/kg	2.00	0.361	1	06/27/24 01:08	06/28/24 09:29	1,6010D	DMC
Lead, Total	ND		mg/kg	2.00	0.107	1	06/27/24 01:08	06/28/24 09:29	1,6010D	DMC
Magnesium, Total	ND		mg/kg	4.00	0.616	1	06/27/24 01:08	06/28/24 09:29	1,6010D	DMC
Manganese, Total	ND		mg/kg	0.400	0.064	1	06/27/24 01:08	06/28/24 09:29	1,6010D	DMC
Nickel, Total	ND		mg/kg	1.00	0.097	1	06/27/24 01:08	06/28/24 09:29	1,6010D	DMC
Potassium, Total	ND		mg/kg	100	5.76	1	06/27/24 01:08	06/28/24 09:29	1,6010D	DMC
Selenium, Total	ND		mg/kg	0.800	0.103	1	06/27/24 01:08	06/28/24 09:29	1,6010D	DMC
Silver, Total	ND		mg/kg	0.200	0.113	1	06/27/24 01:08	06/28/24 09:29	1,6010D	DMC
Sodium, Total	ND		mg/kg	80.0	1.26	1	06/27/24 01:08	06/28/24 09:29	1,6010D	DMC
Thallium, Total	ND		mg/kg	0.800	0.126	1	06/27/24 01:08	06/28/24 09:29	1,6010D	DMC
Vanadium, Total	ND		mg/kg	0.400	0.081	1	06/27/24 01:08	06/28/24 09:29	1,6010D	DMC
Zinc, Total	ND		mg/kg	2.00	0.117	1	06/27/24 01:08	06/28/24 09:29	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): 07,14,21,23,25,27 Batch: WG1939944-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	06/27/24 01:35	06/28/24 10:29	1,7471B	JWN

#### Prep Information

Digestion Method: EPA 7471B



## Lab Control Sample Analysis

### Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2435417

Report Date: 07/01/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07,14,21,23,25,27 Batch: WG1939605-2								
Arsenic, TCLP	98		-		75-125	-		20
Barium, TCLP	102		-		75-125	-		20
Beryllium, TCLP	110		-		75-125	-		20
Cadmium, TCLP	100		-		75-125	-		20
Chromium, TCLP	98		-		75-125	-		20
Copper, TCLP	95		-		75-125	-		20
Lead, TCLP	104		-		75-125	-		20
Nickel, TCLP	100		-		75-125	-		20
Selenium, TCLP	96		-		75-125	-		20
Silver, TCLP	96		-		75-125	-		20
Zinc, TCLP	101		-		75-125	-		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07,14,21,23,25,27 Batch: WG1939608-2								
Mercury, TCLP	90		-		80-120	-		

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2435417

**Project Number:** 170562203

**Report Date:** 07/01/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 07,14,21,23,25,27 Batch: WG1939942-2					
Aluminum, Total	105	-	80-120	-	
Antimony, Total	104	-	80-120	-	
Arsenic, Total	95	-	80-120	-	
Barium, Total	102	-	80-120	-	
Beryllium, Total	104	-	80-120	-	
Cadmium, Total	102	-	80-120	-	
Calcium, Total	101	-	80-120	-	
Chromium, Total	102	-	80-120	-	
Cobalt, Total	103	-	80-120	-	
Copper, Total	102	-	80-120	-	
Iron, Total	104	-	80-120	-	
Lead, Total	97	-	80-120	-	
Magnesium, Total	101	-	80-120	-	
Manganese, Total	101	-	80-120	-	
Nickel, Total	101	-	80-120	-	
Potassium, Total	106	-	80-120	-	
Selenium, Total	98	-	80-120	-	
Silver, Total	103	-	80-120	-	
Sodium, Total	103	-	80-120	-	
Thallium, Total	93	-	80-120	-	
Vanadium, Total	104	-	80-120	-	

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Project Number:** 170562203

**Lab Number:** L2435417

**Report Date:** 07/01/24

Parameter	LCS %Recovery	LCSD %Recovery	%Recovery Limits	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 07,14,21,23,25,27 Batch: WG1939942-2					
Zinc, Total	103	-	80-120	-	
Total Metals - Mansfield Lab Associated sample(s): 07,14,21,23,25,27 Batch: WG1939944-2					
Mercury, Total	103	-	80-120	-	

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	MSD Qual	MSD Found	MSD %Recovery	MSD Qual	Recovery Limits	RPD	RPD Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07,14,21,23,25,27 QC Batch ID: WG1939605-3 QC Sample: L2433604-01 Client ID: MS Sample												
Arsenic, TCLP	ND	1.2	1.26	105	-	-	-	-	75-125	-	-	20
Barium, TCLP	0.186J	20	20.9	104	-	-	-	-	75-125	-	-	20
Beryllium, TCLP	ND	0.5	0.561	112	-	-	-	-	75-125	-	-	20
Cadmium, TCLP	ND	0.53	0.551	104	-	-	-	-	75-125	-	-	20
Chromium, TCLP	ND	2	2.05	102	-	-	-	-	75-125	-	-	20
Copper, TCLP	0.043J	2.5	2.57	103	-	-	-	-	75-125	-	-	20
Lead, TCLP	0.0359J	5.3	5.54	104	-	-	-	-	75-125	-	-	20
Nickel, TCLP	ND	5	5.13	103	-	-	-	-	75-125	-	-	20
Selenium, TCLP	ND	1.2	1.25	104	-	-	-	-	75-125	-	-	20
Silver, TCLP	ND	0.5	0.517	103	-	-	-	-	75-125	-	-	20
Zinc, TCLP	ND	5	5.31	106	-	-	-	-	75-125	-	-	20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07,14,21,23,25,27 QC Batch ID: WG1939608-3 QC Sample: L2433604-01 Client ID: MS Sample												
Mercury, TCLP	ND	0.025	0.0242	97	-	-	-	-	75-125	-	-	20

### Matrix Spike Analysis Batch Quality Control

Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

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): 07,14,21,23,25,27    QC Batch ID: WG1939942-3    QC Sample: L2435301-01    Client ID: MS Sample									
Aluminum, Total	7430	172	8130	406	Q	-	75-125	-	20
Antimony, Total	1.32J	43.1	39.9	92		-	75-125	-	20
Arsenic, Total	20.6	10.3	30.6	97		-	75-125	-	20
Barium, Total	98.4	172	268	98		-	75-125	-	20
Beryllium, Total	0.516	4.31	4.90	102		-	75-125	-	20
Cadmium, Total	0.719J	4.57	5.14	112		-	75-125	-	20
Calcium, Total	1190	862	2030	97		-	75-125	-	20
Chromium, Total	18.4	17.2	36.6	106		-	75-125	-	20
Cobalt, Total	6.22	43.1	48.2	97		-	75-125	-	20
Copper, Total	72.6	21.6	92.4	92		-	75-125	-	20
Iron, Total	15500	86.2	13700	0	Q	-	75-125	-	20
Lead, Total	294	45.7	350	122		-	75-125	-	20
Magnesium, Total	2290	862	2940	75		-	75-125	-	20
Manganese, Total	279	43.1	317	88		-	75-125	-	20
Nickel, Total	23.3	43.1	66.1	99		-	75-125	-	20
Potassium, Total	728	862	1320	69	Q	-	75-125	-	20
Selenium, Total	1.17J	10.3	11.2	108		-	75-125	-	20
Silver, Total	0.382J	4.31	4.85	112		-	75-125	-	20
Sodium, Total	43.5J	862	941	109		-	75-125	-	20
Thallium, Total	0.352J	10.3	9.22	89		-	75-125	-	20
Vanadium, Total	54.9	43.1	96.3	96		-	75-125	-	20

### Matrix Spike Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

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): 07,14,21,23,25,27 QC Batch ID: WG1939942-3 QC Sample: L2435301-01 Client ID: MS Sample									
Zinc, Total	203	43.1	227	56	Q	-	75-125	-	20
Total Metals - Mansfield Lab Associated sample(s): 07,14,21,23,25,27 QC Batch ID: WG1939944-3 QC Sample: L2435301-01 Client ID: MS Sample									
Mercury, Total	0.375	1.62	1.99	100	-	-	80-120	-	20

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2435417

Report Date: 07/01/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07,14,21,23,25,27 QC Batch ID: WG1939605-4 QC Sample: L2433604-01 Client ID: DUP Sample						
Arsenic, TCLP	ND	ND	mg/l	NC		20
Barium, TCLP	0.186J	0.201J	mg/l	NC		20
Cadmium, TCLP	ND	ND	mg/l	NC		20
Chromium, TCLP	ND	ND	mg/l	NC		20
Lead, TCLP	0.0359J	0.0346J	mg/l	NC		20
Selenium, TCLP	ND	ND	mg/l	NC		20
Silver, TCLP	ND	ND	mg/l	NC		20
TCLP Metals by EPA 1311 - Mansfield Lab Associated sample(s): 07,14,21,23,25,27 QC Batch ID: WG1939608-4 QC Sample: L2433604-01 Client ID: DUP Sample						
Mercury, TCLP	ND	ND	mg/l	NC		20



## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2435417

Report Date: 07/01/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 07,14,21,23,25,27 QC Batch ID: WG1939942-4 QC Sample: L2435301-01 Client ID: DUP Sample					
Aluminum, Total	7430	6600	mg/kg	12	20
Antimony, Total	1.32J	1.17J	mg/kg	NC	20
Arsenic, Total	20.6	18.0	mg/kg	13	20
Barium, Total	98.4	82.2	mg/kg	18	20
Beryllium, Total	0.516	0.481	mg/kg	7	20
Cadmium, Total	0.719J	0.651J	mg/kg	NC	20
Calcium, Total	1190	1140	mg/kg	4	20
Chromium, Total	18.4	18.9	mg/kg	3	20
Cobalt, Total	6.22	5.31	mg/kg	16	20
Copper, Total	72.6	63.5	mg/kg	13	20
Iron, Total	15500	13300	mg/kg	15	20
Lead, Total	294	265	mg/kg	10	20
Magnesium, Total	2290	1960	mg/kg	16	20
Manganese, Total	279	242	mg/kg	14	20
Nickel, Total	23.3	22.9	mg/kg	2	20
Potassium, Total	728	361	mg/kg	67	Q 20
Selenium, Total	1.17J	0.987J	mg/kg	NC	20
Silver, Total	0.382J	0.346J	mg/kg	NC	20
Sodium, Total	43.5J	50.1J	mg/kg	NC	20

## Lab Duplicate Analysis

*Batch Quality Control*

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

Lab Number: L2435417

Report Date: 07/01/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	RPD Limits
<b>Total Metals - Mansfield Lab Associated sample(s): 07,14,21,23,25,27 QC Batch ID: WG1939942-4 QC Sample: L2435301-01 Client ID: DUP Sample</b>					
Thallium, Total	0.352J	0.304J	mg/kg	NC	20
Vanadium, Total	54.9	47.4	mg/kg	15	20
Zinc, Total	203	172	mg/kg	17	20
<b>Total Metals - Mansfield Lab Associated sample(s): 07,14,21,23,25,27 QC Batch ID: WG1939944-4 QC Sample: L2435301-01 Client ID: DUP Sample</b>					
Mercury, Total	0.375	0.320	mg/kg	16	20

Project Name: 145-165 WOLCOTT STREET

Project Number: 170562203

**Lab Serial Dilution  
Analysis  
Batch Quality Control**

Lab Number: L2435417

Report Date: 07/01/24

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 07,14,21,23,25,27 QC Batch ID: WG1939942-6 QC Sample: L2435301-01 Client ID: DUP Sample						
Aluminum, Total	7430	7560	mg/kg	2		20
Barium, Total	98.4	99.9	mg/kg	2		20
Calcium, Total	1190	1220	mg/kg	3		20
Copper, Total	72.6	73.3	mg/kg	1		20
Iron, Total	15500	16500	mg/kg	6		20
Lead, Total	294	291	mg/kg	1		20
Magnesium, Total	2290	2420	mg/kg	6		20
Manganese, Total	279	289	mg/kg	4		20
Vanadium, Total	54.9	56.0	mg/kg	2		20
Zinc, Total	203	216	mg/kg	6		20

# **INORGANICS & MISCELLANEOUS**

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

### SAMPLE RESULTS

**Lab ID:** L2435417-07  
**Client ID:** WC15\_COMP\_0-6  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 15:10  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Wet Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/26/24 15:32	1,1030	GEF



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

### SAMPLE RESULTS

**Lab ID:** L2435417-14  
**Client ID:** WC15\_COMP\_6-12  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 15:45  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Wet Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/26/24 15:32	1,1030	GEF



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

### SAMPLE RESULTS

**Lab ID:** L2435417-21  
**Client ID:** WC15\_COMP\_12-16  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 16:15  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Wet Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/26/24 15:32	1,1030	GEF



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

### SAMPLE RESULTS

**Lab ID:** L2435417-23  
**Client ID:** WC21\_COMP\_0-6  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 16:45  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/26/24 15:32	1,1030	GEF





**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

### SAMPLE RESULTS

**Lab ID:** L2435417-25  
**Client ID:** WC21\_COMP\_6-12  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 17:05  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Damp Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/26/24 15:32	1,1030	GEF



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

### SAMPLE RESULTS

**Lab ID:** L2435417-27  
**Client ID:** WC21\_COMP\_12-16  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 17:20  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

### Test Material Information

**Source of Material:** Unknown  
**Description of Material:** Non-Metallic - Wet Soil  
**Particle Size:** Medium  
**Preliminary Burning Time (sec):** 120

Parameter	Result	Date Analyzed	Analytical Method	Analyst
Ignitability of Solids - Westborough Lab				
Ignitability	NI	06/26/24 15:32	1,1030	GEF



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

## SAMPLE RESULTS

Lab ID: L2435417-01

Date Collected: 06/21/24 14:55

Client ID: WC15C\_GRAB\_2-4

Date Received: 06/21/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	75.7		%	0.100	NA	1	-	06/22/24 13:08	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

**Lab ID:** L2435417-07  
**Client ID:** WC15\_COMP\_0-6  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 15:10  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	86.2		%	0.100	NA	1	-	06/22/24 13:08	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	06/28/24 10:50	06/28/24 15:26	1,9010C/9012B	JER
pH (H)	6.80		SU	-	NA	1	-	06/27/24 11:58	1,9045D	JBB
Chromium, Hexavalent	ND		mg/kg	0.928	0.186	1	06/27/24 13:33	06/28/24 11:30	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/27/24 09:29	06/27/24 12:00	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/27/24 09:29	06/27/24 12:09	125,7.3	JLB



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

**Lab ID:** L2435417-08  
**Client ID:** WC15F\_GRAB\_9-11  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 15:30  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	90.2		%	0.100	NA	1	-	06/22/24 13:08	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

**Lab ID:** L2435417-14  
**Client ID:** WC15\_COMP\_6-12  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 15:45  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	73.2		%	0.100	NA	1	-	06/22/24 13:08	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.3	0.27	1	06/28/24 10:50	06/28/24 15:27	1,9010C/9012B	JER
pH (H)	7.33		SU	-	NA	1	-	06/27/24 11:58	1,9045D	JBB
Chromium, Hexavalent	ND		mg/kg	1.09	0.218	1	06/27/24 13:33	06/28/24 11:30	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/27/24 09:29	06/27/24 12:00	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/27/24 09:29	06/27/24 12:09	125,7.3	JLB



Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

## SAMPLE RESULTS

Lab ID: L2435417-15

Date Collected: 06/21/24 16:00

Client ID: WC15F\_GRAB\_14-16

Date Received: 06/21/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.6		%	0.100	NA	1	-	06/22/24 13:08	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

**Lab ID:** L2435417-21  
**Client ID:** WC15\_COMP\_12-16  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 16:15  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	87.8		%	0.100	NA	1	-	06/22/24 13:08	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	06/28/24 10:50	06/28/24 15:28	1,9010C/9012B	JER
pH (H)	7.21		SU	-	NA	1	-	06/27/24 11:58	1,9045D	JBB
Chromium, Hexavalent	ND		mg/kg	0.911	0.182	1	06/27/24 13:33	06/28/24 11:30	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/27/24 09:29	06/27/24 12:01	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/01/24 18:50	07/01/24 20:24	125,7.3	TLH





Project Name: 145-165 WOLCOTT STREET

Lab Number: L2435417

Project Number: 170562203

Report Date: 07/01/24

## SAMPLE RESULTS

Lab ID: L2435417-22

Date Collected: 06/21/24 16:40

Client ID: WC15E\_GRAB\_4-6

Date Received: 06/21/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.2		%	0.100	NA	1	-	06/22/24 13:08	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

**Lab ID:** L2435417-23  
**Client ID:** WC21\_COMP\_0-6  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 16:45  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	90.5		%	0.100	NA	1	-	06/22/24 13:08	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	06/28/24 10:50	06/28/24 15:29	1,9010C/9012B	JER
pH (H)	6.55		SU	-	NA	1	-	06/27/24 11:58	1,9045D	JBB
Chromium, Hexavalent	ND		mg/kg	0.884	0.177	1	06/27/24 13:33	06/28/24 11:30	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/27/24 09:29	06/27/24 12:01	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/01/24 18:50	07/01/24 20:24	125,7.3	TLH
Paint Filter Liquid	Negative		-	0	NA	1	-	06/26/24 18:28	1,9095B	AAS



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435417**Project Number:** 170562203**Report Date:** 07/01/24**SAMPLE RESULTS**

Lab ID: L2435417-24

Date Collected: 06/21/24 17:00

Client ID: WC15E\_GRAB\_6-8

Date Received: 06/21/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	81.0		%	0.100	NA	1	-	06/22/24 13:08	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

**Lab ID:** L2435417-25  
**Client ID:** WC21\_COMP\_6-12  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 17:05  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	82.1		%	0.100	NA	1	-	06/22/24 13:08	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.2	0.24	1	06/28/24 10:50	06/28/24 15:30	1,9010C/9012B	JER
pH (H)	3.33		SU	-	NA	1	-	06/27/24 11:58	1,9045D	JBB
Chromium, Hexavalent	ND		mg/kg	0.974	0.195	1	06/27/24 13:33	06/28/24 11:30	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/27/24 09:29	06/27/24 12:01	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/01/24 18:50	07/01/24 20:24	125,7.3	TLH



**Project Name:** 145-165 WOLCOTT STREET**Lab Number:** L2435417**Project Number:** 170562203**Report Date:** 07/01/24**SAMPLE RESULTS**

Lab ID: L2435417-26

Date Collected: 06/21/24 13:15

Client ID: WC15E\_GRAB\_13-15

Date Received: 06/21/24

Sample Location: 145-165 WOLCOTT STREET

Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	85.8		%	0.100	NA	1	-	06/22/24 13:08	121,2540G	ROI



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**SAMPLE RESULTS**

**Lab ID:** L2435417-27  
**Client ID:** WC21\_COMP\_12-16  
**Sample Location:** 145-165 WOLCOTT STREET

**Date Collected:** 06/21/24 17:20  
**Date Received:** 06/21/24  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
<b>General Chemistry - Westborough Lab</b>										
Solids, Total	83.3		%	0.100	NA	1	-	06/22/24 13:08	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	06/28/24 10:50	06/28/24 15:31	1,9010C/9012B	JER
pH (H)	5.68		SU	-	NA	1	-	06/27/24 11:58	1,9045D	JBB
Chromium, Hexavalent	ND		mg/kg	0.960	0.192	1	06/27/24 13:33	06/28/24 11:30	1,7196A	RDS
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/27/24 09:29	06/27/24 12:02	125,7.3	JLB
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/01/24 18:50	07/01/24 20:25	125,7.3	TLH



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Method Blank Analysis**  
**Batch Quality Control**

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 07,14,21,23,25,27 Batch: WG1940160-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	06/27/24 13:33	06/28/24 11:30	1,7196A	RDS
General Chemistry - Westborough Lab for sample(s): 07,14,21,23,25,27 Batch: WG1940172-1										
Cyanide, Reactive	ND		mg/kg	10	10.	1	06/27/24 09:29	06/27/24 11:59	125,7.3	JLB
General Chemistry - Westborough Lab for sample(s): 07,14 Batch: WG1940177-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	06/27/24 09:29	06/27/24 12:08	125,7.3	JLB
General Chemistry - Westborough Lab for sample(s): 07,14,21,23,25,27 Batch: WG1940723-1										
Cyanide, Total	ND		mg/kg	0.98	0.21	1	06/28/24 10:50	06/28/24 14:26	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 21,23,25,27 Batch: WG1941888-1										
Sulfide, Reactive	ND		mg/kg	10	10.	1	07/01/24 18:50	07/01/24 20:24	125,7.3	TLH

## Lab Control Sample Analysis

Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

Parameter	LCS		LCSD		%Recovery Limits	RPD	Qual	RPD Limits
	%Recovery	Qual	%Recovery	Qual				
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,23,25,27 Batch: WG1940160-2								
Chromium, Hexavalent	126	Q	-		80-120	-		20
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,23,25,27 Batch: WG1940172-2								
Cyanide, Reactive	84		-		30-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 07,14 Batch: WG1940177-2								
Sulfide, Reactive	95		-		60-125	-		40
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,23,25,27 Batch: WG1940321-1								
pH	100		-		99-101	-		
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,23,25,27 Batch: WG1940723-2 WG1940723-3								
Cyanide, Total	94		70	Q	80-120	29		35
General Chemistry - Westborough Lab Associated sample(s): 21,23,25,27 Batch: WG1941888-2								
Sulfide, Reactive	77		-		60-125	-		40



### Matrix Spike Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET

**Lab Number:** L2435417

**Project Number:** 170562203

**Report Date:** 07/01/24

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,23,25,27 QC Batch ID: WG1940160-4 QC Sample: L2435417-21 Client ID: WC15_COMP_12-16												
Chromium, Hexavalent	ND	1360	627	46	Q	-	-		75-125	-		20
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,23,25,27 QC Batch ID: WG1940723-4 WG1940723-5 QC Sample: L2435404-12 Client ID: MS Sample												
Cyanide, Total	ND	11	10	89		10	94		75-125	5		35

### Lab Duplicate Analysis Batch Quality Control

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Lab Number:** L2435417  
**Report Date:** 07/01/24

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01,07-08,14-15,21-27 QC Batch ID: WG1937883-1 QC Sample: L2435109-05 Client ID: DUP Sample						
Solids, Total	74.0	77.0	%	4		20
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,23,25,27 QC Batch ID: WG1940160-6 QC Sample: L2435417-21 Client ID: WC15_COMP_12-16						
Chromium, Hexavalent	ND	0.547J	mg/kg	NC		20
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,23,25,27 QC Batch ID: WG1940172-3 QC Sample: L2435269-02 Client ID: DUP Sample						
Cyanide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 07,14 QC Batch ID: WG1940177-3 QC Sample: L2435269-02 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40
General Chemistry - Westborough Lab Associated sample(s): 07,14,21,23,25,27 QC Batch ID: WG1940321-2 QC Sample: L2435417-23 Client ID: WC21_COMP_0-6						
pH (H)	6.55	6.55	SU	0		5
General Chemistry - Westborough Lab Associated sample(s): 21,23,25,27 QC Batch ID: WG1941888-3 QC Sample: L2435993-09 Client ID: DUP Sample						
Sulfide, Reactive	ND	ND	mg/kg	NC		40



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

Serial\_No:07012421:47  
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**Sample Receipt and Container Information**

Were project specific reporting limits specified? YES

**Cooler Information**

Cooler	Custody Seal
A	Absent
B	Absent
C	Absent
D	Absent

**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2435417-01A	Vial MeOH preserved	D	NA		2.9	Y	Absent		NYTCL-8260HLW(14)
L2435417-01B	Vial water preserved	D	NA		2.9	Y	Absent	22-JUN-24 08:13	NYTCL-8260HLW(14)
L2435417-01C	Vial water preserved	D	NA		2.9	Y	Absent	22-JUN-24 08:13	NYTCL-8260HLW(14)
L2435417-01D	Plastic 120ml unpreserved	D	NA		2.9	Y	Absent		TS(7)
L2435417-01E	Glass 120ml/4oz unpreserved	D	NA		2.9	Y	Absent		NJEPH-TPH-CAT1(14)
L2435417-02A	Metals Only-Glass 60mL/2oz unpreserved	D	NA		2.9	Y	Absent		HOLD-METAL(180)
L2435417-02B	Glass 250ml/8oz unpreserved	D	NA		2.9	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435417-03A	Metals Only-Glass 60mL/2oz unpreserved	D	NA		2.9	Y	Absent		HOLD-METAL(180)
L2435417-03B	Glass 250ml/8oz unpreserved	D	NA		2.9	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435417-04A	Metals Only-Glass 60mL/2oz unpreserved	D	NA		2.9	Y	Absent		HOLD-METAL(180)
L2435417-04B	Glass 250ml/8oz unpreserved	D	NA		2.9	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435417-05A	Metals Only-Glass 60mL/2oz unpreserved	D	NA		2.9	Y	Absent		HOLD-METAL(180)
L2435417-05B	Glass 250ml/8oz unpreserved	D	NA		2.9	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435417-06A	Metals Only-Glass 60mL/2oz unpreserved	D	NA		2.9	Y	Absent		HOLD-METAL(180)
L2435417-06B	Glass 250ml/8oz unpreserved	D	NA		2.9	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435417-07A	Metals Only-Glass 60mL/2oz unpreserved	D	NA		2.9	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),SE-TI(180),PB-TI(180),ZN-TI(180),CU-TI(180),SB-TI(180),CO-TI(180),V-TI(180),FE-TI(180),MN-TI(180),MG-TI(180),HG-T(28),CA-TI(180),K-TI(180),NA-TI(180),CD-TI(180)

\*Values in parentheses indicate holding time in days



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Serial\_No:**07012421:47  
**Lab Number:** L2435417  
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**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2435417-07B	Glass 120ml/4oz unpreserved	D	NA		2.9	Y	Absent		IGNIT-1030(14),REACTS(14),NYTCL-8270(14),TCN-9010(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2435417-07C	Glass 120ml/4oz unpreserved	D	NA		2.9	Y	Absent		IGNIT-1030(14),REACTS(14),NYTCL-8270(14),TCN-9010(14),HERB-APA(14),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2435417-07D	Glass 500ml/16oz unpreserved	D	NA		2.9	Y	Absent		IGNIT-1030(14),REACTS(14),NYTCL-8270(14),TCN-9010(14),HERB-APA(14),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2435417-07X	Plastic 120ml HNO3 preserved Extracts	D	NA		2.9	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2435417-07X9	Tumble Vessel	D	NA		2.9	Y	Absent		-
L2435417-08A	Vial MeOH preserved	C	NA		4.6	Y	Absent		NYTCL-8260HLW(14)
L2435417-08B	Vial water preserved	C	NA		4.6	Y	Absent	22-JUN-24 08:13	NYTCL-8260HLW(14)
L2435417-08C	Vial water preserved	C	NA		4.6	Y	Absent	22-JUN-24 08:13	NYTCL-8260HLW(14)
L2435417-08D	Plastic 120ml unpreserved	C	NA		4.6	Y	Absent		TS(7)
L2435417-08E	Glass 120ml/4oz unpreserved	C	NA		4.6	Y	Absent		NJEPH-TPH-CAT1(14)
L2435417-09A	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.6	Y	Absent		HOLD-METAL(180)
L2435417-09B	Glass 250ml/8oz unpreserved	C	NA		4.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435417-10A	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.6	Y	Absent		HOLD-METAL(180)
L2435417-10B	Glass 250ml/8oz unpreserved	C	NA		4.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435417-11A	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.6	Y	Absent		HOLD-METAL(180)
L2435417-11B	Glass 250ml/8oz unpreserved	C	NA		4.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435417-12A	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.6	Y	Absent		HOLD-METAL(180)
L2435417-12B	Glass 250ml/8oz unpreserved	C	NA		4.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435417-13A	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.6	Y	Absent		HOLD-METAL(180)
L2435417-13B	Glass 250ml/8oz unpreserved	C	NA		4.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Serial\_No:**07012421:47  
**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2435417-14A	Metals Only-Glass 60mL/2oz unpreserved	C	NA		4.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),AL-TI(180),CR-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),MN-TI(180),FE-TI(180),HG-T(28),MG-TI(180),K-TI(180),NA-TI(180),CD-TI(180),CA-TI(180)
L2435417-14B	Glass 120ml/4oz unpreserved	C	NA		4.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),IGNIT-1030(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2435417-14C	Glass 120ml/4oz unpreserved	C	NA		4.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),IGNIT-1030(14),REACTS(14),HERB-APA(14),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2435417-14D	Glass 500ml/16oz unpreserved	C	NA		4.6	Y	Absent		TCN-9010(14),NYTCL-8270(14),IGNIT-1030(14),REACTS(14),HERB-APA(14),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2435417-14X	Plastic 120ml HNO3 preserved Extracts	C	NA		4.6	Y	Absent		CD-CI(180),BA-CI(180),AS-CI(180),HG-C(28),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2435417-14X9	Tumble Vessel	C	NA		4.6	Y	Absent		-
L2435417-15A	Vial MeOH preserved	B	NA		2.6	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2435417-15B	Vial water preserved	B	NA		2.6	Y	Absent	22-JUN-24 08:13	NYTCL-8260H(14),NYTCL-8260HLW(14)
L2435417-15C	Vial water preserved	B	NA		2.6	Y	Absent	22-JUN-24 08:13	NYTCL-8260H(14),NYTCL-8260HLW(14)
L2435417-15D	Plastic 120ml unpreserved	B	NA		2.6	Y	Absent		TS(7)
L2435417-15E	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		NJEPH-TPH-CAT1(14)
L2435417-16A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		HOLD-METAL(180)
L2435417-16B	Glass 250ml/8oz unpreserved	B	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435417-17A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		HOLD-METAL(180)
L2435417-17B	Glass 250ml/8oz unpreserved	B	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435417-18A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		HOLD-METAL(180)
L2435417-18B	Glass 250ml/8oz unpreserved	B	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435417-19A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		HOLD-METAL(180)
L2435417-19B	Glass 250ml/8oz unpreserved	B	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435417-20A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		HOLD-METAL(180)

\*Values in parentheses indicate holding time in days



**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Serial\_No:**07012421:47  
**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Container Information**

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2435417-20B	Glass 250ml/8oz unpreserved	B	NA		2.6	Y	Absent		HOLD-CONTINGENCY(14),HOLD-WETCHEM()
L2435417-21A	Metals Only-Glass 60mL/2oz unpreserved	B	NA		2.6	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),TL-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),CO-TI(180),V-TI(180),HG-T(28),MN-TI(180),FE-TI(180),MG-TI(180),CA-TI(180),K-TI(180),CD-TI(180),NA-TI(180)
L2435417-21B	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		TCN-9010(14),IGNIT-1030(14),REACTS(14),NYTCL-8270(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2435417-21C	Glass 120ml/4oz unpreserved	B	NA		2.6	Y	Absent		TCN-9010(14),IGNIT-1030(14),REACTS(14),NYTCL-8270(14),HERB-APA(14),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2435417-21D	Glass 500ml/16oz unpreserved	B	NA		2.6	Y	Absent		TCN-9010(14),IGNIT-1030(14),REACTS(14),NYTCL-8270(14),HERB-APA(14),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2435417-21X	Plastic 120ml HNO3 preserved Extracts	B	NA		2.6	Y	Absent		CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2435417-21X9	Tumble Vessel	B	NA		2.6	Y	Absent		-
L2435417-22A	Vial MeOH preserved	A	NA		5.1	Y	Absent		NYTCL-8260H(14),NYTCL-8260HLW(14)
L2435417-22B	Vial water preserved	A	NA		5.1	Y	Absent	22-JUN-24 08:13	NYTCL-8260H(14),NYTCL-8260HLW(14)
L2435417-22C	Vial water preserved	A	NA		5.1	Y	Absent	22-JUN-24 08:13	NYTCL-8260H(14),NYTCL-8260HLW(14)
L2435417-22D	Plastic 120ml unpreserved	A	NA		5.1	Y	Absent		TS(7)
L2435417-22E	Vial Large Septa unpreserved (4oz)	A	NA		5.1	Y	Absent		TCLP-EXT-ZHE(14)
L2435417-22F	Glass 120ml/4oz unpreserved	A	NA		5.1	Y	Absent		NJEPH-TPH-CAT1(14)
L2435417-22G	Glass 60ml unpreserved split	A	NA		5.1	Y	Absent		A2-GLYCOL(14),A2-ALCOHOL(14)
L2435417-22X	Vial unpreserved Extracts	A	NA		5.1	Y	Absent		TCLP-VOA(14)
L2435417-22Y	Vial unpreserved Extracts	A	NA		5.1	Y	Absent		TCLP-VOA(14)
L2435417-23A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.1	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),TL-TI(180),AL-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),V-TI(180),CO-TI(180),MG-TI(180),HG-T(28),FE-TI(180),MN-TI(180),CD-TI(180),NA-TI(180),CA-TI(180),K-TI(180)

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Serial\_No:**07012421:47  
**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2435417-23B	Glass 120ml/4oz unpreserved	A	NA		5.1	Y	Absent		TCN-9010(14),NYTCL-8270(14),REACTS(14),IGNIT-1030(14),HERB-APA(14),TS(7),PH-9045(1),PAINTF(),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2435417-23C	Glass 120ml/4oz unpreserved	A	NA		5.1	Y	Absent		TCN-9010(14),NYTCL-8270(14),REACTS(14),IGNIT-1030(14),HERB-APA(14),PH-9045(1),PAINTF(),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2435417-23D	Glass 500ml/16oz unpreserved	A	NA		5.1	Y	Absent		TCN-9010(14),NYTCL-8270(14),REACTS(14),IGNIT-1030(14),HERB-APA(14),PH-9045(1),PAINTF(),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2435417-23E	Glass 500ml/16oz unpreserved	A	NA		5.1	Y	Absent		TCN-9010(14),NYTCL-8270(14),REACTS(14),IGNIT-1030(14),HERB-APA(14),PH-9045(1),PAINTF(),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2435417-23X	Plastic 120ml HNO3 preserved Extracts	A	NA		5.1	Y	Absent		BE-CI(180),CD-CI(180),BA-CI(180),AS-CI(180),NI-CI(180),HG-C(28),CU-CI(180),ZN-CI(180),PB-CI(180),SE-CI(180),CR-CI(180),AG-CI(180)
L2435417-23X9	Tumble Vessel	A	NA		5.1	Y	Absent		-
L2435417-23Y	Amber 1000ml unpreserved Extracts	A	NA		5.1	Y	Absent		TCLP-8270(14),HERB-TCLP*(14),PEST-TCLP*(14)
L2435417-24A	Vial MeOH preserved	A	NA		5.1	Y	Absent		NYTCL-8260HLW(14)
L2435417-24B	Vial water preserved	A	NA		5.1	Y	Absent	22-JUN-24 08:13	NYTCL-8260HLW(14)
L2435417-24C	Vial water preserved	A	NA		5.1	Y	Absent	22-JUN-24 08:13	NYTCL-8260HLW(14)
L2435417-24D	Plastic 120ml unpreserved	A	NA		5.1	Y	Absent		TS(7)
L2435417-24E	Glass 120ml/4oz unpreserved	A	NA		5.1	Y	Absent		NJEPH-TPH-CAT1(14)
L2435417-24G	Glass 60ml unpreserved split	A	NA		5.1	Y	Absent		A2-GLYCOL(14),A2-ALCOHOL(14)
L2435417-25A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.1	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),TL-TI(180),NI-TI(180),CR-TI(180),AL-TI(180),SE-TI(180),SB-TI(180),CU-TI(180),ZN-TI(180),PB-TI(180),V-TI(180),CO-TI(180),MG-TI(180),FE-TI(180),HG-T(28),MN-TI(180),CA-TI(180),NA-TI(180),CD-TI(180),K-TI(180)
L2435417-25B	Glass 120ml/4oz unpreserved	A	NA		5.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),IGNIT-1030(14),REACTS(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)

**Project Name:** 145-165 WOLCOTT STREET  
**Project Number:** 170562203

**Serial\_No:**07012421:47  
**Lab Number:** L2435417  
**Report Date:** 07/01/24

**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2435417-25C	Glass 120ml/4oz unpreserved	A	NA		5.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),IGNIT-1030(14),REACTS(14),HERB-APA(14),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2435417-25D	Glass 500ml/16oz unpreserved	A	NA		5.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),IGNIT-1030(14),REACTS(14),HERB-APA(14),PH-9045(1),NYTCL-8081(14),REACTCN(14),NYTCL-8082(365),HEXCR-7196(30)
L2435417-25X	Plastic 120ml HNO3 preserved Extracts	A	NA		5.1	Y	Absent		BE-CI(180),CD-CI(180),BA-CI(180),AS-CI(180),NI-CI(180),HG-C(28),CU-CI(180),ZN-CI(180),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L2435417-25X9	Tumble Vessel	A	NA		5.1	Y	Absent		-
L2435417-26A	Vial MeOH preserved	A	NA		5.1	Y	Absent		NYTCL-8260HLW(14)
L2435417-26B	Vial water preserved	A	NA		5.1	Y	Absent	22-JUN-24 08:13	NYTCL-8260HLW(14)
L2435417-26C	Vial water preserved	A	NA		5.1	Y	Absent	22-JUN-24 08:13	NYTCL-8260HLW(14)
L2435417-26D	Plastic 120ml unpreserved	A	NA		5.1	Y	Absent		TS(7)
L2435417-26E	Glass 120ml/4oz unpreserved	A	NA		5.1	Y	Absent		NJEPH-TPH-CAT1(14)
L2435417-26G	Glass 60ml unpreserved split	A	NA		5.1	Y	Absent		A2-GLYCOL(14),A2-ALCOHOL(14)
L2435417-27A	Metals Only-Glass 60mL/2oz unpreserved	A	NA		5.1	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),AL-TI(180),TL-TI(180),CR-TI(180),NI-TI(180),SE-TI(180),ZN-TI(180),SB-TI(180),PB-TI(180),CU-TI(180),CO-TI(180),V-TI(180),MN-TI(180),MG-TI(180),HG-T(28),FE-TI(180),NA-TI(180),CD-TI(180),K-TI(180),CA-TI(180)
L2435417-27B	Glass 120ml/4oz unpreserved	A	NA		5.1	Y	Absent		TCN-9010(14),REACTS(14),IGNIT-1030(14),NYTCL-8270(14),HERB-APA(14),TS(7),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2435417-27C	Glass 120ml/4oz unpreserved	A	NA		5.1	Y	Absent		TCN-9010(14),REACTS(14),IGNIT-1030(14),NYTCL-8270(14),HERB-APA(14),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2435417-27D	Glass 500ml/16oz unpreserved	A	NA		5.1	Y	Absent		TCN-9010(14),REACTS(14),IGNIT-1030(14),NYTCL-8270(14),HERB-APA(14),PH-9045(1),NYTCL-8081(14),NYTCL-8082(365),REACTCN(14),HEXCR-7196(30)
L2435417-27X9	Tumble Vessel	A	NA		5.1	Y	Absent		-



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**Container Information**

<b>Container ID</b>	<b>Container Type</b>	<b>Cooler</b>	<b>Initial pH</b>	<b>Final pH</b>	<b>Temp deg C</b>	<b>Pres</b>	<b>Seal</b>	<b>Frozen Date/Time</b>	<b>Analysis(*)</b>
L2435417-27Z	Plastic 120ml HNO3 preserved Extracts	A	NA		5.1	Y	Absent		BE-CI(180),CD-CI(180),NI-CI(180),AS-CI(180),BA-CI(180),HG-C(28),CU-CI(180),ZN-CI(180),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)

**Project Name:** 145-165 WOLCOTT STREET  
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**Lab Number:** L2435417  
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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.

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### 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

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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.)

**Project Name:** 145-165 WOLCOTT STREET  
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**Lab Number:** L2435417  
**Report Date:** 07/01/24

## REFERENCES

- 1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.
- 103 Analysis of Extractable Petroleum Hydrocarbon Compounds (EPH) in Aqueous and Soil/Sediment/Sludge Matrices. New Jersey Department of Environmental Protection, Site Remediation Program, (Version 1.1), Document # NJDEP EPH 10/08, Revision 3, August 2010.
- 107 Alpha Analytical - In-house calculation method.
- 121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.
- 125 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates IIIA, April 1998.

## LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



## Certification Information

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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, NO<sub>2</sub>, NO<sub>3</sub>.

### 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

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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**


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For a complete listing of analytes and methods, please contact your Alpha Project Manager.




	<b>NEW YORK CHAIN OF CUSTODY</b>	<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page	Date Rec'd in Lab	ALPHA Job #																																																																																																				
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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	<b>Project Information</b> Project Name: 146-165 Wolcott St Project Location: 145-165 Wolcott St Project # 170562203 (Use Project name as Project #) <input type="checkbox"/>		<b>Deliverables</b> <input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQulS (1 File) <input type="checkbox"/> EQulS (4 File) <input type="checkbox"/> Other																																																																																																					
<b>Client Information</b> Client: Langan Address: 360 W 31st St, 8th Floor New York, NY 10001 Phone: Fax: Email: npalumbo@langan.com		<b>Project Manager:</b> Nicholas Palumbo <b>ALPHAQuote #:</b> <b>Turn-Around Time</b> Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		<b>Billing Information</b> <input checked="" type="checkbox"/> Same as Client Info PO #																																																																																																					
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04	WC15D-2-3		15:04																																																																																																						
05	WC15E-3-4		15:06																																																																																																						
06	WC15F-5-6		15:08																																																																																																						
07	WC15-OMP-0-6		15:10																																																																																																						
08	WC15F-GRAB-9-11		15:30																																																																																																						
09	WC15B-6-7		15:32																																																																																																						
10	WC15C-7-8		15:34																																																																																																						



	<b>NEW YORK CHAIN OF CUSTODY</b>	<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page <b>2 of 3</b>	Date Rec'd in Lab <b>6/22/24</b>	ALPHA Job # <b>L2435417</b>						
	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	<b>Project Information</b> Project Name: <b>145-165 Wolcott St</b> Project Location: <b>145-165 Wolcott St</b> Project # <b>170512203</b> (Use Project name as Project #) <input type="checkbox"/>	<b>Deliverables</b> <input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQUIS (1 File) <input type="checkbox"/> EQUIS (4 File) <input type="checkbox"/> Other	<b>Billing Information</b> <input checked="" type="checkbox"/> Same as Client Info PO #						
<b>Client Information</b> Client: <b>Langan</b> Address: <b>360 W 31st St, 8th Floor New York, NY</b> Phone: Fax: Email: <b>npalumbo@langan.com</b>		Project Manager: <b>Nicholas Palumbo</b> ALPHAQuote #: Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:	<b>Regulatory Requirement</b> <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge	<b>Disposal Site Information</b> Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:							
These samples have been previously analyzed by Alpha <input type="checkbox"/> Other project specific requirements/comments: <b>copy lgrose@langan.com + datamanagement@langan.com on lab results.</b> Please specify Metals or TAL.			<b>ANALYSIS</b>		<b>Sample Filtration</b> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <b>Preservation</b> <input type="checkbox"/> Lab to do (Please Specify below) Sample Specific Comments						
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date    Time	Sample Matrix	Sampler's Initials	GROUP A	GROUP B	GROUP C	GROUP D	GROUP E - HOLD	Total Bottles	
<b>35417-11</b>	<b>WC15D-10-11</b>	<b>HOLD</b>	<b>6/21/24</b>	<b>15:36</b>	<b>S</b>	<b>LLMF</b>					
<b>12</b>	<b>WC15F-11-12</b>	<b>HOLD</b>		<b>15:38</b>					<b>XXX</b>		
<b>13</b>	<b>WC15B-9-10</b>	<b>HOLD</b>		<b>15:40</b>					<b>XXX</b>		
<b>14</b>	<b>WC15-COMP-6-12</b>			<b>15:45</b>		<b>X</b>			<b>XXX</b>		
<b>15</b>	<b>WC15F-GRAB-14-16</b>			<b>16:00</b>		<b>X</b>			<b>XXX</b>		
<b>16</b>	<b>WC15B-12-13</b>			<b>16:02</b>					<b>XXX</b>		
<b>17</b>	<b>WC15C-13-14</b>			<b>16:04</b>					<b>XXX</b>		
<b>18</b>	<b>WC15D-14-15</b>			<b>16:06</b>					<b>XXX</b>		
<b>19</b>	<b>WC15F-15-16</b>			<b>16:08</b>					<b>XXX</b>		
<b>20</b>	<b>WC15C-15-16</b>			<b>16:10</b>					<b>XXX</b>		
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other	Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle	Westboro: Certification No: MA935 Mansfield: Certification No: MA015	Container Type  Preservative	Relinquished By: <b>Anthony Green</b> Date/Time: <b>6/21/24 16:40</b> Received By: <b>Anthony Green</b> Date/Time: <b>6/21/24 17:40</b> <b>Anthony Green</b> <b>6/22/24 00:40</b> <b>Anthony Green</b> <b>6/22/24 02:40</b>							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.)



	<b>NEW YORK CHAIN OF CUSTODY</b>	<b>Service Centers</b> Mahwah, NJ 07430: 35 Whitney Rd, Suite 5 Albany, NY 12205: 14 Walker Way Tonawanda, NY 14150: 275 Cooper Ave, Suite 105	Page <b>3 of 3</b>	Date Rec'd in Lab <span style="font-size: 1.5em; color: blue;">6/22/24</span>	ALPHA Job # <span style="font-size: 1.5em; color: blue;">L2435417</span>						
		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								
<b>Project Information</b> Project Name: <span style="color: blue;">145-165 WOLCOTT ST</span> Project Location: <span style="color: blue;">145-165 WOLCOTT ST</span> Project # <span style="color: blue;">170562203</span> (Use Project name as Project #) <input type="checkbox"/>		<b>Deliverables</b> <input checked="" type="checkbox"/> ASP-A <input type="checkbox"/> ASP-B <input type="checkbox"/> EQuIS (1 File) <input type="checkbox"/> EQuIS (4 File) <input type="checkbox"/> Other		<b>Billing Information</b> <input checked="" type="checkbox"/> Same as Client Info PO #							
<b>Client Information</b> Client: <span style="color: blue;">Langan</span> Address: <span style="color: blue;">360 W 31st St, 8th Floor New York, NY 10001</span> Phone: Fax: Email: <span style="color: blue;">n.palumbo@langan.com</span>		<b>Regulatory Requirement</b> <input type="checkbox"/> NY TOGS <input checked="" type="checkbox"/> NY Part 375 <input type="checkbox"/> AWQ Standards <input type="checkbox"/> NY CP-51 <input checked="" type="checkbox"/> NY Restricted Use <input type="checkbox"/> Other <input type="checkbox"/> NY Unrestricted Use <input type="checkbox"/> NYC Sewer Discharge		<b>Disposal Site Information</b> Please identify below location of applicable disposal facilities. Disposal Facility: <input type="checkbox"/> NJ <input type="checkbox"/> NY <input type="checkbox"/> Other:							
Turn-Around Time Standard <input checked="" type="checkbox"/> Due Date: Rush (only if pre approved) <input type="checkbox"/> # of Days:		<b>ANALYSIS</b>		<b>Sample Filtration</b> <input type="checkbox"/> Done <input type="checkbox"/> Lab to do <input type="checkbox"/> Lab to do (Please Specify below)							
These samples have been previously analyzed by Alpha <input type="checkbox"/>		Other project specific requirements/comments: <span style="color: blue; font-size: 1.2em;">copy igros@langan.com + datamanagement@langan.com on all lab results.</span>		Please specify Metals or TAL.							
ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Time	Sample Matrix	Sampler's Initials	GROUP A	GROUP B	GROUP C	GROUP D	GROUP E - HOLD	Sample Specific Comments
35417-21	WC15-COMP-12-16	6/21/24	16:15	S	LC/ME	X					
22	WC15E-GRAB-4-6	↓	16:40	↓	↓						
23	WC21-COMP-0-6	↓	16:45	↓	↓						
24	WC15E-GRAB-6-8	↓	17:00	↓	↓						
25	WC21-COMP-6-12	↓	17:05	↓	↓						
26	WC15E-GRAB-13-15	↓	13:15	↓	↓						
-27	WC21-COMP-12-16	↓	17:20	↓	↓						
MK 6/22											
Preservative Code: A = None B = HCl C = HNO <sub>3</sub> D = H <sub>2</sub> SO <sub>4</sub> E = NaOH F = MeOH G = NaHSO <sub>4</sub> H = Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> K/E = Zn Ac/NaOH O = Other	Container Code P = Plastic A = Amber Glass V = Vial G = Glass B = Bacteria Cup C = Cube O = Other E = Encore D = BOD Bottle	Westboro: Certification No: MA935 Mansfield: Certification No: MA015	Container Type  Preservative	Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)							
Relinquished By: <span style="color: blue;">Langan</span>		Date/Time: <span style="color: blue;">6/21/24 17:40</span>		Received By: <span style="color: blue;">Anthony Green</span>		Date/Time: <span style="color: blue;">6/21/24 17:40</span>		JUN 21 2024 0040			
Anthony Green		6/22/24 0040		Anthony Green		6/22/24 0240					

## Quantitation Report (QT Reviewed)

Data Path : K:\VOA129\2024\240627A\  
 Data File : V29240627A20.D  
 Acq On : 27 Jun 2024 02:53 pm  
 Operator : VOA129:AJK  
 Sample : L2435417-22,31,5.56,5,,B  
 Misc : WG1940343,ICAL21213  
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jun 27 15:50:13 2024  
 Quant Method : K:\VOA129\2024\240627A\V129\_240618N\_8260.m  
 Quant Title : VOLATILES BY GC/MS  
 QLast Update : Thu Jun 20 08:26:04 2024  
 Response via : Initial Calibration

Sub List : 8260-CurveSoil - Megamix plus Diox27A01.D•

