GEI Consultants

September 5, 2018

Consulting
Engineers and
Scientists

Mr. John B. Miller, P.E.
New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway, 11th Floor
Albany, NY 12233-7014

Re: Pre-Design Investigation Summary Report
Former Safety Kleen Dry Cleaners Site (Site # 336078)
115 Temple Hill Road
New Windsor, New York 12584

Dear Mr. Miller:

This Pre-Design Investigation (PDI) summary report presents the results of the Membrane Interface Probe (MIP) investigation completed to determine the extent of volatile organic compounds (VOCs)-impacted soil that exceed the Unrestricted Use Soil Cleanup Objectives (SCOs) below the Former Safety Kleen Dry Cleaners Site (the Site) located in New Windsor, New York **(Figure 1)**. GEI Consultants Inc., P.C. (GEI) completed the work in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved Interim Remedial Measure Work Plan, dated August 16, 2017. A total of twenty-four (24) MIP borings were advanced at the Site from July 23 through 26, 2018. Grab and composite soil samples were also collected from the most impacted borings according to the MIP data and sent to a New York State Environmental Laboratory Approval Program (ELAP)-approved laboratory for analysis. The results of the investigation are summarized below.

MIP and Analytical Soil Sample Locations

MIP borings were advanced at twenty-four (24) locations in the footprint of the former dry cleaner unit (Suite 700) and the surrounding parking lot **(Figure 2)** to depths ranging from approximately 5-19.6 feet below grade. Prior to the MIP investigation, the subslab depressurization system (SSDS) was modified and Unit 700 was demolished in preparation for the planned redevelopment at the Site. The MIP locations proposed in the work plan were altered because of construction activities and utilities at the Site. The MIP locations are identified below:

- Ten (10) MIP borings were completed at locations within the footprint of Suite 700: MIP-01, MIP-02, MIP-03, MIP-15, MIP-17, MIP-18, MIP-20, MIP-22, MIP-23, and MIP-24.
- Three (3) MIP borings were completed at locations proximate to monitoring well MW-7 in the former alleyway: MIP-16, MIP-19, and MIP-21.
- Three (3) MIP borings were completed at the front parking lot area close to Suites 700 and 800: MIP-12, MIP-13, and MIP-14.

GEI Consultants, Inc., P.C.
455 Winding Brook Drive, Suite 201, Glastonbury, CT 06033
860.368.5300 fax: 860.368.5307

- Eight (8) MIP borings were completed at the rear parking lot area close to Suites 600, 700, and 800.

MIP investigations generate relative data. As such, VOC concentration cannot be directly determined from the MIP detector responses. This is due to subsurface conditions that change with depth as the MIP is advanced (e.g. soil type, density, and moisture content) and influences encountered (e.g. rate of VOC diffusion off soil) that cannot be compensated for at the surface. However, laboratory analysis of discrete soil samples collected can confirm and quantify the VOCs present. To this end, three grab soil samples and one composite soil sample were collected and analyzed from the most impacted boring according to the MIP data and the area near the most impacted borings. The MIP points and soil sample locations are shown in **Figure 2** and presented below:

MIP ID (Terminal depth, feet below grade)	Analytical Sample ID (Depth, feet below grade)
MIP-01 (6.50')	MIP-FSK-01 (3'-4')
MIP-02 (7.50')	-
MIP-03 (6.75')	-
MIP-04 (16.40')	-
MIP-05 (7.35')	-
MIP-06 (19.60')	-
MIP-07 (8.20')	-
MIP-08 (10.15')	-
MIP-09 (8.40')	-
MIP-10 (8.30')	-
MIP-11 (10.35')	-
MIP-12 (5.00')	-
MIP-13 (6.75')	-
MIP-14 (6.40')	-
MIP-15 (8.45')	-
MIP-16 (7.95')	-
MIP-17 (8.55')	-
MIP-18 (8.55')	-
MIP-19 (8.80')	MIP-FSK-19 (9'-10')
MIP-20 (9.90')	MIP-FSK-20 (5'-6')
MIP-21 (7.65')	-
MIP-22 (9.80')	-
MIP-23 (6.90')	-
MIP-24 (8.60')	-

MIP-19 had a terminal depth (8.8 feet below grade) that was less than soil sample MIP-FSK-19 (9-10 feet below grade) because the MIP probe met refusal and could not be advanced further without the risk of damage to the probe. Also, the location of the permeable membrane on the probe is approximately 1 foot from the bottom end of the probe. Volatiles in the subsurface diffuse across the membrane and partition into a stream of carrier gas where they can be swept to the detector. The MIP data is presented in **Attachment 1** and discussed below. The discussion is organized by detector as they appear on the MIP investigation logs from left to right. The investigation logs present individual graphs of the three gas detector responses plotted in color (Halogen Specific Detector (XSD)-red, Photoionization Detector (PID)-blue, and Flame Ionization Detector (FID)-orange) along with the results of the electrical conductivity readings (shown in black).

Electrical Conductivity (mS/m)

Electrical conductivity is measured in Millisiemens/meter (mS/m) by a detector fitted on the MIP probe that sends current through the formation between two contacts on the probe. Current and voltage are measured between two probe contacts. Soil conductivity varies with grain size. Finer grained soils, such as silts or clays, tend to produce higher electrical conductivity signals than coarser grained sands and gravels.

MIP logs provide an inferred and generalized geologic profile of penetrated strata based on electrical conductivity readings. The data from the MIP logs were compared to historical environmental boring logs presented in the Interim Remedial Investigation Report, Revision 1, by Solutech, Inc., dated May 17, 2012. There was good agreement between the two data sets. Both the MIP logs and the environmental boring logs describe a site with silty clay and rock fragments from the surface to the maximum depth of refusal at approximately 20 feet below grade. This lithology was generally uniform across the Site.

XSD (µV)

The XSD is the most sensitive of the three detectors to halogenated compounds including chlorinated VOCs. XSD responses measured in microvolts (µV) were present in only two MIP locations **(Attachment 1)**. These borings were in the area of the former dry cleaner equipment (MIP-20 and MIP-22). Both MIP-20 and MIP-22 were advanced to a maximum depth of approximately 10 feet below grade surface. The XSD responses were present between zero and 10 feet below grade surface. These responses are useful as a screening tool but should not be used to estimate constituent concentrations.

PID (µV)

The PID is the most sensitive of the three detectors to aromatic hydrocarbons, generally associated with petroleum compounds. Although the PID will respond to chlorinated VOCs, it responds with less sensitivity than the XSD. PID responses were present in eight MIP locations (MIP-03, MIP-04, MIP-06, MIP-13, MIP-14, MIP-15, MIP-20, and MIP-22) **(see Attachment 1)**.

These responses should only be regarded as a screening tool and not used to estimate constituent concentrations.

FID (µV)

The FID is a general detector useful for hydrocarbon detection, but less sensitive to aromatic and chlorinated VOCs reported by the other two detectors. FID responses were present in eleven MIP locations (MIP-02, MIP-04, MIP-05, MIP-08, MIP-12, MIP-13, MIP-14, MIP-15, MIP-17, MIP-22, and MIP-23) **(see Attachment 1)**. The FID responses were generally similar to the PID and, therefore, appeared more sensitive to aromatic compounds than chlorinated VOCs.

Summary of Soil Analytical Results

GEI conducted soil sampling as part of the MIP investigation. Soil samples were collected from the area of most impact according to the MIP data and historical groundwater monitoring data and analyzed by York Analytical Laboratories (Stratford, Connecticut). Three grab samples were collected from MIP-01 (3-4 feet below grade), MIP-19 (9-10 feet below grade), and MIP-20 (5-6 feet below grade). Seven composite samples were collected from the soil borings around the former Suite 700. The grab samples were analyzed for VOCs via EPA Method 8260C. The composite samples were analyzed for the following parameters:

- Toxic Characteristic Leaching Procedure (TCLP) VOCs (SW 1311/8260C)
- Total and TCLP Semivolatile Organic Compounds (SW 1311/8270D)
- Total and TCLP Resource Conservation and Recovery Act (RCRA) Metals (6010C) (Mercury 7473)
- Polychlorinated biphenyls (8082A)
- Ignitability (1030P)
- Corrosivity pH (9045D)
- Reactive Cyanide/Sulfide (SW 846 CH. 7.3)
- EPH (GRO and DRO)
- Pesticides
- Herbicides

The laboratory data is presented in **Attachment 2.** The analytical detections were compared to the SCOs and no exceedances were observed. The results are summarized in the Table below:

Analyte	Unrestricted Use SCO, mg/kg	MIP-FSK-01 Grab (3-4 feet bgs), mg/kg	MIP-FSK-19 Grab (9-10 feet bgs), mg/kg	MIP-FSK-20 Grab (3-4 feet bgs), mg/kg	MIP-FSK-Composite, mg/kg
Acetone	0.05	0.005	-	-	-
PCE	1.3	0.0058	0.0068	0.93	-
Methylene Chloride	0.05	-	0.005	-	-
Benzyl butyl phthalate	NE	-	-	-	0.0972

Analyte	Unrestricted Use SCO, mg/kg	MIP-FSK-01 Grab (3-4 feet bgs), mg/kg	MIP-FSK-19 Grab (9-10 feet bgs), mg/kg	MIP-FSK-20 Grab (3-4 feet bgs), mg/kg	MIP-FSK-Composite, mg/kg
Bis(2-ethylhexyl phthalate)	NE	-	-	-	0.0535
Arsenic	13	-	-	-	2.94
Barium	350	-	-	-	41.9
Chromium	NE	-	-	-	14.1
Lead	63	-	-	-	9.87
Selenium	3.9	-	-	-	0.346*

Notes:
NE = Not Established
mg/kg = milligram per kilogram
bgs = below ground surface
* = Unit in milligram per liter (mg/L)

Community Air Monitoring Program (CAMP)

VOCs and PM-10 were monitored upwind and downwind on a continuous basis during intrusive field work using a PID for VOCs and a particulate meter for particulate dust. Water was available to be sprayed on exposed surfaces and roadways to suppress windblown dust and BioSolve spray was available on site to control any odors during the MIP work. These dust and odor control measures were not required during the work. There was no elevated concentration of the monitored parameters. A summary of the CAMP results is presented in **Attachment 3**.

Photographic Log

A photographic log of the MIP investigation drilling is presented in **Attachment 4**.

Recommendation

Based on the MIP investigation and soil sampling analytical results, there are no detections above the Unrestricted Use SCO that would require further soil remedial action at the Site. Only two MIP locations detected the presence of chlorinated VOCs out of 24 MIP locations. These locations were around the former dry cleaner equipment. Soil samples collected from this area identified PCE and methylene chloride in concentrations that were below the Unrestricted Use SCO. All other analytes identified in the soil analytical data were below the Unrestricted Use SCO.

The modified subslab depressurization system and quarterly soil vapor monitoring will continue at the Site to mitigate indoor vapor intrusion.

References

GEI Consultants, Inc., August 2017. *Interim Remedial Measure Work Plan*

Solutech Inc., May 2012. *Interim Remedial Investigation Report, Revision 1*

Please feel free to contact us with any questions.

Sincerely,

GEI CONSULTANTS, INC.

Matthew J. O'Neil, P.E.
Senior Engineer

Nicholas J. Recchia, P.G.
Project Manager

MJO/NJR/amm
Enclosures
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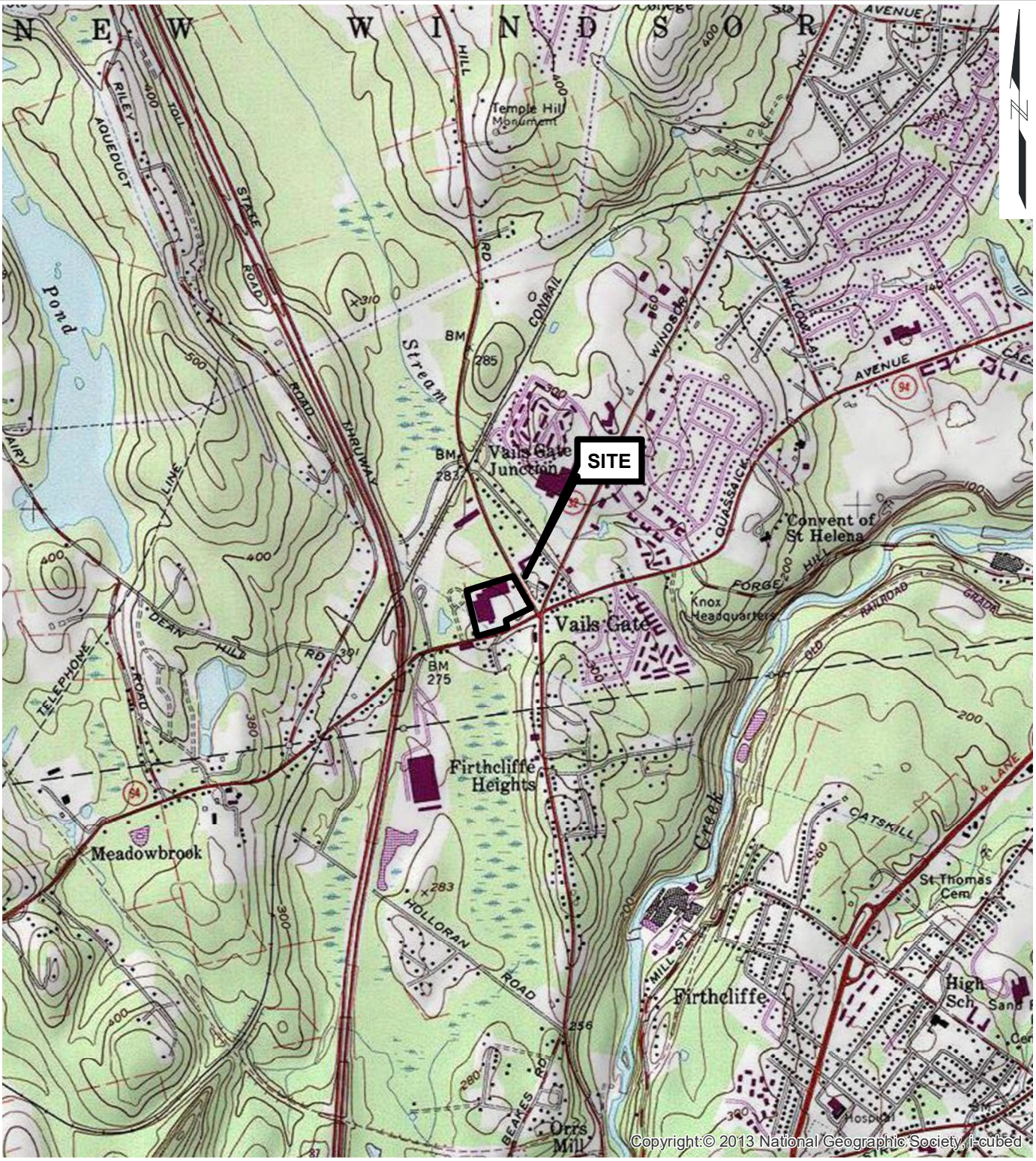
Figures

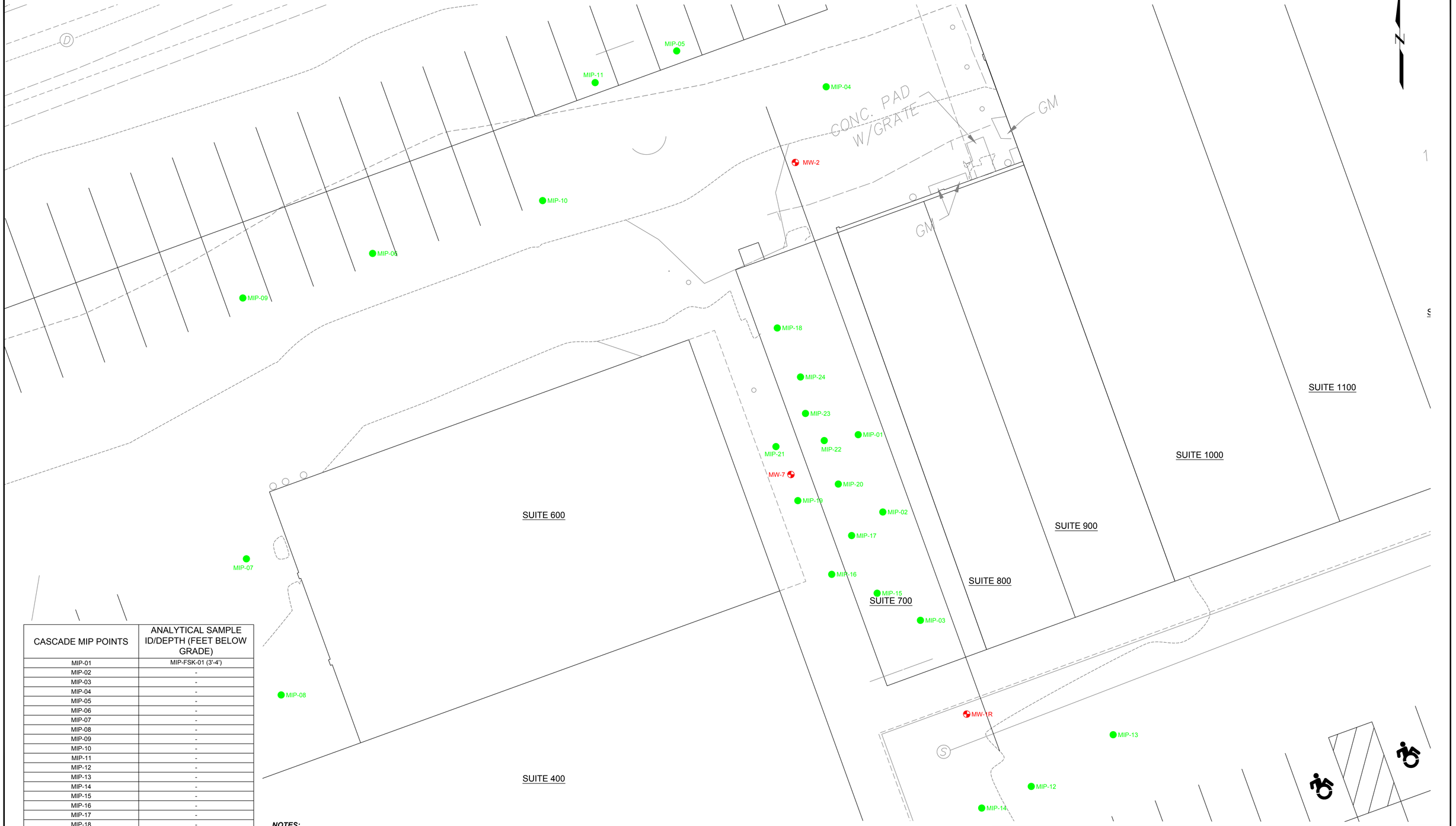


SOURCE:
1. USGS TOPOGRAPHIC MAP ACCESSED VIA ARCGIS ONLINE SERVICES.

0 2,000 4,000
SCALE: 1" = 2000'

Pre-Design Investigation Summary Report Former Safety Kleen Dry Cleaner 115 Temple Hill Road New Windsor, New York	GEI Consultants	SITE LOCATION MAP
The Rosen Group Claymont, Deleware	Project 1602600	August 2018 Fig. 1

J:\Projects\1602600 The Rosen Group\Former Safety Kleen Dry Cleaner\Site Location Map- IRM Workplan.mxd



CASCADE MIP POINTS	ANALYTICAL SAMPLE ID/DEPTH (FEET BELOW GRADE)
MIP-01	MIP-FSK-01 (3'-4')
MIP-02	-
MIP-03	-
MIP-04	-
MIP-05	-
MIP-06	-
MIP-07	-
MIP-08	-
MIP-09	-
MIP-10	-
MIP-11	-
MIP-12	-
MIP-13	-
MIP-14	-
MIP-15	-
MIP-16	-
MIP-17	-
MIP-18	-
MIP-19	MIP-FSK-19 (9'-10')
MIP-20	MIP-FSK-20 (5'-6')
MIP-21	-
MIP-22	-
MIP-23	-
MIP-24	-

NOTES:

1. GRAB SOIL SAMPLES WERE COLLECTED FROM MIP-FSK-01 (3-4FEET BELOW GRADE), MIP-FSK-19 (9-10 FEET BELOW GRADE), AND MIP-FSK-20 (5-6 FEET BELOW GRADE) FOR VOC ANALYSIS.

SOURCE:

1. PLAN BASED ON OVERALL SITE PLAN, PRICE CHOPPER PLAZA SITE PLANS PREPARED FOR V.G.R ASSOCIATES, LLC BY MASTER CONSULTING P.A. DATED SEPTEMBER 23, 2017.

0 10 20
SCALE: 1" = 10'

LEGEND:	
	APPROXIMATE MIP SAMPLE LOCATION
	APPROXIMATE MONITORING WELL LOCATION

MIP Investigation Report
115 Temple Hill Road
New Windsor, New York

The Rosen Group
Claymont, Delaware

GEI Consultants

Project 1602600

APPROXIMATE MIP DELINEATION POINTS

August 2018 Fig. 2

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Attachment 1

Final Data Package for Membrane Interface Probe Services

Site Location: 115 Temple Hill Road, New Windsor, New York

Project Number: 203181157

Report Date: August 2nd, 2018

Prepared for:
GEI Consultants, Inc..
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455 Winding Brook Drive, Suite 201
Glastonbury, Connecticut 06033
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Table of Contents

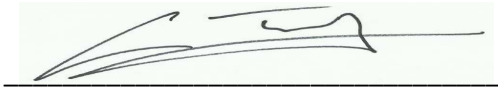
Project Narrative

Cascade Technical Services (Cascade) is pleased to present this data report to GEI Consultants, Inc. for the membrane interface probe (MIP) services that were provided between the dates of July 23rd and July 26th, 2018 at your site located at 115 Temple Hill Road, New Windsor, NY.

The results associated with the data and plots presented in this report were generated in accordance to Cascade's and Geoprobe's Standard Operating Procedures (SOPs) for MIP services.

All field work and data management were completed by trained, scientific professionals and all quality assurance/quality control (QA/QC) measurements associated with these data were found to be within the tolerances set forth in the SOPs for these services. Response tests conducted previous to, and subsequent to the MIP borings were found to be within the tolerances set forth for this MIP survey and therefore the data are deemed acceptable for use. Exception/deviations regarding these response tests and the related data are noted on the MIP Summary Table that is part of this report. This report contains a set of plots for each of the MIP locations.

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

Signature: 

Charles Terry, Eastern Field Supervisor of Site Characterization Services

Project Site Map and MIP Locations

Approximate boring locations are provided below. Field staff estimated boring locations using reference points observed on site in relation to the same reference points visible in Google Earth map software.

Membrane Interface Probe Data Summary Table

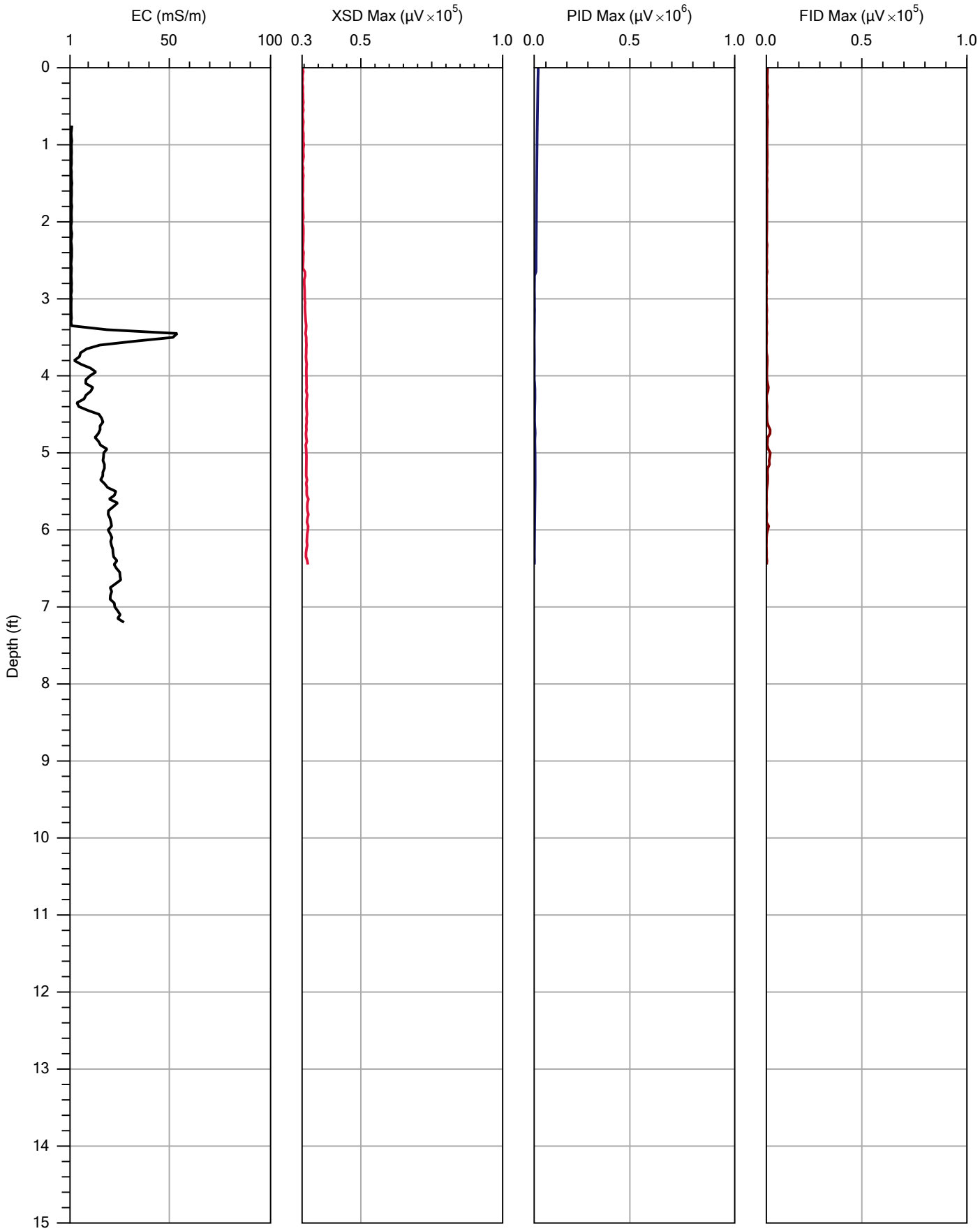
Provided below is a summary of MIP information.

*Acceptable values for ECD, PID, and XSD detectors are 50mV

MIP Boring	Date	Time	Total Depth (feet)	MIP Notes
MIP01	July 23, 2018	09:39	6.45	None
MIP02	July 23, 2018	10:20	7.50	None
MIP03	July 23, 2018	10:47	6.75	None
MIP04	July 23, 2018	11:26	16.40	None
MIP05	July 23, 2018	14:35	7.35	None
MIP06	July 24, 2018	09:33	19.60	None
MIP07	July 24, 2018	10:32	8.20	None
MIP08	July 24, 2018	11:08	10.15	None
MIP09	July 24, 2018	13:00	8.40	None
MIP10	July 24, 2018	13:29	8.30	None
MIP11	July 24, 2018	14:30	10.35	None
MIP12	July 25, 2018	08:24	4.75	None
MIP13	July 25, 2018	08:58	6.75	None
MIP14	July 25, 2018	09:24	6.40	None
MIP15	July 25, 2018	10:51	8.45	None

MIP16	**July 25, 2018**	**11:24**	**7.95**	**None**
MIP17	**July 25, 2018**	**13:03**	**8.55**	**None**
MIP18	**July 25, 2018**	**13:57**	**8.55**	**None**
MIP19	**July 25, 2018**	**08:18**	**8.80**	**None**
MIP20	**July26, 2018**	**08:57**	**9.90**	**None**
MIP21	**July26, 2018**	**09:36**	**7.65**	**None**
MIP22	**July26, 2018**	**10:21**	**9.85**	**None**
MIP23	**July26, 2018**	**11:03**	**6.90**	**None**
MIP24	**July26, 2018**	**11:39**	**8.60**	**None**

Membrane Interface Probe Data Plots



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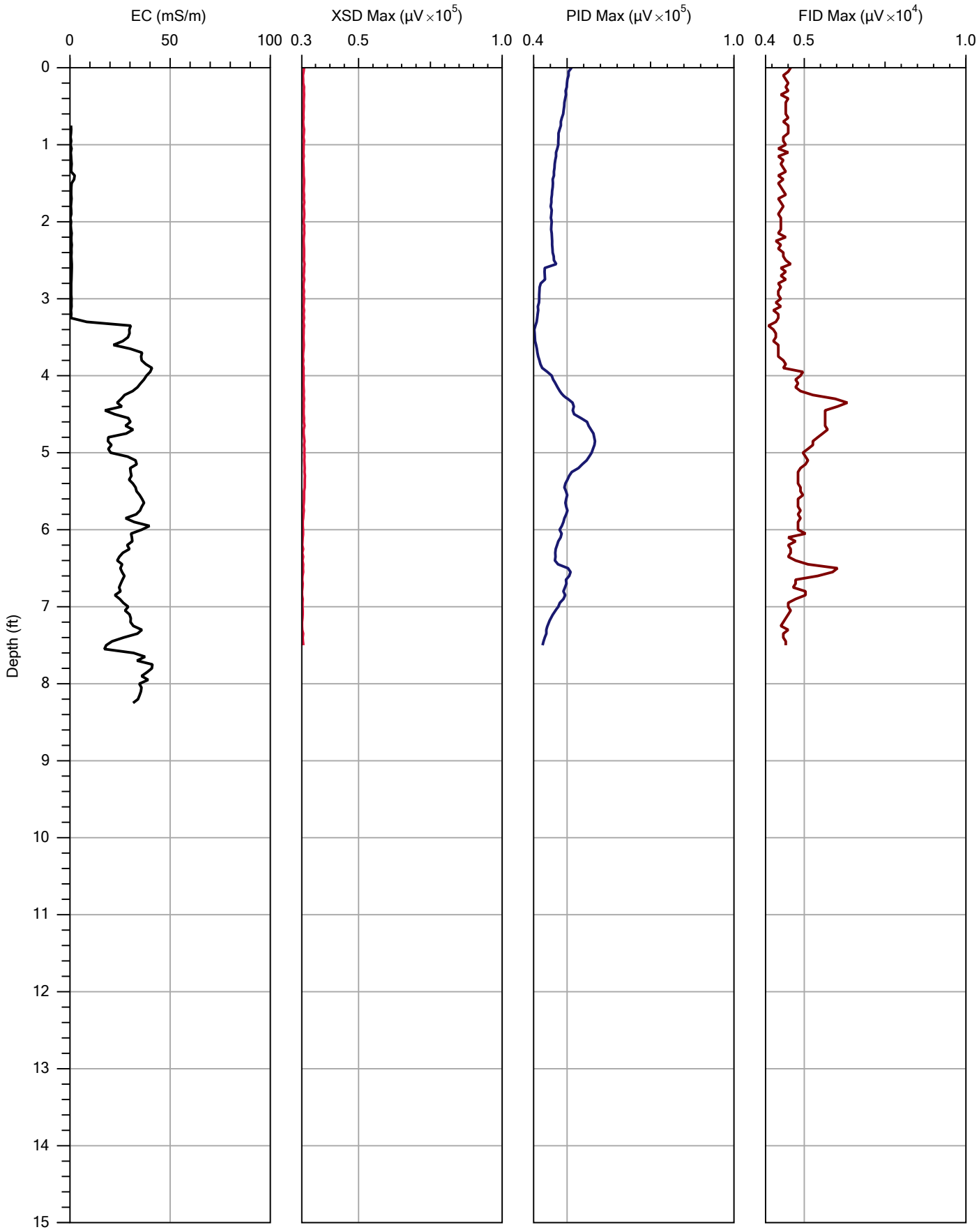
SAMPLE LOCATION: MIP-FSK-01 (3-4 ft bgs)

Company: CASCADE TECHNICAL SERVICES	Operator: ZF	File: MIP-01.MIP
Project ID: 203181157	Client: GEI	Date: 07/23/18
		Location: new windsor ny



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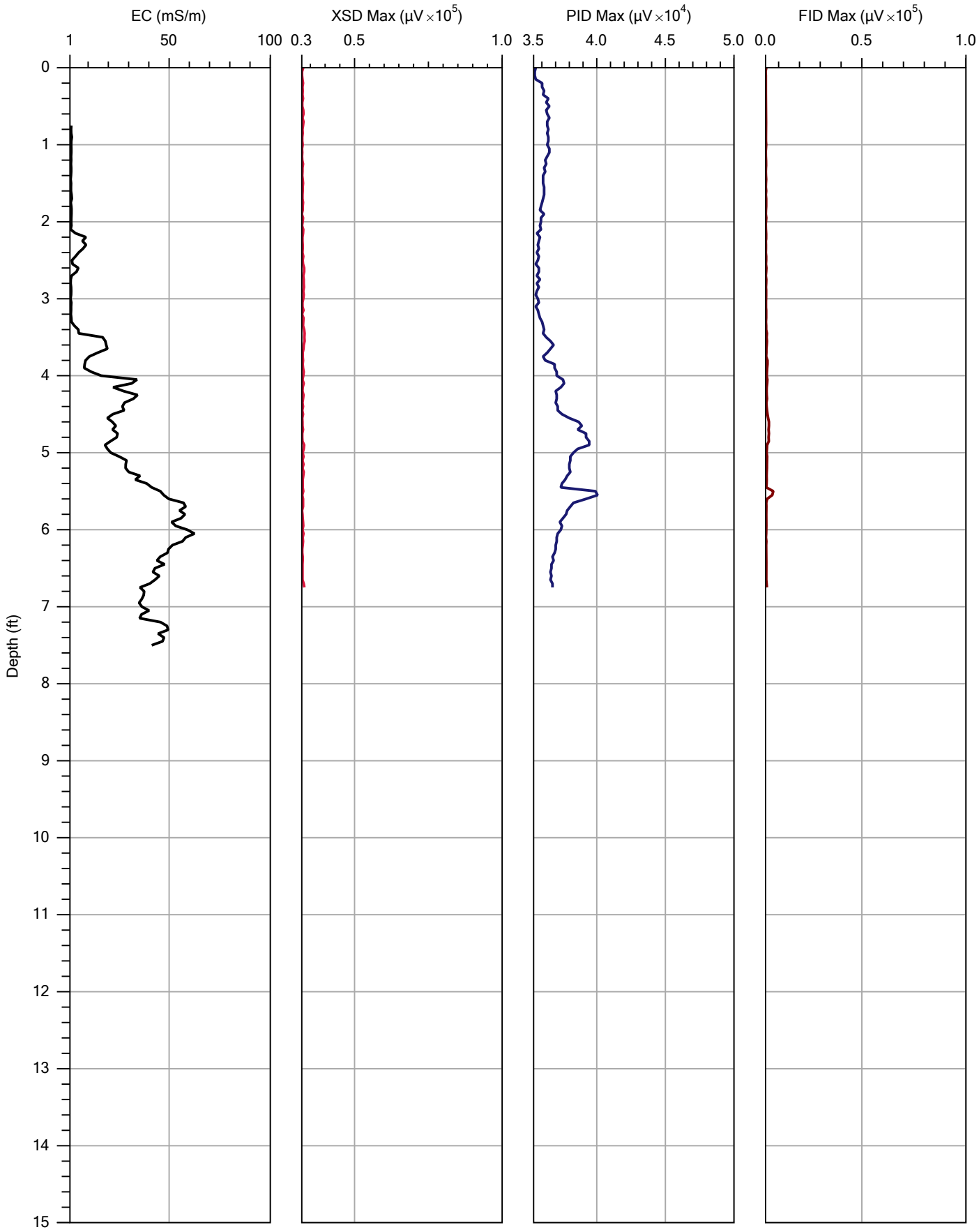
Project ID:	Client: gei	Location: new windsor ny



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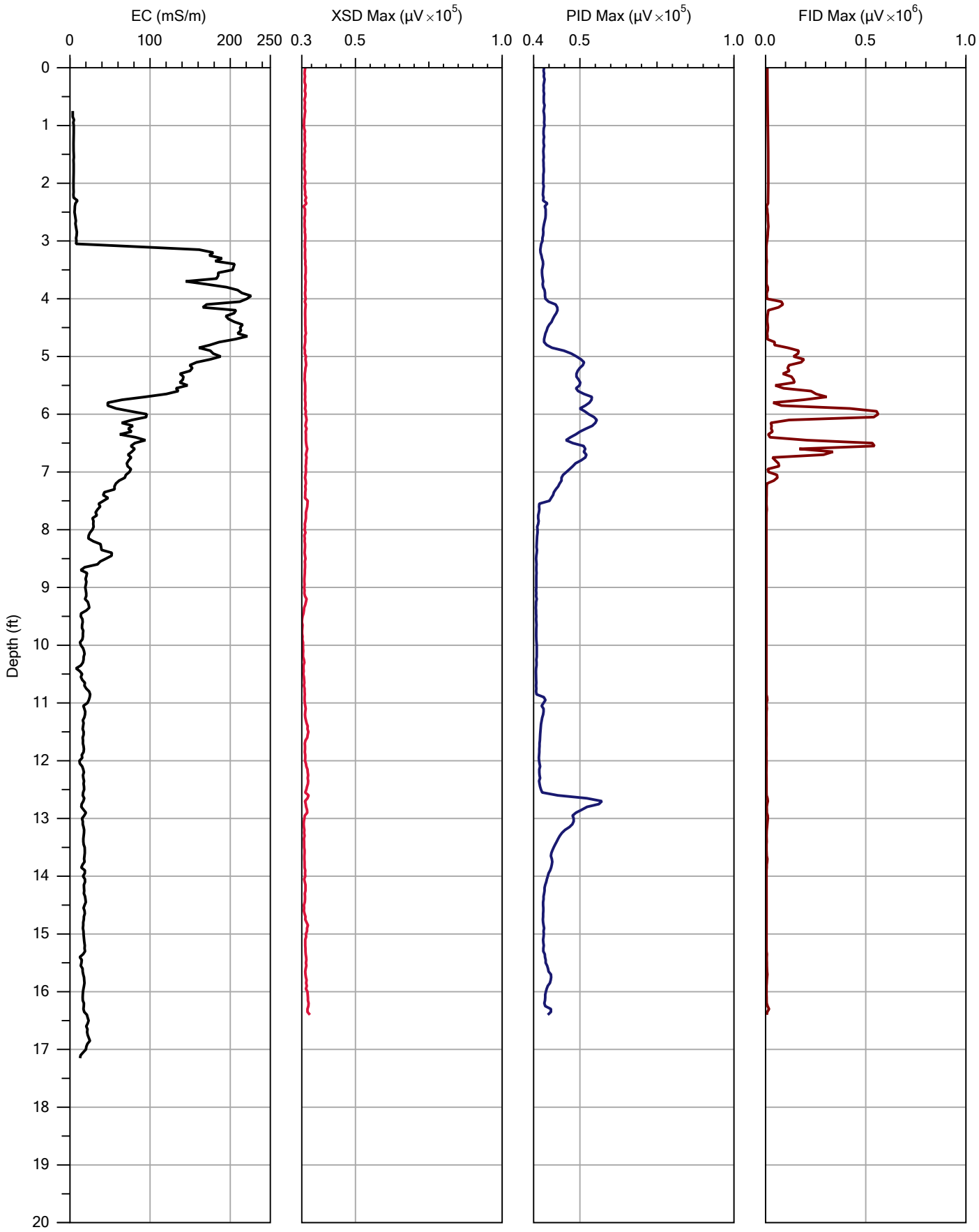
Project ID:	Client: gei	Location: new windsor ny



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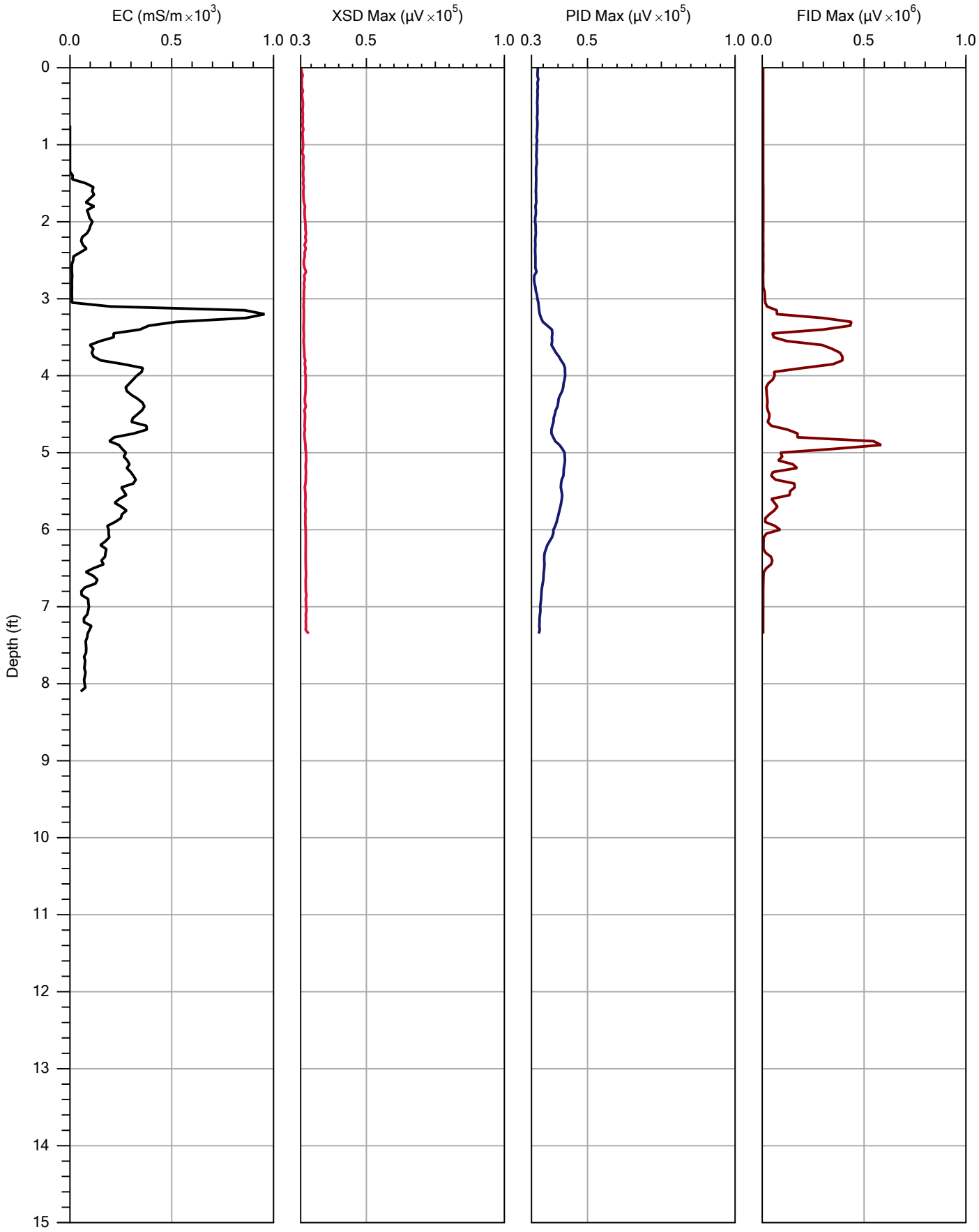
Project ID: 203181157	Client: GEI	Location: new windsor ny



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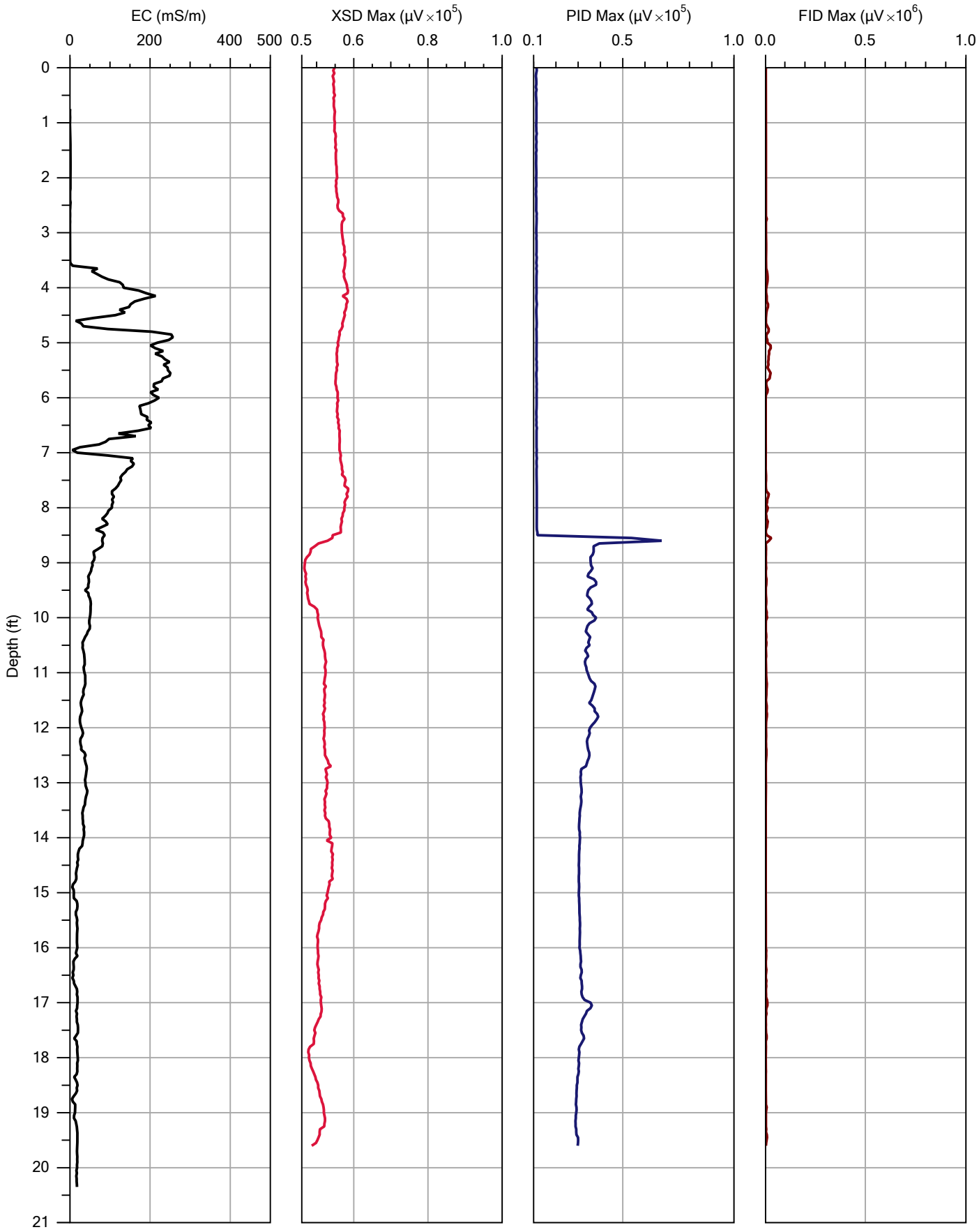
Project ID: 203181157	Client: GEI	Location:



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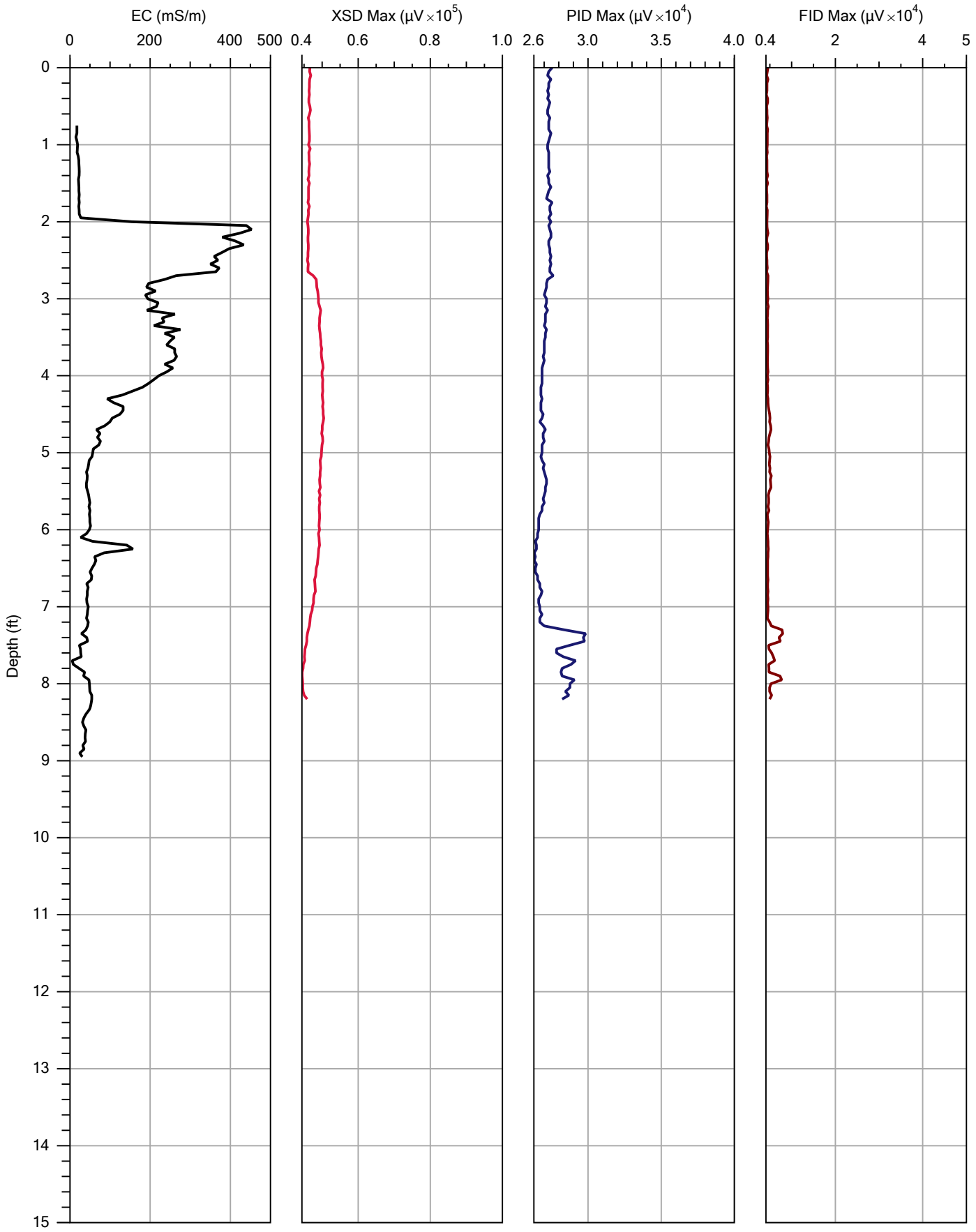
Project ID: 203181157	Client: GEI	Location: new windsor ny



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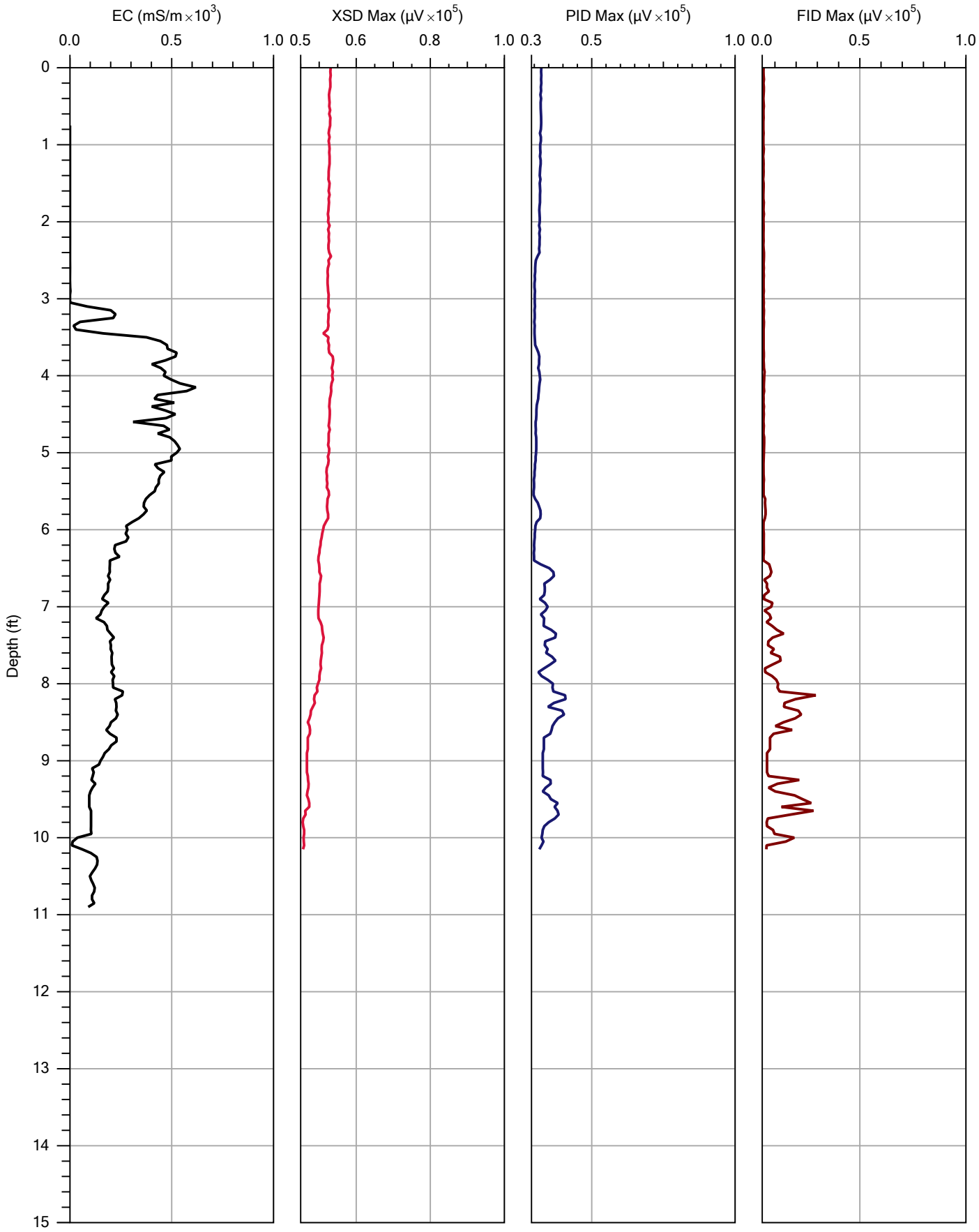
Project ID: 203181157	Client: GEI	Location: new windsor ny



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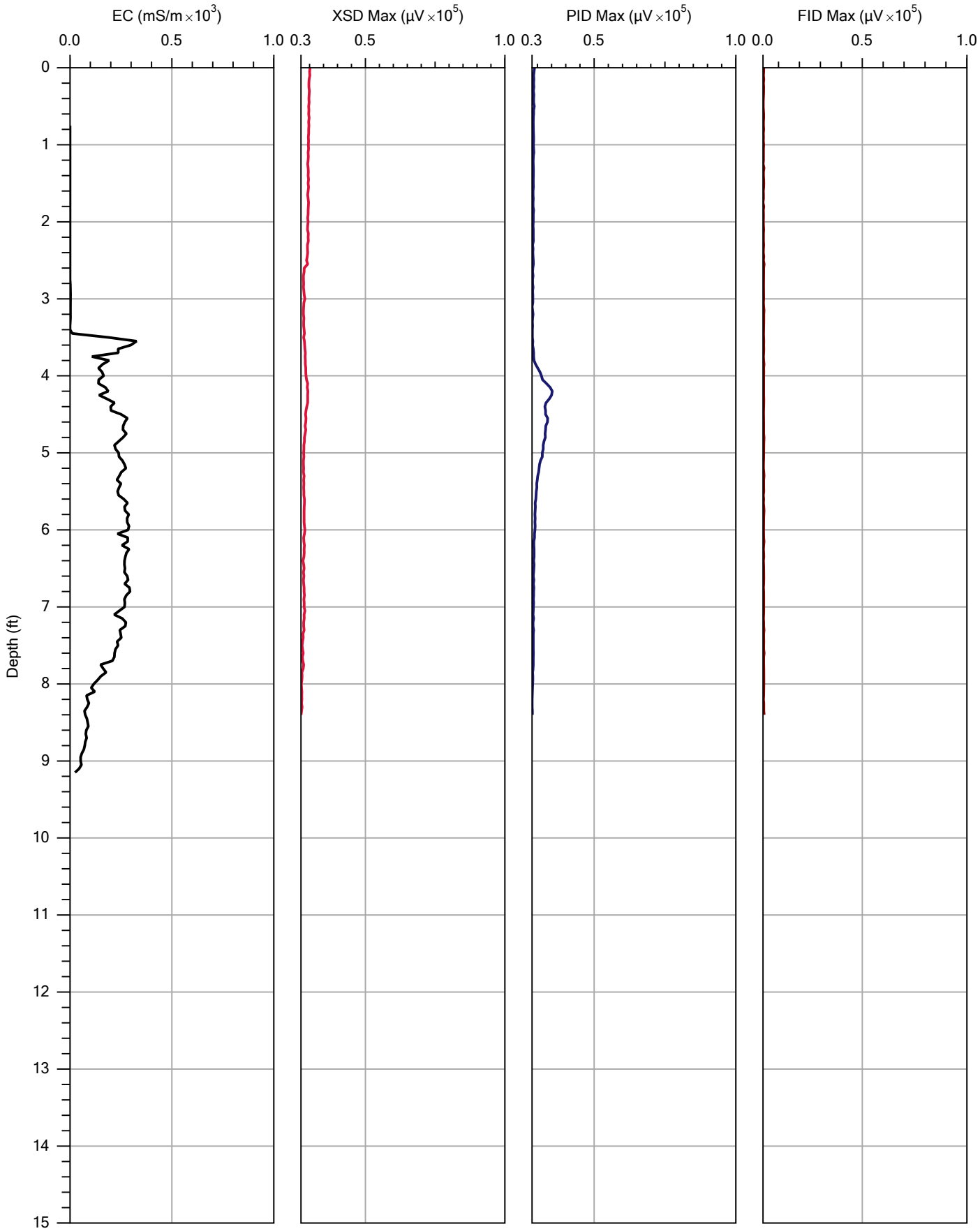
Project ID:	Client: gei	Location: new windsor ny



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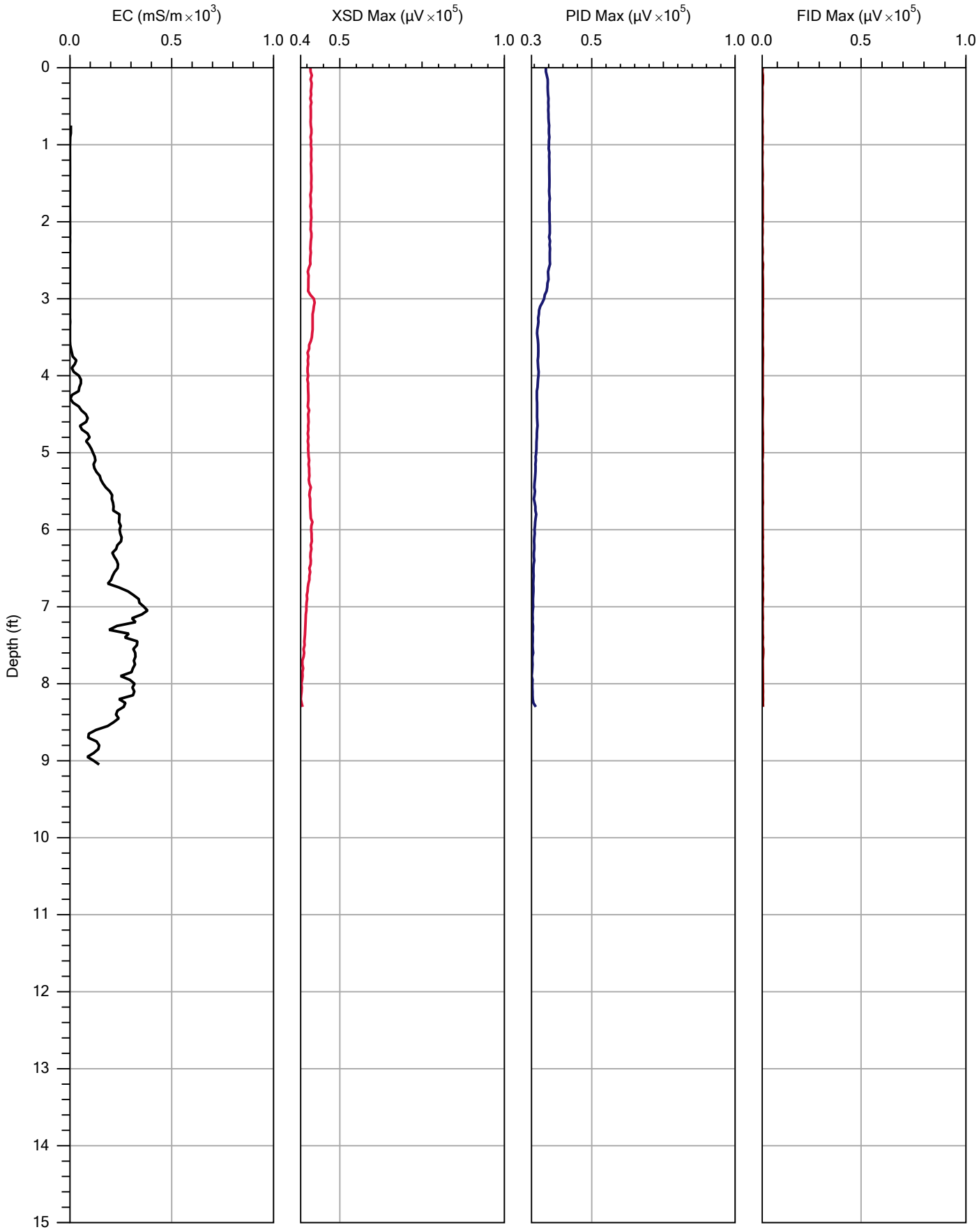
Project ID: 203181157	Client: GEI	Location: new windsor ny



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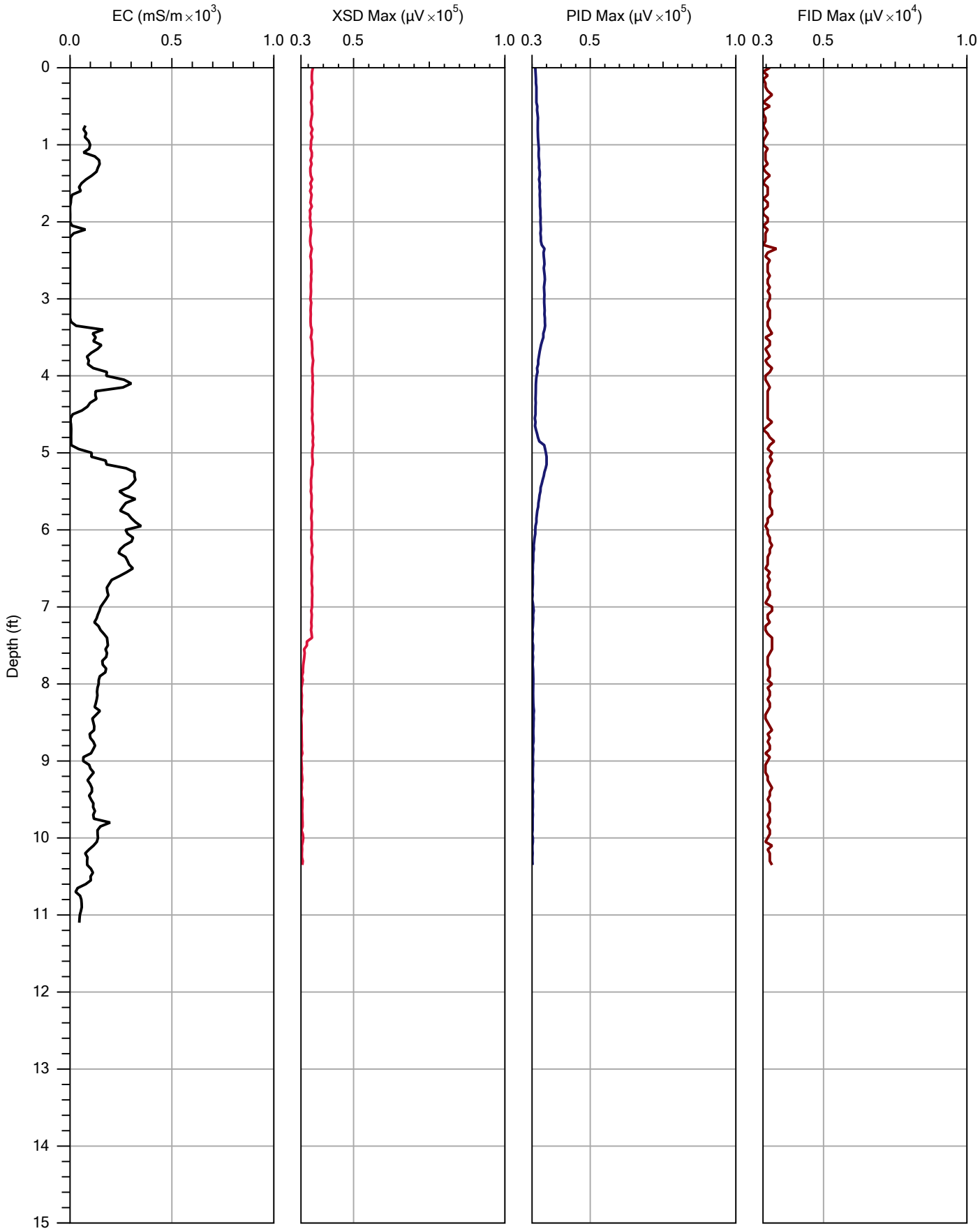
Project ID: 203181157	Client: GEI	Location: new windsor ny



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EXCELLENCE ON EVERY LEVEL™

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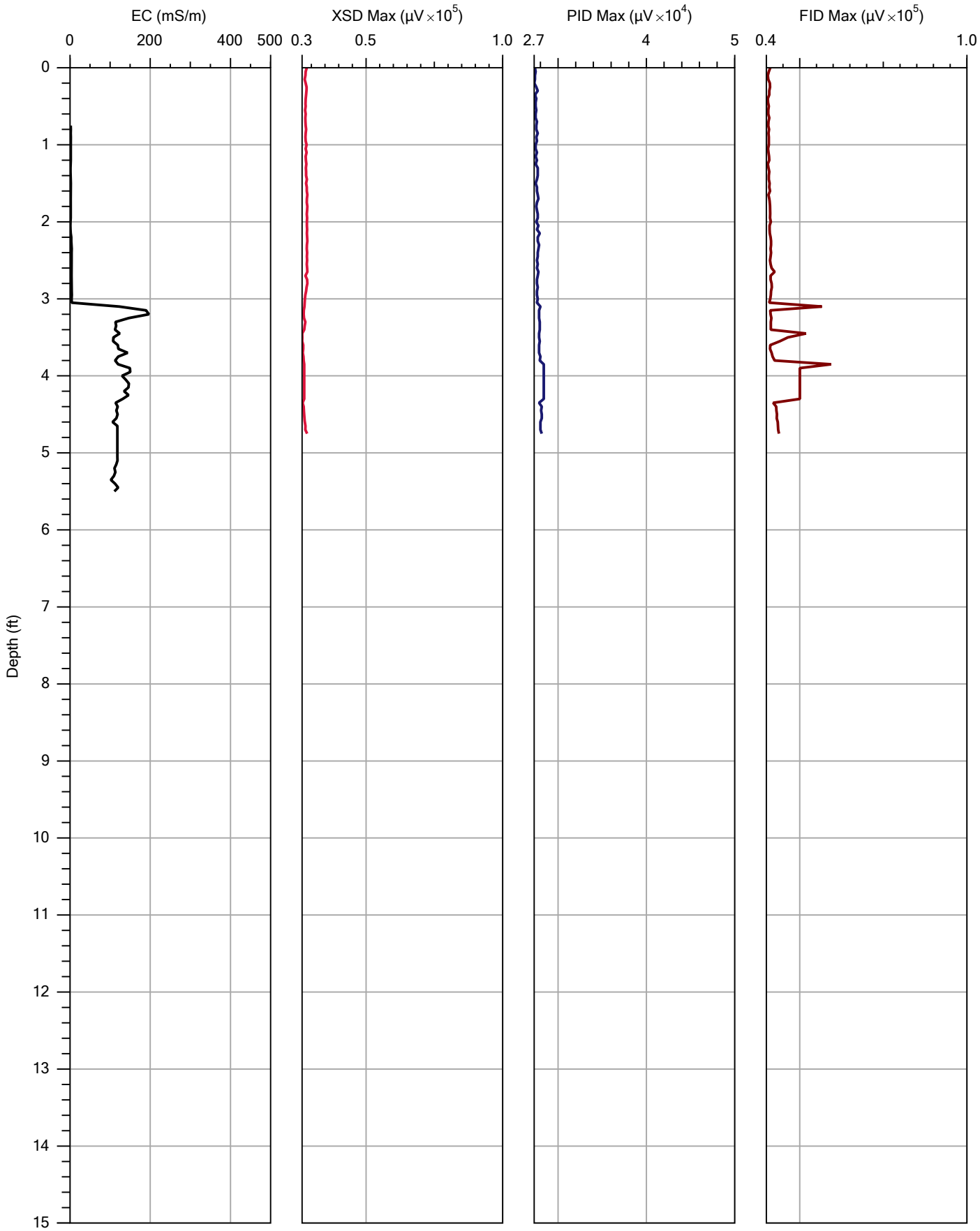
Project ID: 203181157	Client: GEI	Location: new windsor ny



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DRILLING | TECHNICAL SERVICES
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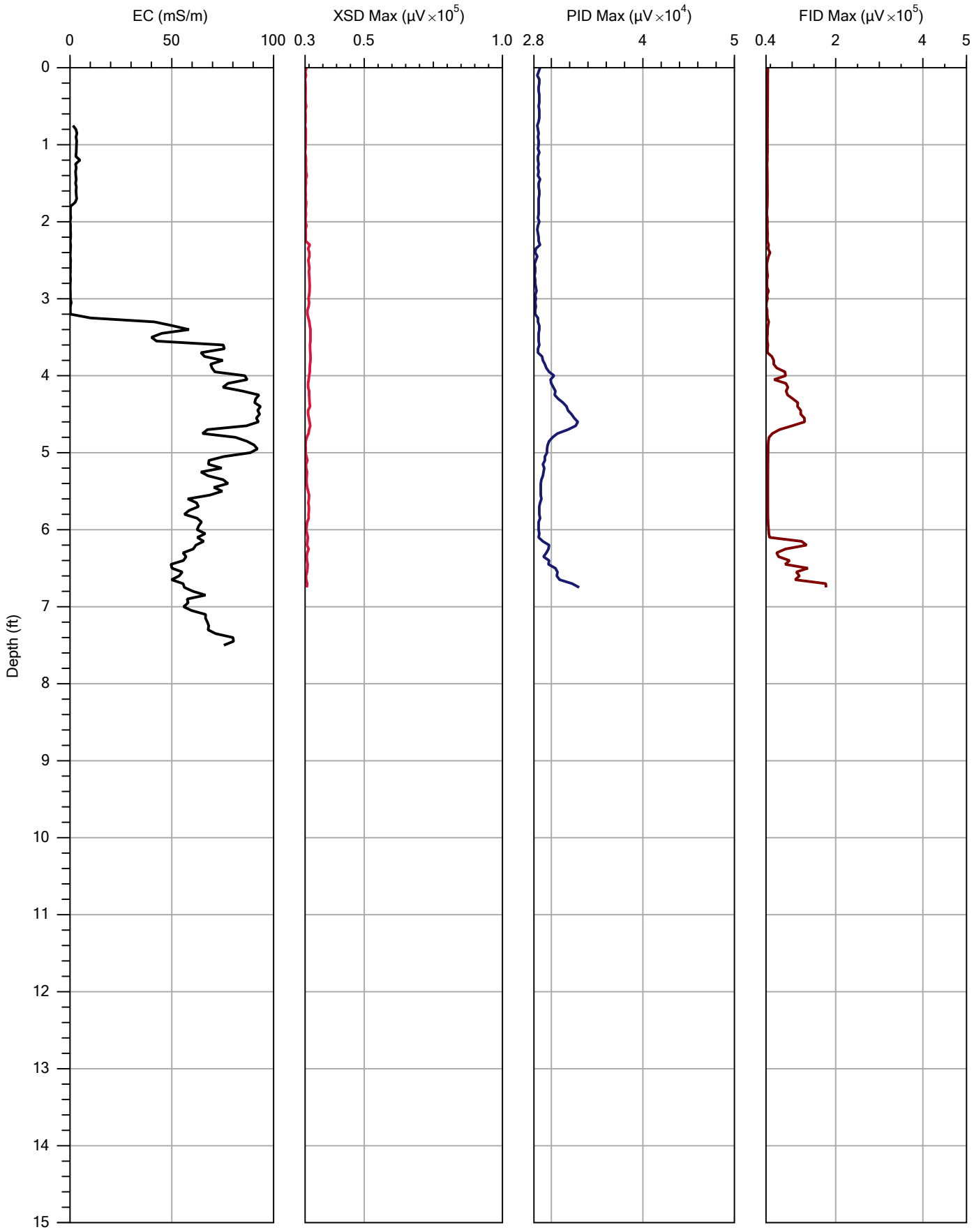
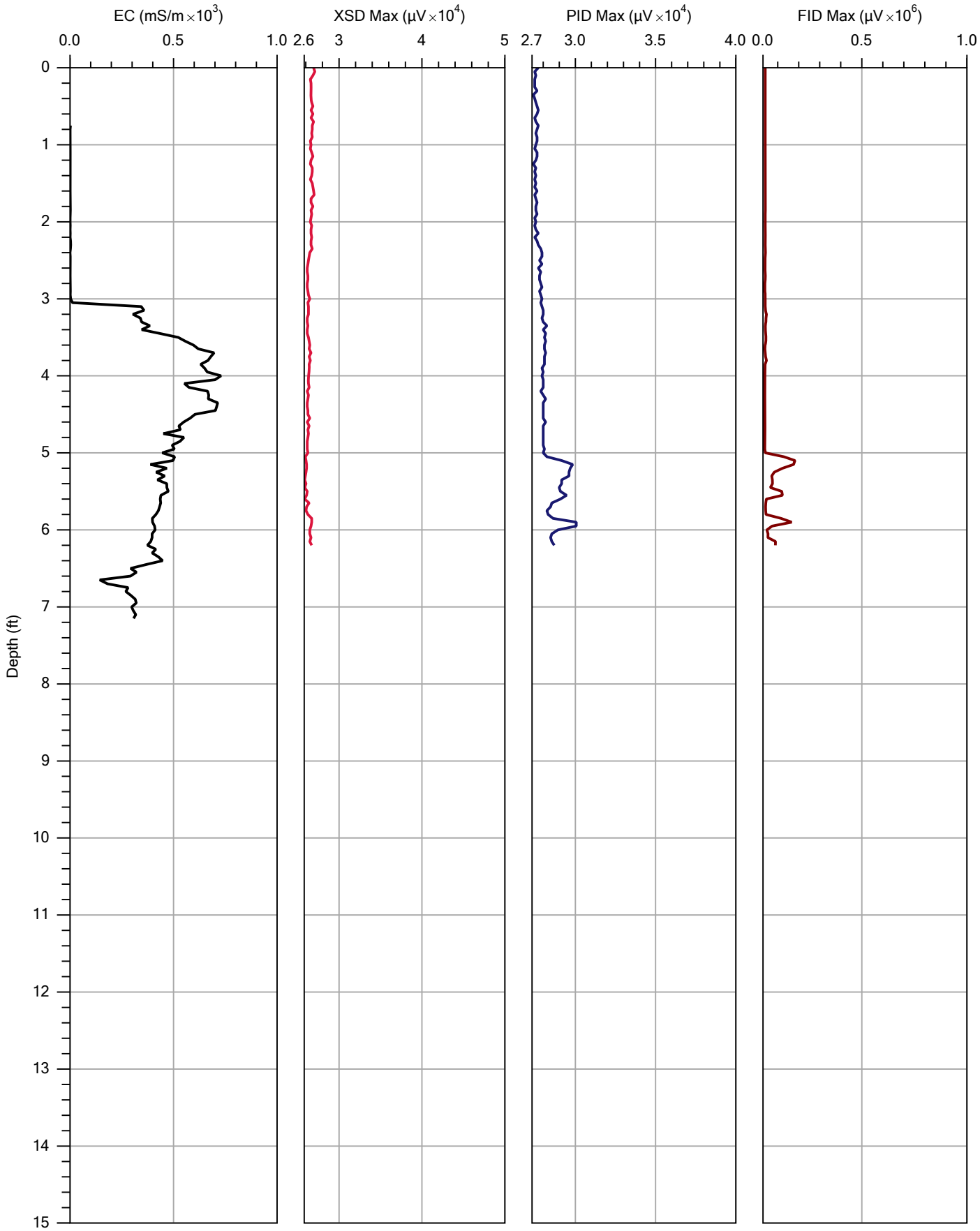
		File: MIP-12.MIP
Company: CASCADE TECHNICAL SERVICES	Operator: Z FORDLEY	Date: 07/25/18
Project ID:	Client: gei	Location: new windsor ny



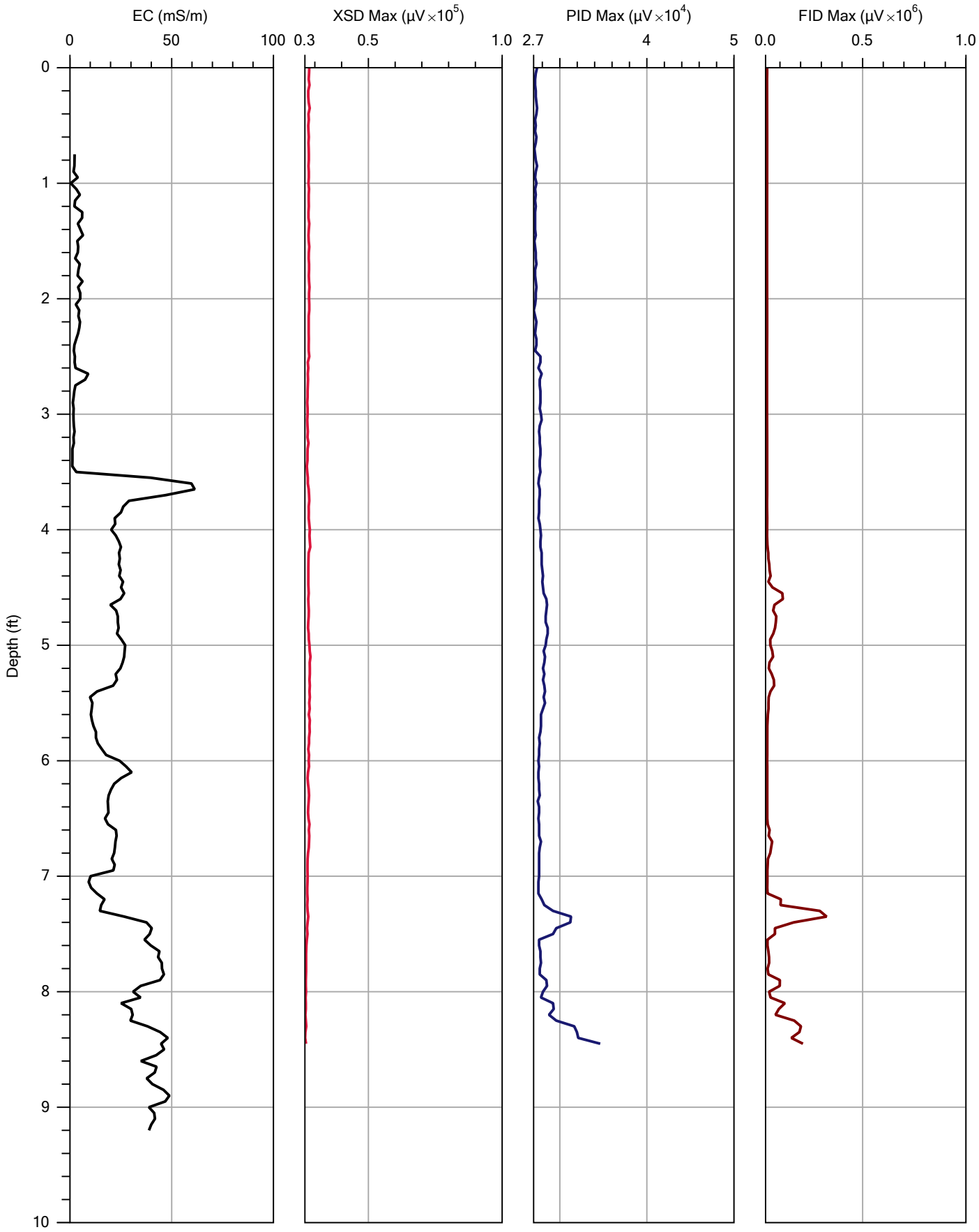
CASCADE
DRILLING | TECHNICAL SERVICES
EXCELLENCE ON EVERY LEVEL™

		File: MIP-13.MIP
Company: CASCADE TECHNICAL SERVICES	Operator: ZF	Date: 07/25/18
Project ID: 203181157	Client: GEI	Location: new windsor ny



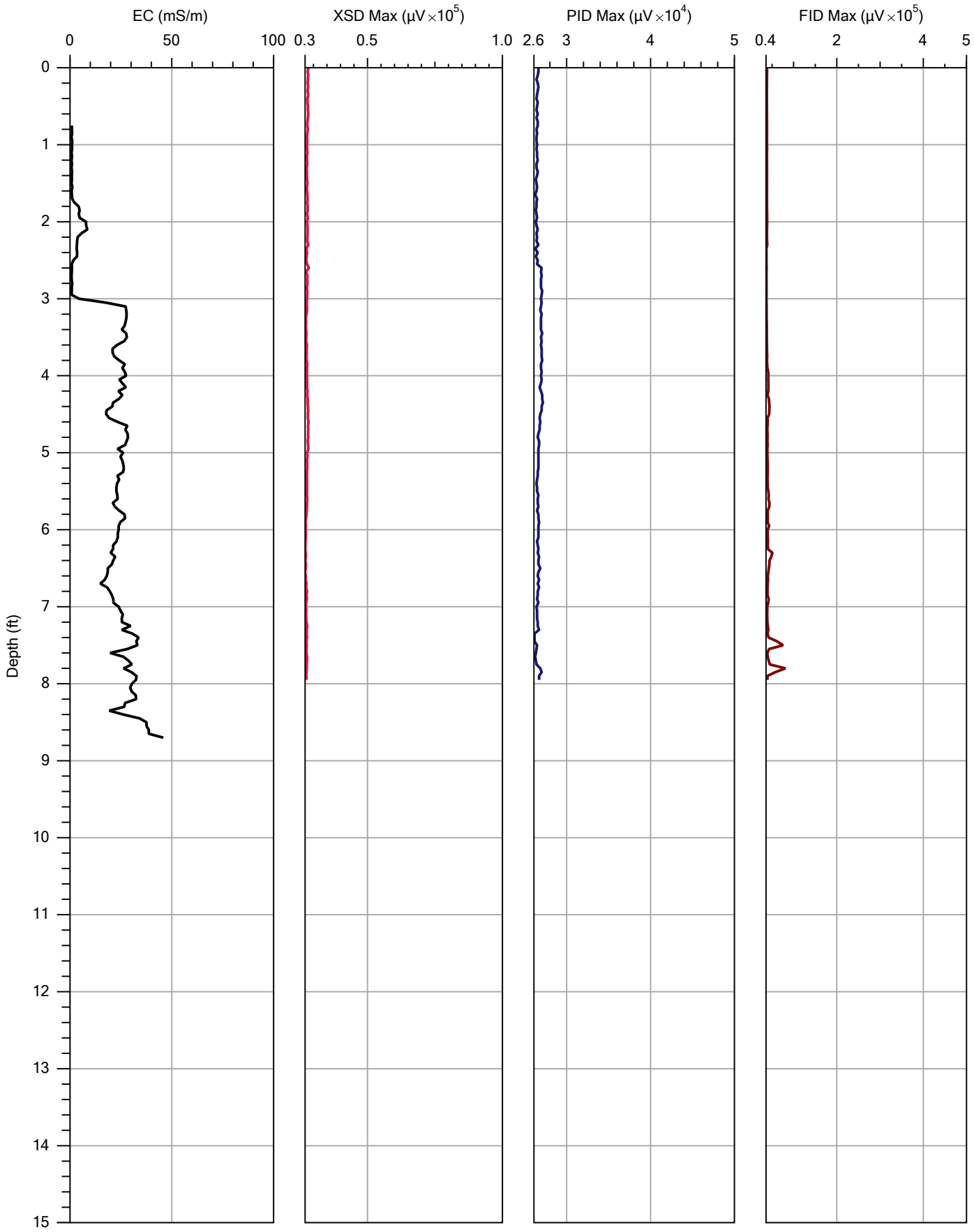
CASCADE
DRILLING | TECHNICAL SERVICES
EXCELLENCE ON EVERY LEVEL™

		File: MIP-14.MIP
Company: CASCADE TECHNICAL SERVICES	Operator: ZF	Date: 07/25/18
Project ID: 203181157	Client: GEI	Location: new windsor ny



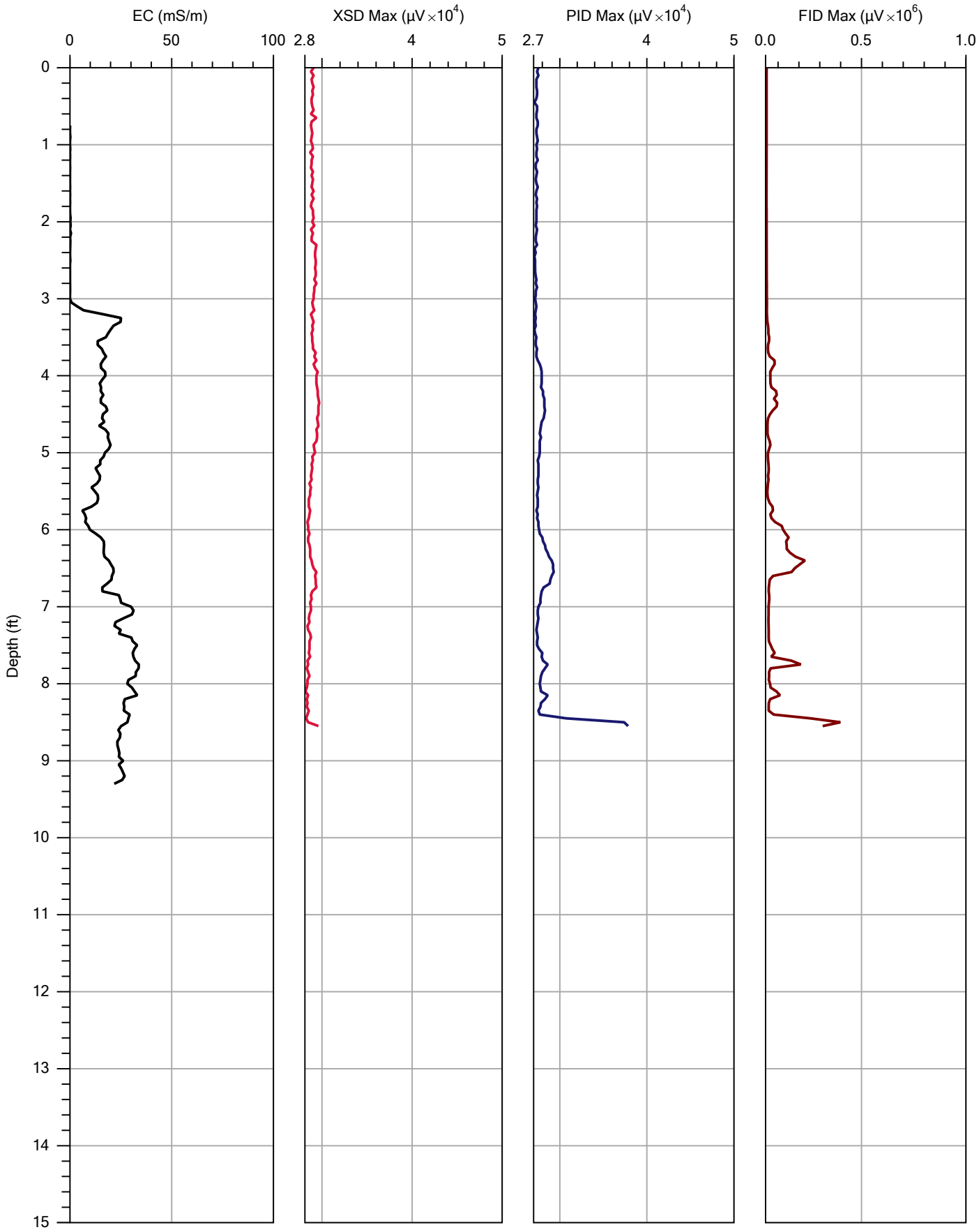
CASCADE
DRILLING | TECHNICAL SERVICES
EXCELLENCE ON EVERY LEVEL™

		File: MIP-15.MIP
Company: CASCADE TECHNICAL SERVICES	Operator: ZF	Date: 07/25/18
Project ID: 203181157	Client: GEI	Location: new windsor ny



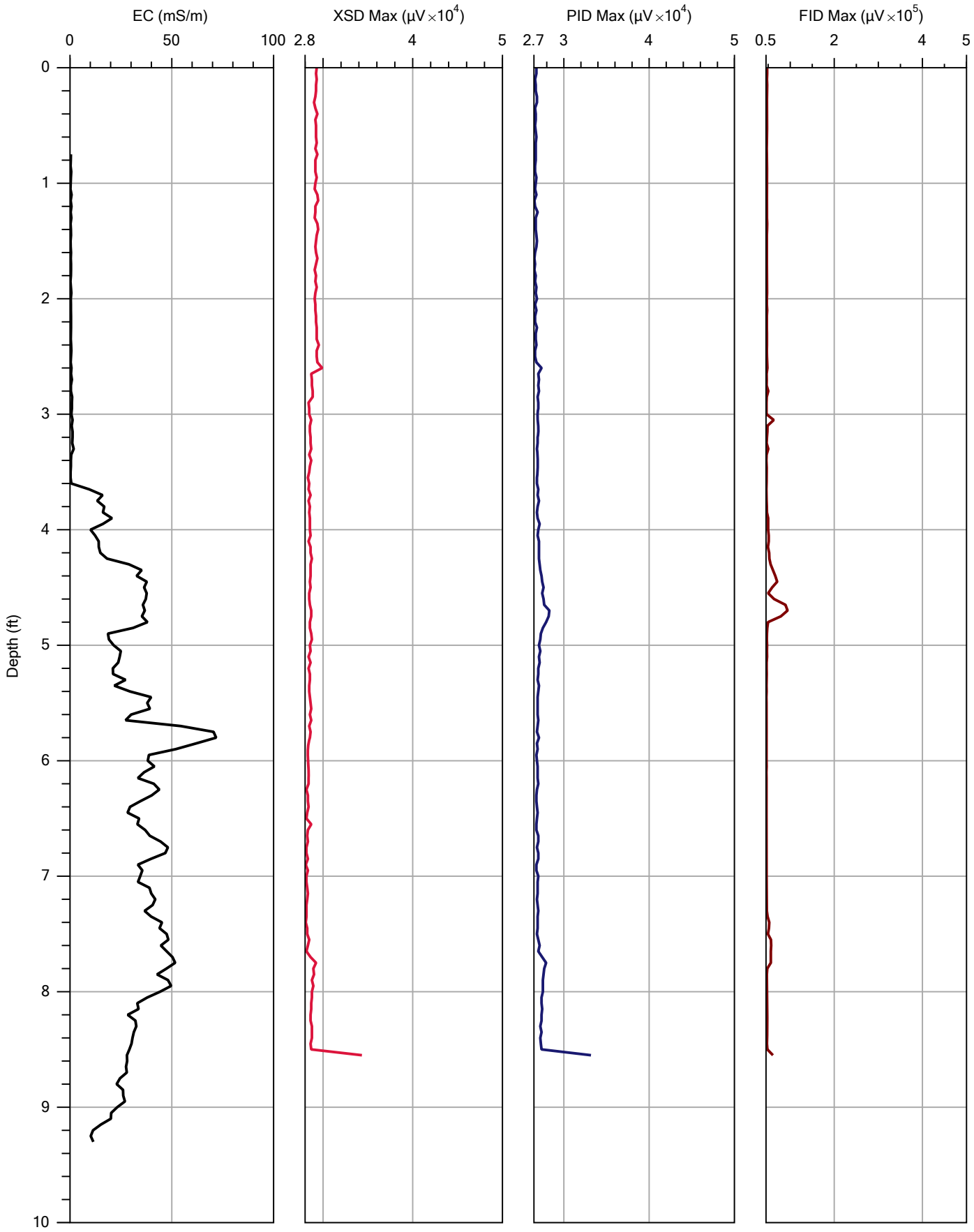
CASCADE
DRILLING | TECHNICAL SERVICES
EXCELLENCE ON EVERY LEVEL™

		File: MIP-16.MIP
Company: CASCADE TECHNICAL SERVICES	Operator: ZF	Date: 07/25/18
Project ID: 203181157	Client: GEI	Location: new windsor ny



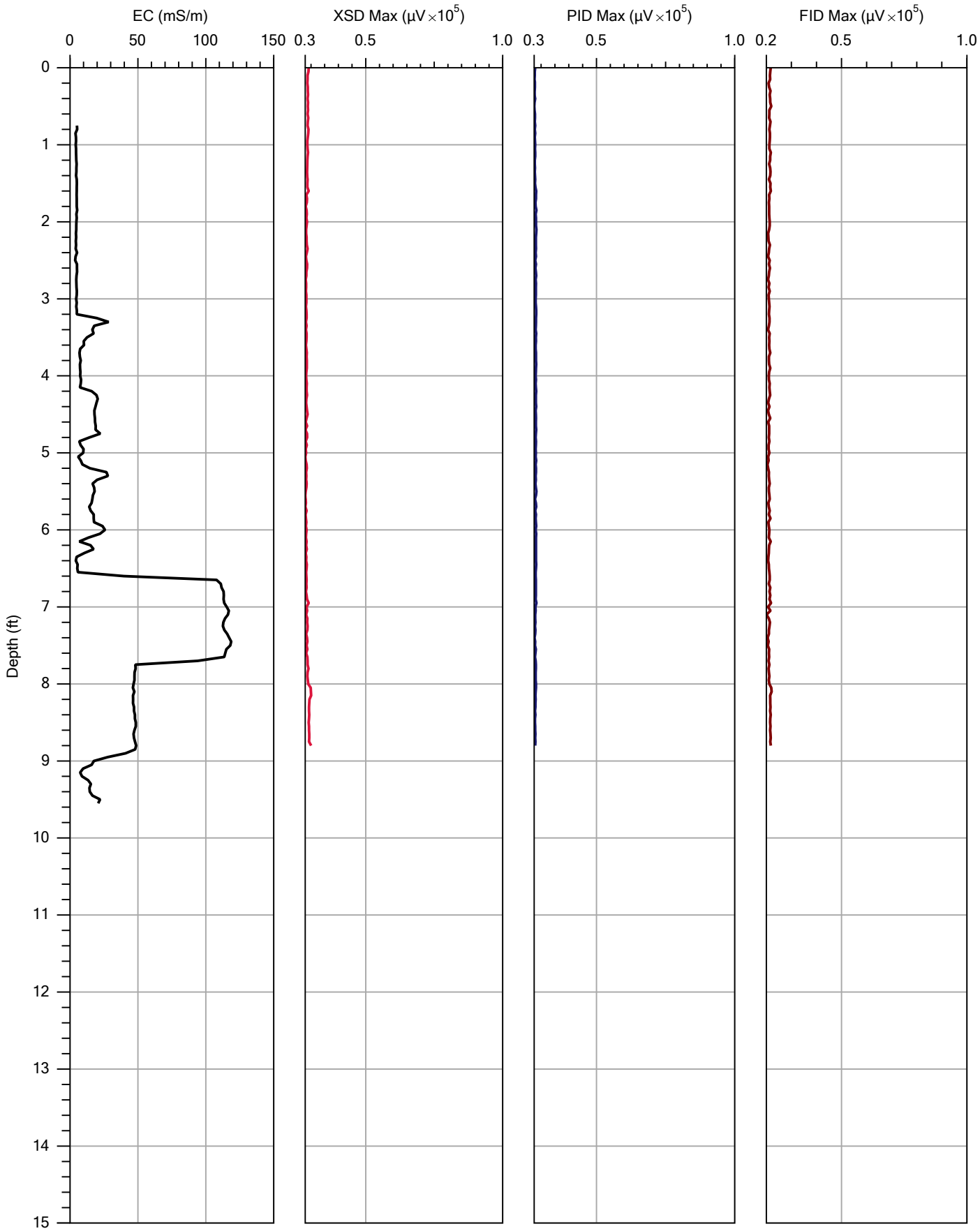
CASCADE
DRILLING | TECHNICAL SERVICES
EXCELLENCE ON EVERY LEVEL™

		File: MIP-17.MIP
Company: CASCADE TECHNICAL SERVICES	Operator: ZF	Date: 07/25/18
Project ID: 203181157	Client: GEI	Location: new windsor ny



CASCADE
DRILLING | TECHNICAL SERVICES
EXCELLENCE ON EVERY LEVEL™

		File: MIP-18.MIP
Company: CASCADE TECHNICAL SERVICES	Operator: ZF	Date: 07/25/18
Project ID: 203181157	Client: GEI	Location: new windsor ny



CASCADE
DRILLING | TECHNICAL SERVICES
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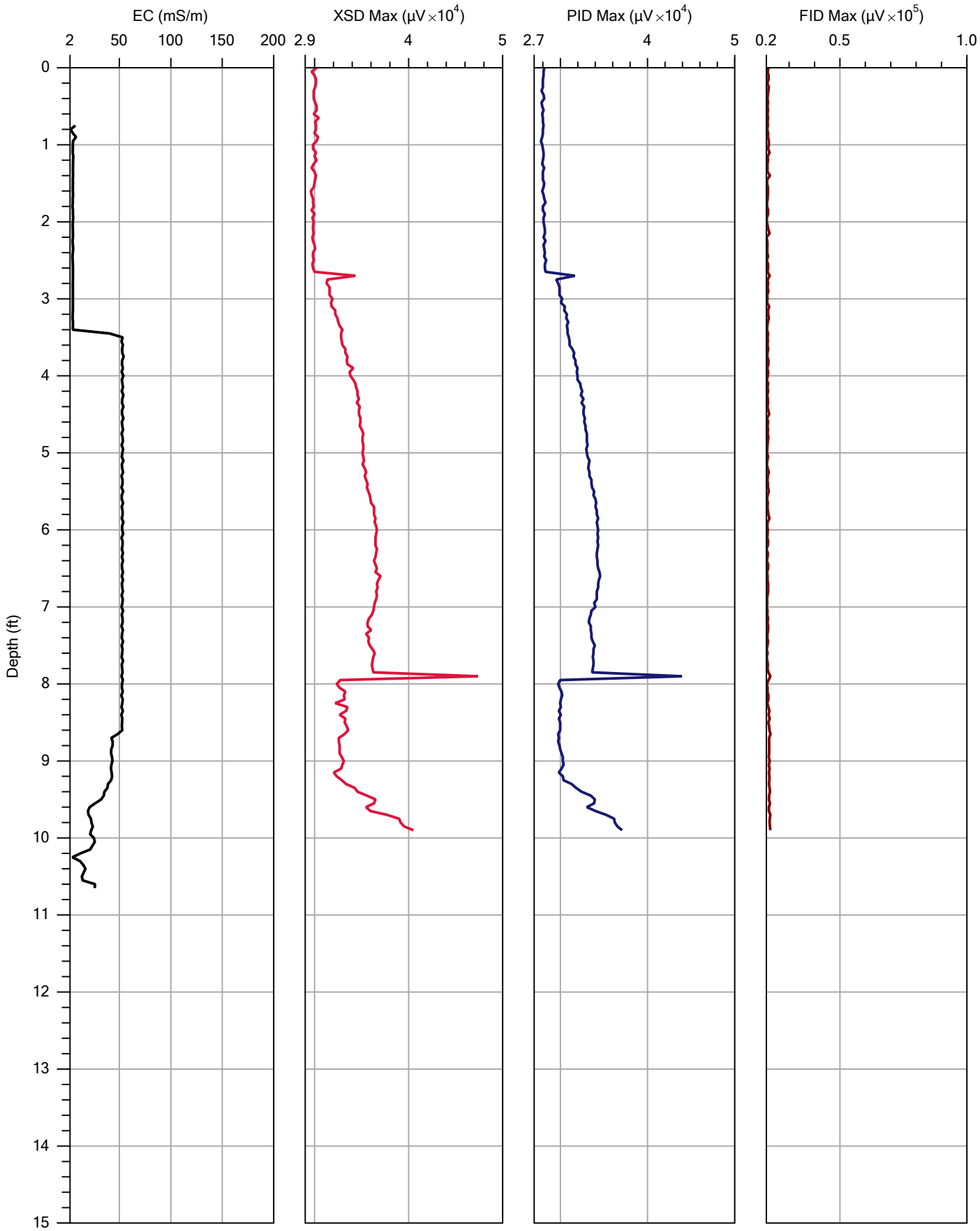
SAMPLE LOCATION: MIP-FSK-19 (9-10 ft bgs)

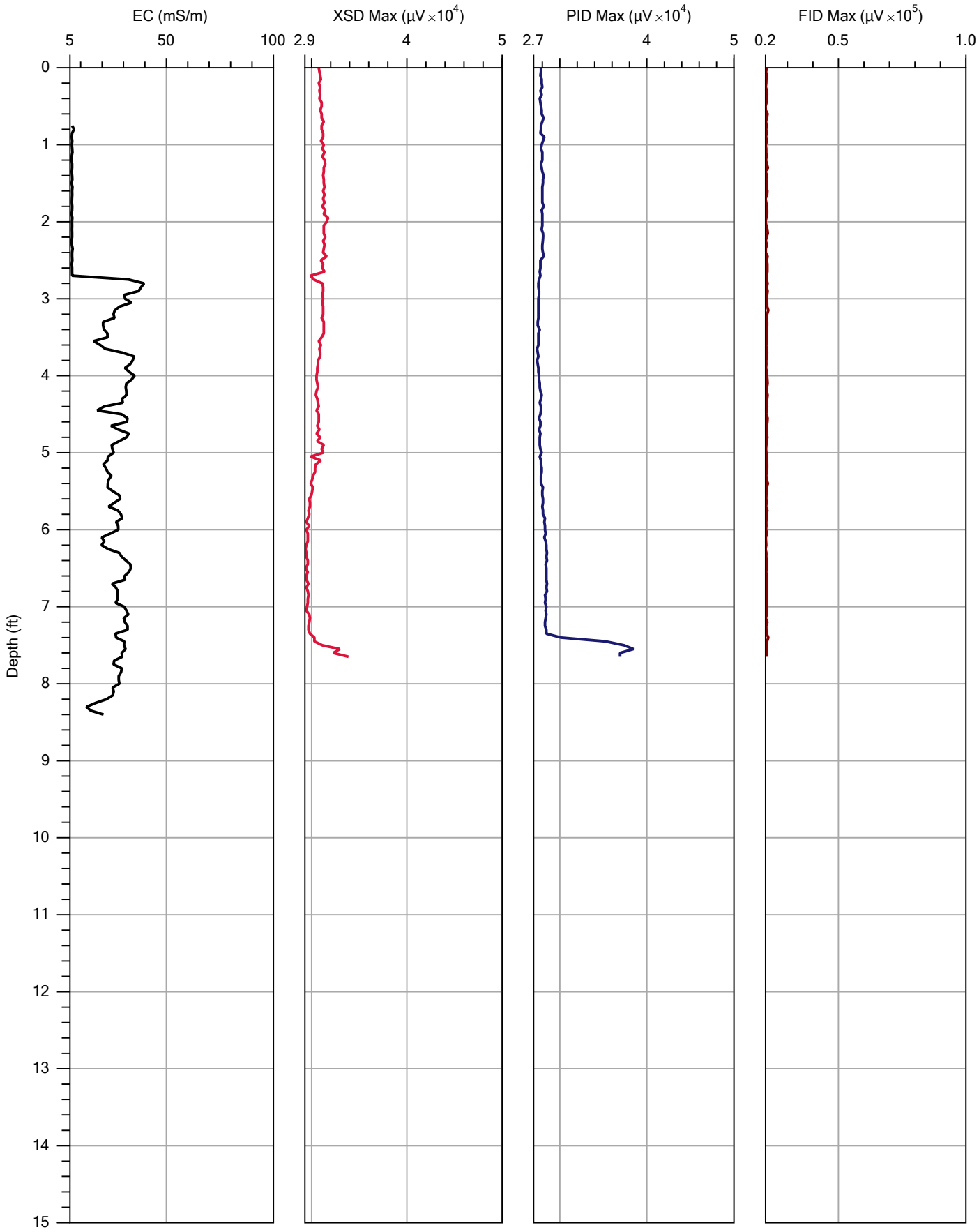
		File: MIP-19.MIP
Company: CASCADE TECHNICAL SERVICES	Operator: ZF	Date: 07/26/18
Project ID: 203181157	Client: GEI	Location: new windsor ny



CASCADE
DRILLING | TECHNICAL SERVICES
EXCELLENCE ON EVERY LEVEL™

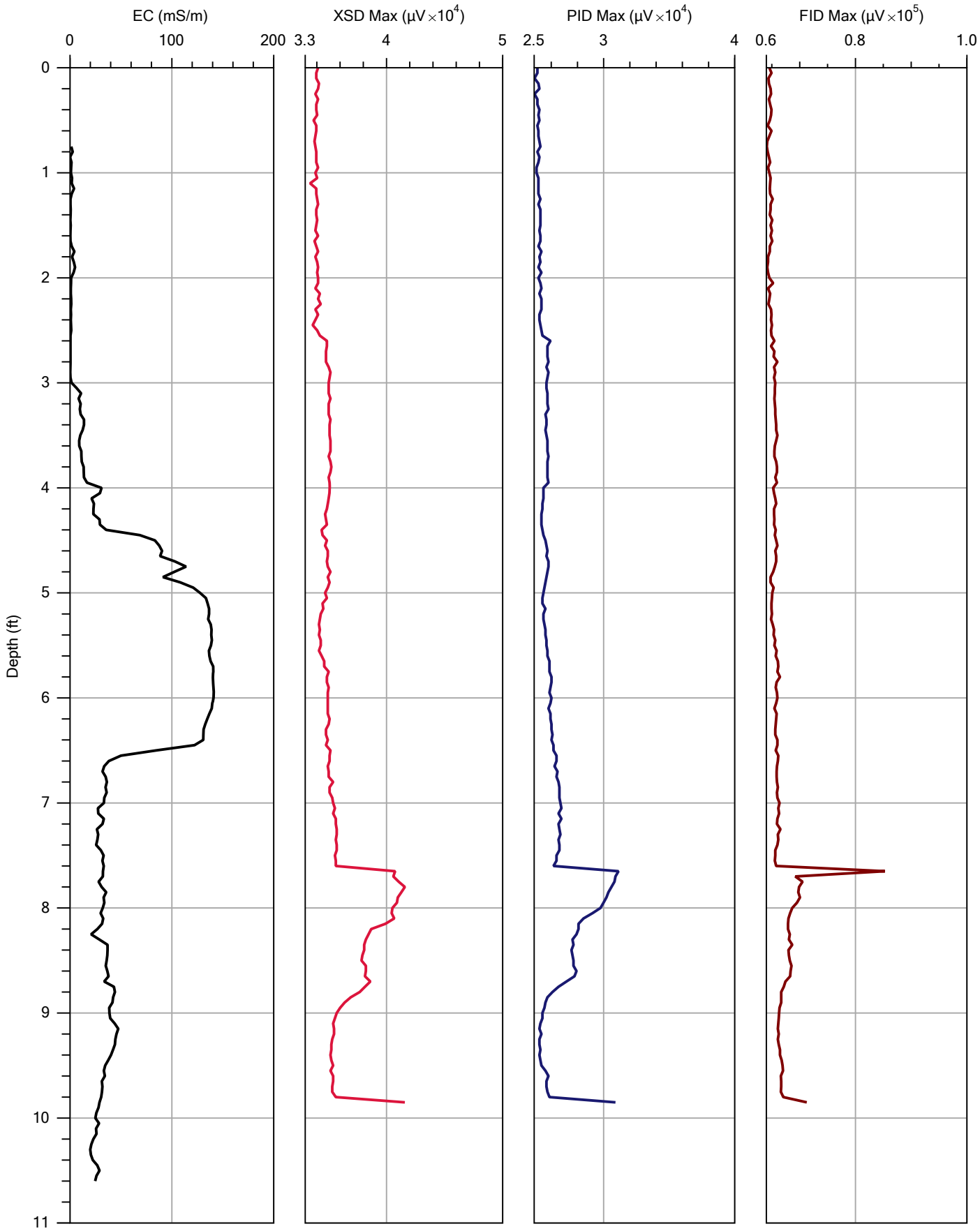
SAMPLE LOCATION: MIP-FSK-20 (5-6 ft bgs)

Company: CASCADE TECHNICAL SERVICES	Operator: ZF	File: MIP-20.MIP
Project ID: 203181157	Client: GEI	Date: 07/26/18
		Location: new windsor ny



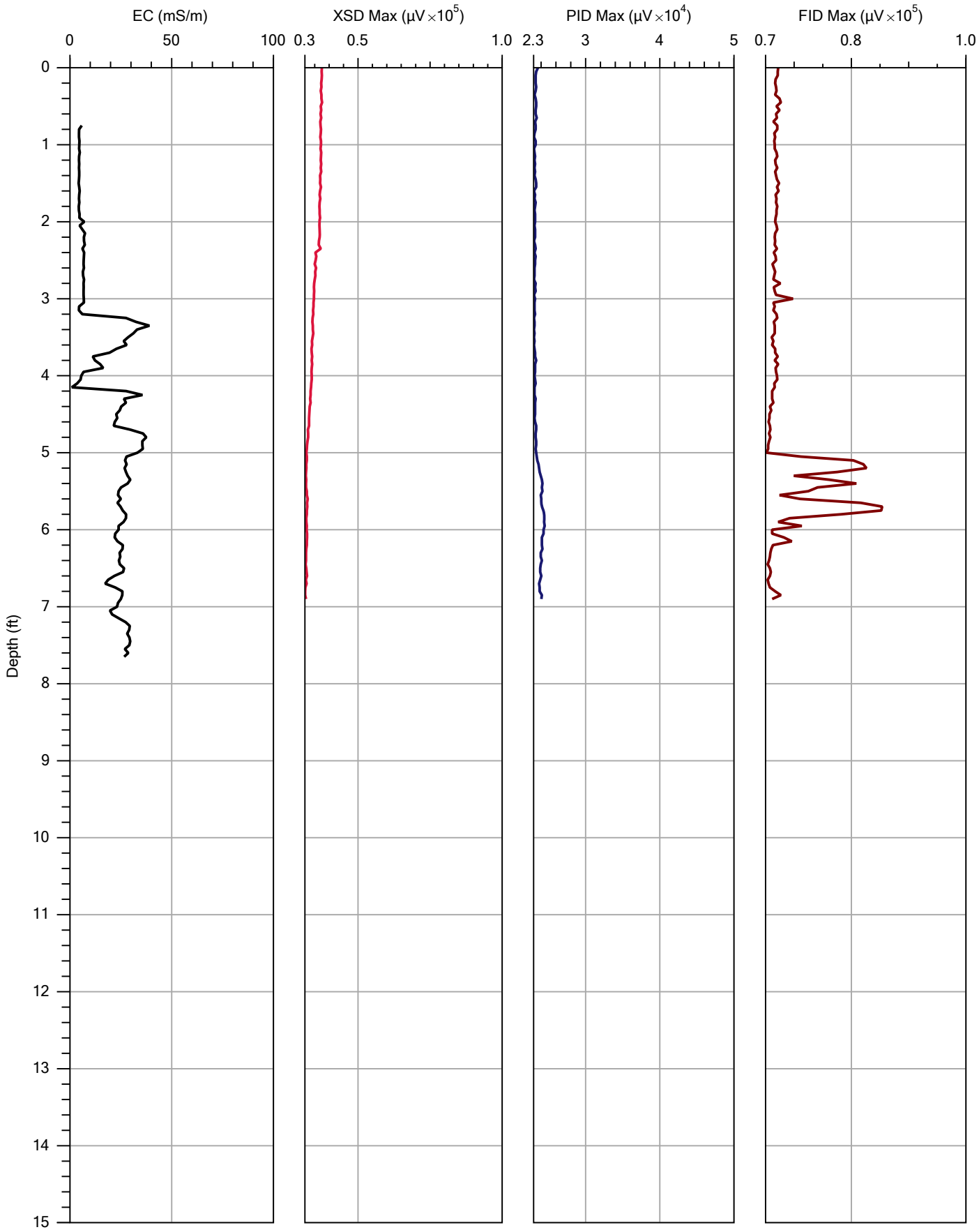
CASCADE
DRILLING | TECHNICAL SERVICES
EXCELLENCE ON EVERY LEVEL™

		File: MIP-21.MIP
Company: CASCADE TECHNICAL SERVICES	Operator: ZF	Date: 07/26/18
Project ID: 203181157	Client: GEI	Location: new windsor ny



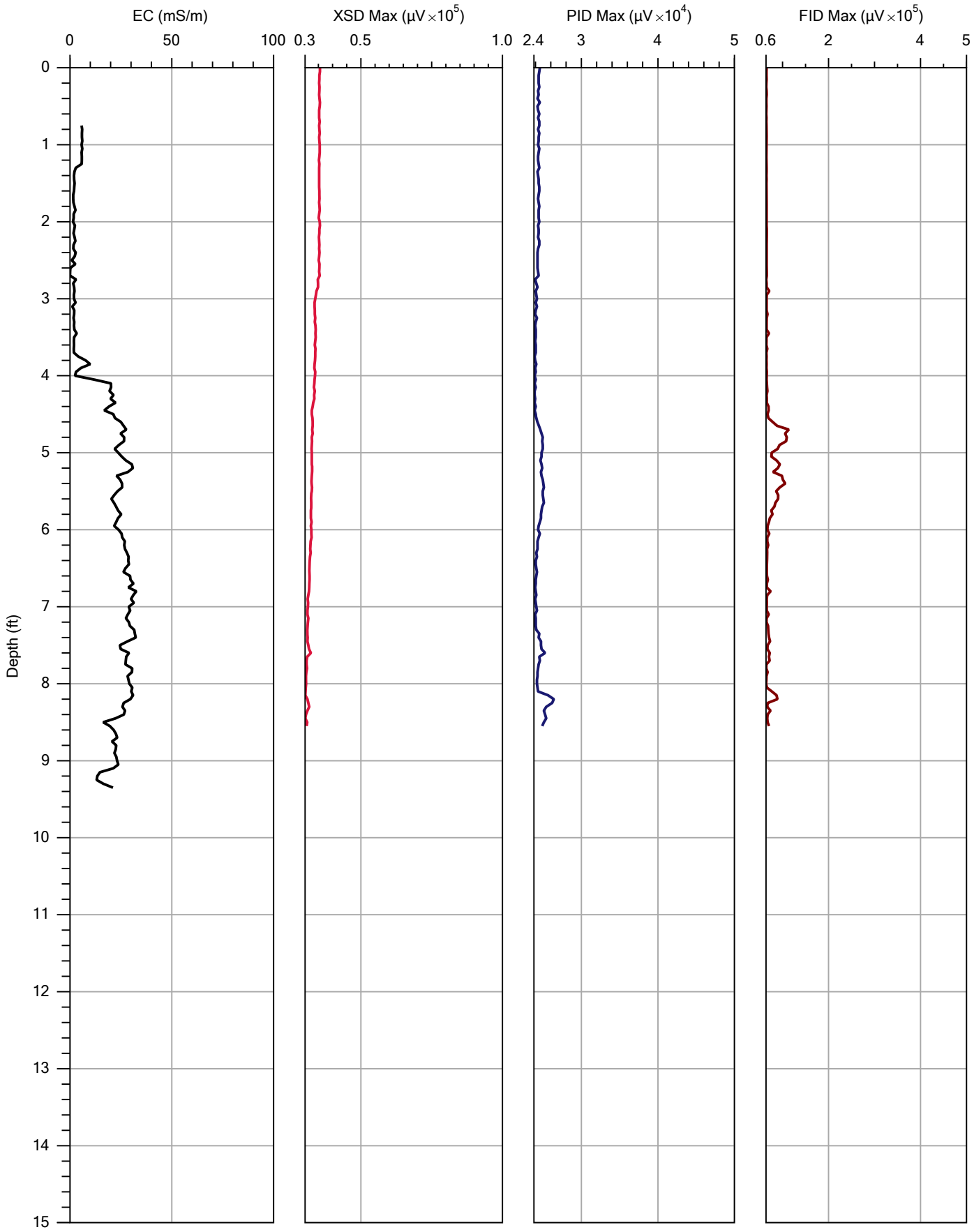
CASCADE
DRILLING | TECHNICAL SERVICES
EXCELLENCE ON EVERY LEVEL™

		File: MIP-22.MIP
Company: CASCADE TECHNICAL SERVICES	Operator: ZF	Date: 07/26/18
Project ID: 203181157	Client: GEI	Location: new windsor ny



CASCADE
DRILLING | TECHNICAL SERVICES
EXCELLENCE ON EVERY LEVEL™

		File: MIP-23.MIP
Company: CASCADE TECHNICAL SERVICES	Operator: ZF	Date: 07/26/18
Project ID: 203181157	Client: GEI	Location: new windsor ny



CASCADE
DRILLING | TECHNICAL SERVICES
EXCELLENCE ON EVERY LEVEL™

		File: MIP-24.MIP
Company: CASCADE TECHNICAL SERVICES	Operator: ZF	Date: 07/26/18
Project ID: 203181157	Client: GEI	Location: new windsor ny

Reference Material

The sections below provide information regarding the Cascade Personnel present at the site during the field activities, the specific equipment used during field activities, and background information on the MIP system.

Cascade Personnel

The following personnel were present during field activities at the Site:

- Mr. Zack Fordley, Cascade Technical Services (HRSC Specialist)
- Mr. Drake Boyke, Cascade Technical Services (DPT Operator)

Equipment

The following equipment was utilized during field activities at the Site:

- Geoprobe 66 Series Direct Push Drill Rig
- MIP Controller (Nitrogen Flow and Heater)
- Geoprobe FI 6000 Computer
- SRI Model 310 GC Gas Chromatograph [or] HP 5890 Gas Chromatograph
- Electrical Conductivity
- XSD (Halogen Specific Detector)
- PID (Photo Ionization Detector) 10.2 eV Lamp
- FID (Flame Ionization Detector)
- 150' MIP Trunkline
- 1.75" O.D. MIP Probe
- 1.75" O.D. Drive Rods
- Ultra-High Purity Nitrogen
- Ultra-High Purity Hydrogen

MIP System Overview

The MIP is commonly used for quickly determining the locations of volatile organic compound (VOC) source zones and plumes. The MIP is most valuable in terms of its ability to provide “spatial correspondence”, meaning that where the MIP detector response show peaks, there is likely to be elevated soil and groundwater concentrations. The MIP can also be used to provide extremely valuable data to streamline subsequent investigative tasks and improve the overall efficiency and accuracy of the site investigation. Vertical profiles, cross sectional views and 3D images of contaminant distribution can all be produced from the electronic data generated by the MIP logs. The unique capability of providing reliable, real-time information allows for informed and timely decision making in the field. The MIP works by heating the soils and groundwater adjacent to the probe to 120 degrees C. This volatilizes the VOCs and allows the VOCs to transfer through a Teflon membrane via a combination of concentration and pressure gradients. These VOCs are then swept into a nitrogen gas loop that carries these vapors to a series of detectors housed at the surface. Continuous chemical profiles are generated from each hole. Electrical conductivity of the soil is also measured and these logs can be compared to the chemical logs to better understand the relationship between the lithology and the contaminant distribution. The MIP technology is only appropriate for VOCs. The following section discusses the various detection systems that are commonly used with the MIP system.

Detector Overview

- XSD – The Halogen Specific Detector converts compounds containing halogens to their oxidation products and free halogen atoms by oxidative pyrolysis. These halogen atoms are

adsorbed onto the activated platinum surface of the detector probe assembly resulting in an increase thermionic emission. This emission current provides a corresponding voltage that is measured via an electrometer circuit in the detector controller.

- PID – Photo Ionization Detector sample stream flows through the detector's reaction chamber where it is continuously irradiated with high energy ultraviolet light. When compounds are present that have a lower ionization potential than that of the irradiation energy (10.2 electron volts with standard lamp) they are ionized. The ions formed are collected in an electrical field, producing an ion current that is proportional to compound concentration. The ion current is amplified and output by the gas chromatograph's electrometer.
- FID – Flame Ionization Detector consists of a hydrogen / air flame and a collector plate. The effluent from the GC (trunkline) passes through the flame, which breaks down organic molecules and produces ions. The ions are collected on a biased electrode and produce an electric signal.

MIP Data Collection

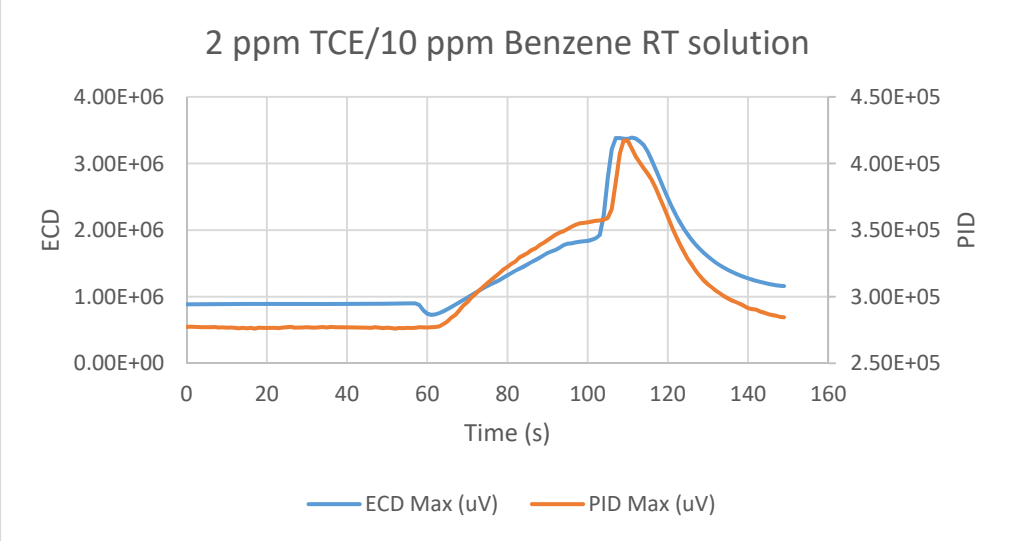
- Depth - Data is collected every 0.05 feet, or twenty points per foot.
- Electrical Conductivity - Electrical Conductivity data is measured/collected in milli-siemens per Meter (ms/M). The conductivity of soils is different for each type of media. Finer grained sediments, such as silts or clays, will typically have a higher EC signal. While coarser grained sediments, sands and gravel, will typically have a lower EC signal.
- Rate of Penetration - Rate of penetration (ROP) is measured/collected in feet per minute (ft/min). Speed is an indication of the advancement rate of the MIP probe. In order to allow for adequate heating of the MIP tooling, the MIP's ROP should not exceed one foot per minute.
- Temperature - Temperature data is measured/collected in Degrees Celsius. Temperature is an indication of the physical temperature of the MIP block. Minimum and Maximum temperature is collected at each vertical interval. Cascade's temperature protocol indicates that the MIP probe temperature shall maintain a minimum temperature of 90 Degrees Celsius.
- Pressure - Pressure data is measured/collected in PSI. The pressure readings represent the pressure being delivered to the MIP's nitrogen gas line. Deviations greater than of 1.5 PSI outside of the starting pressure indicate a system leak or obstruction is present.
- Detector (XSD, PID, FID) - Detector responses are measured/collected in micro Volts (uV). Detector responses are an indication of relative contaminant responses. Minimum and Maximum detector responses are collected at each vertical interval.

Response Testing

Response testing (RT) is an integral part of ensuring the quality of data from the MIP system. Response testing is conducted before and after each log. This ensures the validity of the data and the integrity of the system. The RT provides a traceable indication that the MIP system detectors are adequately responding and allows the carrier gas trip time to be calculated on the physical components of the system.

Cascade uses acceptance criteria to evaluate the RTs. The acceptable criteria for an RT is defined for specified concentrations of RT solution and a specified N2 trunkline flow rate.

The trip time is measured by recording the time between the moment when the VOA is placed over the membrane and the response of the detectors, as viewed on the MIP data acquisition unit. The baseline and peak response value are also recorded for comparison with other MIP response tests. The trip time is entered manually into the data acquisition system account for the time it takes for compounds in the subsurface to travel the length of the trunkline during the MIP boring.


2 ppm TCE/10 ppm Benzene RT solution
4.00E+06
3.00E+06
2.00E+06
1.00E+06
0.00E+00
ECD
4.50E+05
4.00E+05
3.50E+05
3.00E+05
2.50E+05
PID
0
20
40
60
80
100
120
140
160
Time (s)
ECD Max (uV)
PID Max (uV)

Attachment 2

Technical Report

prepared for:

GEI Consultants, Inc
455 Winding Brook Drive, Suite 201
Glastonbury CT, 06033
Attention: Matt O'Neill

Report Date: 07/30/2018
Client Project ID: 1602600-06-1
York Project (SDG) No.: 18G0973

Report Date: 07/30/2018
Client Project ID: 1602600-06-1
York Project (SDG) No.: 18G0973

GEI Consultants, Inc
455 Winding Brook Drive, Suite 201
Glastonbury CT, 06033
Attention: Matt O'Neill

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on July 23, 2018 and listed below. The project was identified as your project: **1602600-06-1**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
18G0973-01	MIP-FSK-01	Soil	07/23/2018	07/23/2018

General Notes for York Project (SDG) No.: 18G0973

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 07/30/2018

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: MIP-FSK-01 **York Sample ID:** 18G0973-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0973	1602600-06-1	Soil	July 23, 2018 9:10 am	07/23/2018

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
563-58-6	1,1-Dichloropropylene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY12058,PAI		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY12058,PAI		
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY12058		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY12058,PAI		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
142-28-9	1,3-Dichloropropane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY12058,PAI		

Sample Information

Client Sample ID: MIP-FSK-01 **York Sample ID:** 18G0973-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0973	1602600-06-1	Soil	July 23, 2018 9:10 am	07/23/2018

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications:	07/26/2018 07:30	07/26/2018 16:35 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	41	160	1	EPA 8260C Certifications:	07/26/2018 07:30	07/26/2018 16:35 NELAC-NY10854,NJDEP,NELAC-NY12058,PAI	SS
594-20-7	2,2-Dichloropropane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications:	07/26/2018 07:30	07/26/2018 16:35 NELAC-NY10854,NJDEP,NELAC-NY12058	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications:	07/26/2018 07:30	07/26/2018 16:35 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	SS
95-49-8	2-Chlorotoluene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications:	07/26/2018 07:30	07/26/2018 16:35 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	SS
106-43-4	4-Chlorotoluene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications:	07/26/2018 07:30	07/26/2018 16:35 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	SS
67-64-1	**Acetone**	**5.0**	CCV-E, SCAL-E, J	ug/kg dry	4.1	8.1	1	EPA 8260C Certifications:	07/26/2018 07:30	07/26/2018 16:35 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	SS
71-43-2	Benzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications:	07/26/2018 07:30	07/26/2018 16:35 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	SS
108-86-1	Bromobenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications:	07/26/2018 07:30	07/26/2018 16:35 NELAC-NY10854,NJDEP,NELAC-NY12058,PAI	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications:	07/26/2018 07:30	07/26/2018 16:35 NELAC-NY10854,NJDEP,NELAC-NY12058,PAI	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications:	07/26/2018 07:30	07/26/2018 16:35 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	SS
75-25-2	Bromoform	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications:	07/26/2018 07:30	07/26/2018 16:35 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications:	07/26/2018 07:30	07/26/2018 16:35 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications:	07/26/2018 07:30	07/26/2018 16:35 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications:	07/26/2018 07:30	07/26/2018 16:35 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications:	07/26/2018 07:30	07/26/2018 16:35 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	SS
67-66-3	Chloroform	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications:	07/26/2018 07:30	07/26/2018 16:35 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications:	07/26/2018 07:30	07/26/2018 16:35 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications:	07/26/2018 07:30	07/26/2018 16:35 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications:	07/26/2018 07:30	07/26/2018 16:35 CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C Certifications:	07/26/2018 07:30	07/26/2018 16:35 NELAC-NY10854,NJDEP,NELAC-NY12058,PAI	SS

Sample Information

Client Sample ID: MIP-FSK-01 **York Sample ID:** 18G0973-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0973	1602600-06-1	Soil	July 23, 2018 9:10 am	07/23/2018

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-95-3	Dibromomethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY12058,PAL		
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY12058,PAL		
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY12058,PAL		
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
75-09-2	Methylene chloride	ND		ug/kg dry	4.1	8.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
91-20-3	Naphthalene	ND		ug/kg dry	2.0	8.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY12058,PAL		
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
95-47-6	o-Xylene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PA		
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.1	8.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PA		
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
100-42-5	Styrene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
127-18-4	**Tetrachloroethylene**	**5.8**		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
108-88-3	Toluene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
79-01-6	Trichloroethylene	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		

Sample Information

Client Sample ID: MIP-FSK-01 **York Sample ID:** 18G0973-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G0973	1602600-06-1	Soil	July 23, 2018 9:10 am	07/23/2018

Volatile Organics, 8260 List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
108-05-4	Vinyl acetate	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	NELAC-NY10854,NJDEP,NELAC-NY12058,PAI		
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.0	4.1	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
1330-20-7	Xylenes, Total	ND		ug/kg dry	6.1	12	1	EPA 8260C	07/26/2018 07:30	07/26/2018 16:35	SS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*96.2 %*	*77-125*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*85-120*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*102 %*	*76-130*

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**92.0**		%	0.100	1	SM 2540G	07/30/2018 10:54	07/30/2018 16:05	TJM
							Certifications:	CTDOH		

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18G0973-01	MIP-FSK-01	40mL Vial with Stir Bar-Cool 4° C

Sample and Data Qualifiers Relating to This Work Order

SCAL-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20%).
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 18G0973

Page ____ of ____

YOUR Information	Report To:	Invoice To:
Company: GEI CONSULTANTS	Company: Same	Company: Same
Address: 455 Winding Brook Dr Glastonbury, CT 06033	Address:	Address:
Phone: 860-368-5300	Phone.:	Phone.:
Contact: Matt O'Neil	Contact:	Contact:
E-mail: moneil@geiconsultants.com	E-mail:	E-mail:

YOUR Project Number: 1602600.06.1

YOUR Project Name: Former Safety Kleen Dry cleaners

YOUR PO#: 1602600.06.1

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)
Chris Arcudo

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil ⋮ Other

Samples From

New York	X
New Jersey	
Connecticut	
Pennsylvania	
Other	

Report / EDD Type (circle selections)

(Summary Report)	CT RCP	(Standard Excel EDD)
QA Report	CT RCP DQA/DUE	EQuIS (Standard)
NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EQuIS
NY ASP B Package	NJDKQP	NJDEP SRP HazSite
		Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
MP-FSK-01	S	7/23/18 0910	8260 VOCs	VOA Vials

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: _____

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Chris GEI Consultants	7/23/18 1300		7-23-18 1300		
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
	7-23-18 1526			TC Mahler	7/23/18 1526 / 1.1 Degrees C

Technical Report

prepared for:

GEI Consultants, Inc
455 Winding Brook Drive, Suite 201
Glastonbury CT, 06033
Attention: Matt O'Neill

Report Date: 08/08/2018
Client Project ID: 1602600.06.1
York Project (SDG) No.: 18G1174

Revision No. 1.0

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 08/08/2018
Client Project ID: 1602600.06.1
York Project (SDG) No.: 18G1174

GEI Consultants, Inc
455 Winding Brook Drive, Suite 201
Glastonbury CT, 06033
Attention: Matt O'Neill

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on July 27, 2018 and listed below. The project was identified as your project: **1602600.06.1**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
18G1174-01	MIP-FSK-Composite	Soil	07/26/2018	07/27/2018
18G1174-02	MIP-FSK-20 (5-6ft)	Soil	07/26/2018	07/27/2018
18G1174-03	MIP-FSK-19 (9-10ft)	Soil	07/26/2018	07/27/2018

General Notes for York Project (SDG) No.: 18G1174

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: 

Date: 08/08/2018

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: MIP-FSK-Composite

York Sample ID: 18G1174-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G1174	1602600.06.1	Soil	July 26, 2018 12:02 pm	07/27/2018

Volatile Organics, TCLP RCRA List

Log-in Notes: VOA-CON T

Sample Notes:

Sample Prepared by Method: EPA 5030B/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311	08/02/2018 14:43	08/03/2018 02:13	RDS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
107-06-2	1,2-Dichloroethane	ND		ug/L	25	50	10	EPA 8260C/1311	08/02/2018 14:43	08/03/2018 02:13	RDS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311	08/02/2018 14:43	08/03/2018 02:13	RDS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
78-93-3	2-Butanone	ND		ug/L	25	50	10	EPA 8260C/1311	08/02/2018 14:43	08/03/2018 02:13	RDS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
71-43-2	Benzene	ND		ug/L	25	50	10	EPA 8260C/1311	08/02/2018 14:43	08/03/2018 02:13	RDS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
56-23-5	Carbon tetrachloride	ND		ug/L	25	50	10	EPA 8260C/1311	08/02/2018 14:43	08/03/2018 02:13	RDS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
108-90-7	Chlorobenzene	ND		ug/L	25	50	10	EPA 8260C/1311	08/02/2018 14:43	08/03/2018 02:13	RDS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
67-66-3	Chloroform	ND		ug/L	25	50	10	EPA 8260C/1311	08/02/2018 14:43	08/03/2018 02:13	RDS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
127-18-4	Tetrachloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311	08/02/2018 14:43	08/03/2018 02:13	RDS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
79-01-6	Trichloroethylene	ND		ug/L	25	50	10	EPA 8260C/1311	08/02/2018 14:43	08/03/2018 02:13	RDS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		
75-01-4	Vinyl Chloride	ND		ug/L	25	50	10	EPA 8260C/1311	08/02/2018 14:43	08/03/2018 02:13	RDS
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,NELAC-NY1		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*98.7 %*	*77-125*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*92.3 %*	*76-130*
2037-26-5	*Surrogate: Toluene-d8*	*104 %*	*85-120*

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: VOA-CON T

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
92-52-4	1,1-Biphenyl	ND		ug/kg dry	47.2	94.3	2	EPA 8270D	08/01/2018 14:05	08/02/2018 21:06	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	94.3	188	2	EPA 8270D	08/01/2018 14:05	08/02/2018 21:06	SR
								Certifications:	NELAC-NY10854,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D	08/01/2018 14:05	08/02/2018 21:06	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D	08/01/2018 14:05	08/02/2018 21:06	SR
								Certifications:	NELAC-NY10854,PADEP		

Sample Information

Client Sample ID: MIP-FSK-Composite

York Sample ID: 18G1174-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G1174	1602600.06.1	Soil	July 26, 2018 12:02 pm	07/27/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/01/2018 14:05	08/02/2018 21:06	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/01/2018 14:05	08/02/2018 21:06	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications: NELAC-NY10854,PADEP	08/01/2018 14:05	08/02/2018 21:06	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	94.3	188	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/01/2018 14:05	08/02/2018 21:06	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/01/2018 14:05	08/02/2018 21:06	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/01/2018 14:05	08/02/2018 21:06	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/01/2018 14:05	08/02/2018 21:06	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/01/2018 14:05	08/02/2018 21:06	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	94.3	188	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/01/2018 14:05	08/02/2018 21:06	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/01/2018 14:05	08/02/2018 21:06	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/01/2018 14:05	08/02/2018 21:06	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/01/2018 14:05	08/02/2018 21:06	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/01/2018 14:05	08/02/2018 21:06	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/01/2018 14:05	08/02/2018 21:06	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/01/2018 14:05	08/02/2018 21:06	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	94.3	188	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/01/2018 14:05	08/02/2018 21:06	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/01/2018 14:05	08/02/2018 21:06	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/01/2018 14:05	08/02/2018 21:06	SR
91-94-1	3,3-Dichlorobenzidine	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications: NELAC-NY10854,NJDEP,PADEP	08/01/2018 14:05	08/02/2018 21:06	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	94.3	188	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/01/2018 14:05	08/02/2018 21:06	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	94.3	188	2	EPA 8270D Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	08/01/2018 14:05	08/02/2018 21:06	SR

Sample Information

Client Sample ID: MIP-FSK-Composite

York Sample ID: 18G1174-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G1174	1602600.06.1	Soil	July 26, 2018 12:02 pm	07/27/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: VOA-CON T

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	94.3	188	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	94.3	188	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
83-32-9	Acenaphthene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
98-86-2	Acetophenone	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 NELAC-NY10854,NJDEP,PADEP	SR
62-53-3	Aniline	ND		ug/kg dry	189	377	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 NELAC-NY10854,NJDEP,PADEP	SR
120-12-7	Anthracene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
1912-24-9	Atrazine	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 NELAC-NY10854,NJDEP,PADEP	SR
100-52-7	Benzaldehyde	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 NELAC-NY10854,NJDEP,PADEP	SR
92-87-5	Benzidine	ND		ug/kg dry	189	377	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,PADEP	SR
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
65-85-0	Benzoic acid	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 NELAC-NY10854,NJDEP,PADEP	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 NELAC-NY10854,NJDEP,PADEP	SR

Sample Information

Client Sample ID: MIP-FSK-Composite

York Sample ID: 18G1174-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G1174	1602600.06.1	Soil	July 26, 2018 12:02 pm	07/27/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: VOA-CON T

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	**Benzyl butyl phthalate**	**97.2**		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
117-81-7	**Bis(2-ethylhexyl)phthalate**	**53.5**	J	ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
105-60-2	Caprolactam	ND		ug/kg dry	94.3	188	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 NELAC-NY10854,NJDEP,PADEP	SR
86-74-8	Carbazole	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
218-01-9	Chrysene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
206-44-0	Fluoranthene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
86-73-7	Fluorene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 NELAC-NY10854,NJDEP,PADEP	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR
78-59-1	Isophorone	ND		ug/kg dry	47.2	94.3	2	EPA 8270D Certifications:	08/01/2018 14:05	08/02/2018 21:06 CTDOH,NELAC-NY10854,NJDEP,PADEP	SR

Sample Information

Client Sample ID: MIP-FSK-Composite **York Sample ID:** 18G1174-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G1174	1602600.06.1	Soil	July 26, 2018 12:02 pm	07/27/2018

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: VOA-CON T **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-20-3	Naphthalene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D	08/01/2018 14:05	08/02/2018 21:06	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
98-95-3	Nitrobenzene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D	08/01/2018 14:05	08/02/2018 21:06	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	47.2	94.3	2	EPA 8270D	08/01/2018 14:05	08/02/2018 21:06	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	47.2	94.3	2	EPA 8270D	08/01/2018 14:05	08/02/2018 21:06	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	47.2	94.3	2	EPA 8270D	08/01/2018 14:05	08/02/2018 21:06	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
87-86-5	Pentachlorophenol	ND		ug/kg dry	47.2	94.3	2	EPA 8270D	08/01/2018 14:05	08/02/2018 21:06	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
85-01-8	Phenanthrene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D	08/01/2018 14:05	08/02/2018 21:06	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
108-95-2	Phenol	ND		ug/kg dry	47.2	94.3	2	EPA 8270D	08/01/2018 14:05	08/02/2018 21:06	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
129-00-0	Pyrene	ND		ug/kg dry	47.2	94.3	2	EPA 8270D	08/01/2018 14:05	08/02/2018 21:06	SR
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*38.6 %*	*20-108*
4165-62-2	*Surrogate: Phenol-d5*	*36.3 %*	*23-114*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*45.8 %*	*22-108*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*42.4 %*	*21-113*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*75.4 %*	*19-110*
1718-51-0	*Surrogate: Terphenyl-d14*	*66.5 %*	*24-116*

Semi-Volatiles, TCLP RCRA Target List

Log-in Notes: VOA-CON T **Sample Notes:**

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/L	6.45	10.0	1	EPA 8270D/1311	08/02/2018 07:53	08/02/2018 22:11	OW
								Certifications:	NELAC-NY10854,PADEP		
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	7.22	10.0	1	EPA 8270D/1311	08/02/2018 07:53	08/02/2018 22:11	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	6.54	10.0	1	EPA 8270D/1311	08/02/2018 07:53	08/02/2018 22:11	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
121-14-2	2,4-Dinitrotoluene	ND		ug/L	4.73	10.0	1	EPA 8270D/1311	08/02/2018 07:53	08/02/2018 22:11	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
95-48-7	2-Methylphenol	ND		ug/L	1.71	10.0	1	EPA 8270D/1311	08/02/2018 07:53	08/02/2018 22:11	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
65794-96-9	3- & 4-Methylphenols	ND		ug/L	7.43	20.0	1	EPA 8270D/1311	08/02/2018 07:53	08/02/2018 22:11	OW
								Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: MIP-FSK-Composite **York Sample ID:** 18G1174-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G1174	1602600.06.1	Soil	July 26, 2018 12:02 pm	07/27/2018

Semi-Volatiles, TCLP RCRA Target List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1319-77-3	Cresols, total	ND		ug/L	7.40	30.0	1	EPA 8270D/1311	08/02/2018 07:53	08/02/2018 22:11	OW
								Certifications: CTDOH,NELAC-NY10854			
118-74-1	Hexachlorobenzene	ND		ug/L	5.91	10.0	1	EPA 8270D/1311	08/02/2018 07:53	08/02/2018 22:11	OW
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
87-68-3	Hexachlorobutadiene	ND		ug/L	6.62	10.0	1	EPA 8270D/1311	08/02/2018 07:53	08/02/2018 22:11	OW
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
67-72-1	Hexachloroethane	ND		ug/L	7.26	10.0	1	EPA 8270D/1311	08/02/2018 07:53	08/02/2018 22:11	OW
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
98-95-3	Nitrobenzene	ND		ug/L	3.93	10.0	1	EPA 8270D/1311	08/02/2018 07:53	08/02/2018 22:11	OW
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
87-86-5	Pentachlorophenol	ND		ug/L	7.53	10.0	1	EPA 8270D/1311	08/02/2018 07:53	08/02/2018 22:11	OW
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
110-86-1	Pyridine	ND		ug/L	6.37	10.0	1	EPA 8270D/1311	08/02/2018 07:53	08/02/2018 22:11	OW
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*55.3 %*	*10-90.9*
4165-62-2	*Surrogate: Phenol-d5*	*41.2 %*	*10-69.2*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*79.3 %*	*19.2-141*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*67.2 %*	*24.8-127*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*138 %*	*23-163*
1718-51-0	*Surrogate: Terphenyl-d14*	*88.2 %*	*25.8-110*

Pesticides, TCLP RCRA List

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
57-74-9	Chlordane, total	ND		ug/L	0.222	0.222	1	EPA 8081B/1311	08/02/2018 08:02	08/02/2018 12:56	SA
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-20-8	Endrin	ND		ug/L	0.0444	0.0444	1	EPA 8081B/1311	08/02/2018 08:02	08/02/2018 12:56	SA
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
58-89-9	gamma-BHC (Lindane)	ND		ug/L	0.0444	0.0444	1	EPA 8081B/1311	08/02/2018 08:02	08/02/2018 12:56	SA
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
76-44-8	Heptachlor	ND		ug/L	0.0444	0.0444	1	EPA 8081B/1311	08/02/2018 08:02	08/02/2018 12:56	SA
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
1024-57-3	Heptachlor epoxide	ND		ug/L	0.0444	0.0444	1	EPA 8081B/1311	08/02/2018 08:02	08/02/2018 12:56	SA
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
72-43-5	Methoxychlor	ND		ug/L	0.0444	0.0444	1	EPA 8081B/1311	08/02/2018 08:02	08/02/2018 12:56	SA
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
8001-35-2	Toxaphene	ND		ug/L	1.11	1.11	1	EPA 8081B/1311	08/02/2018 08:02	08/02/2018 12:56	SA
								Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

	Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: MIP-FSK-Composite

York Sample ID: 18G1174-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G1174	1602600.06.1	Soil	July 26, 2018 12:02 pm	07/27/2018

Pesticides, TCLP RCRA List

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 3510C/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2051-24-3	*Surrogate: Decachlorobiphenyl*	*75.4 %*			*30-120*						
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*78.6 %*			*30-120*						

Polychlorinated Biphenyls (PCB)

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0188	1	EPA 8082A	08/01/2018 14:00	08/02/2018 15:04	LAB
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0188	1	EPA 8082A	08/01/2018 14:00	08/02/2018 15:04	LAB
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0188	1	EPA 8082A	08/01/2018 14:00	08/02/2018 15:04	LAB
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0188	1	EPA 8082A	08/01/2018 14:00	08/02/2018 15:04	LAB
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0188	1	EPA 8082A	08/01/2018 14:00	08/02/2018 15:04	LAB
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0188	1	EPA 8082A	08/01/2018 14:00	08/02/2018 15:04	LAB
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0188	1	EPA 8082A	08/01/2018 14:00	08/02/2018 15:04	LAB
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0188	1	EPA 8082A	08/01/2018 14:00	08/02/2018 15:04	LAB
							Certifications:			

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*47.5 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*40.5 %*	*30-140*

Herbicides, TCLP Target List

Log-in Notes: VOA-CONT

Sample Notes:

Sample Prepared by Method: EPA 3535A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
93-72-1	2,4,5-TP (Silvex)	ND		ug/L	5.00	1	EPA 8151A/1311	08/02/2018 04:39	08/02/2018 13:56	lab
							Certifications:	CTDOH,NELAC-NY10854,NJDEP		
94-75-7	2,4-D	ND		ug/L	5.00	1	EPA 8151A/1311	08/02/2018 04:39	08/02/2018 13:56	lab
							Certifications:	CTDOH,NELAC-NY10854,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
19719-28-9	*Surrogate: 2,4-Dichlorophenylacetic acid (DCAA)*	*142 %*	*30-150*

Sample Information

Client Sample ID: MIP-FSK-Composite **York Sample ID:** 18G1174-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G1174	1602600.06.1	Soil	July 26, 2018 12:02 pm	07/27/2018

NJDEP EPH (Cat. 2 Non-Fractionated)

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Total EPH	ND		mg/kg dry	55.4	1	NJDEP EPH Rev 3.0 Certifications: NJDEP	08/02/2018 04:48	08/02/2018 18:33	SA

	Surrogate Recoveries	Result	Acceptance Range
3386-33-2	*Surrogate: 1-Chlorooctadecane*	*79.3 %*	*40-140*
84-15-1	*Surrogate: o-Terphenyl*	*83.9 %*	*40-140*

Total Petroleum Hydrocarbons-DRO (C10-C28)

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-DRO	ND		mg/kg dry	11.3	1	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	07/31/2018 13:56	08/01/2018 15:32	SA

	Surrogate Recoveries	Result	Acceptance Range
638-68-6	*Surrogate: Triacontane*	*56.4 %*	*30-150*

Total Petroleum Hydrocarbons-GRO (C5-C10)

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Petroleum Hydrocarbons-GRO	ND		mg/kg dry	90.4	100	EPA 8015D Certifications: NELAC-NY10854,NJDEP,PADEP	07/27/2018 07:30	07/27/2018 23:45	OW

	Surrogate Recoveries	Result	Acceptance Range
460-00-4	*Surrogate: p-Bromofluorobenzene*	*96.7 %*	*70-130*

Metals, RCRA

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**2.94**		mg/kg dry	1.13	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/30/2018 10:43	07/30/2018 17:58	KML
7440-39-3	**Barium**	**41.9**		mg/kg dry	1.13	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/30/2018 10:43	07/30/2018 17:58	KML
7440-43-9	Cadmium	ND		mg/kg dry	0.339	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/30/2018 10:43	07/30/2018 17:58	KML
7440-47-3	**Chromium**	**14.1**		mg/kg dry	0.565	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/30/2018 10:43	07/30/2018 17:58	KML
7439-92-1	**Lead**	**9.87**		mg/kg dry	0.565	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/30/2018 10:43	07/30/2018 17:58	KML
7782-49-2	Selenium	ND		mg/kg dry	1.13	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/30/2018 10:43	07/30/2018 17:58	KML
7440-22-4	Silver	ND		mg/kg dry	0.565	1	EPA 6010C Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	07/30/2018 10:43	07/30/2018 17:58	KML

Sample Information

Client Sample ID: MIP-FSK-Composite **York Sample ID:** 18G1174-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G1174	1602600.06.1	Soil	July 26, 2018 12:02 pm	07/27/2018

Metals, TCLP RCRA

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 3015A/1311

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		mg/L	0.100	1	EPA 6010C/1311	08/02/2018 14:41	08/02/2018 21:03	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-39-3	Barium	ND		mg/L	0.250	1	EPA 6010C/1311	08/02/2018 14:41	08/02/2018 21:03	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-43-9	Cadmium	ND		mg/L	0.075	1	EPA 6010C/1311	08/02/2018 14:41	08/02/2018 21:03	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-47-3	Chromium	ND		mg/L	0.125	1	EPA 6010C/1311	08/02/2018 14:41	08/02/2018 21:03	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7439-92-1	Lead	ND		mg/L	0.125	1	EPA 6010C/1311	08/02/2018 14:41	08/02/2018 21:03	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7782-49-2	**Selenium**	**0.436**		mg/L	0.250	1	EPA 6010C/1311	08/02/2018 14:41	08/02/2018 21:03	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
7440-22-4	Silver	ND		mg/L	0.125	1	EPA 6010C/1311	08/02/2018 14:41	08/02/2018 21:03	KML
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			

Mercury by 7473

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0339	1	EPA 7473	07/31/2018 15:08	07/31/2018 15:30	SY
							Certifications: CTDOH,NJDEP,NELAC-NY10854,PADEP			

Mercury TCLP by 7473

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.000200	1	EPA 7473/1311	08/01/2018 13:54	08/01/2018 17:49	SY
							Certifications: CTDOH,NJDEP,PADEP,NELAC-NY10854			

Ignitability

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Ignitability	Non-Ignit.		-	1	1	EPA 1030P	08/01/2018 19:44	08/02/2018 02:03	AA
							Certifications:			

Total Solids

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**88.5**		%	0.100	1	SM 2540G	08/02/2018 23:24	08/03/2018 04:05	AA
							Certifications: CTDOH			

Sample Information

Client Sample ID: MIP-FSK-Composite **York Sample ID:** 18G1174-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G1174	1602600.06.1	Soil	July 26, 2018 12:02 pm	07/27/2018

Corrosivity by SM 4500/EPA 9045D

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	pH	**7.80**		pH units	0.500	1	EPA 9045D	08/01/2018 15:11	08/01/2018 20:31	TJD
							Certifications: NELAC-NY10854,CTDOH,PADEP			

Reactivity-Cyanide

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Cyanide	ND		mg/kg	0.250	1	EPA SW-846 Ch.7.3.3	08/03/2018 16:39	08/03/2018 17:11	TJD
							Certifications: CTDOH,PADEP			

Reactivity-Sulfide

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Reactivity - Sulfide	ND		mg/kg	15.0	1	EPA SW-846 Ch.7.3.4	08/03/2018 16:40	08/03/2018 17:11	TJD
							Certifications: CTDOH,PADEP			

TCLP Extraction for METALS EPA 1311

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ext. for metals

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	07/31/2018 21:15	08/01/2018 14:57	TJM
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

TCLP Extraction for SVOCS/PEST/HERB

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP extr. for SVOA/PEST/HERBS

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	07/31/2018 21:30	08/01/2018 14:57	TJM
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

TCLP Extraction for VOA by EPA 1311 ZHE

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: EPA SW 846-1311 TCLP ZHE for VOA

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	TCLP Extraction	Completed		N/A	1.00	1	EPA 1311	08/01/2018 21:07	08/02/2018 13:58	TJM
							Certifications: NELAC-NY10854,CTDOH,NJDEP,PADEP			

Temperature

Log-in Notes: VOA-CONT **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	*** Temperature**	**23.1**		°C	1.00	1	EPA 170.1	08/01/2018 15:11	08/01/2018 20:31	TJD
							Certifications:			

Sample Information

Client Sample ID: MIP-FSK-20 (5-6ft) **York Sample ID:** 18G1174-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G1174	1602600.06.1	Soil	July 26, 2018 8:50 am	07/27/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
123-91-1	1,4-Dioxane	ND		ug/kg dry	46	92	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
78-93-3	2-Butanone	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: MIP-FSK-20 (5-6ft) **York Sample ID:** 18G1174-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G1174	1602600.06.1	Soil	July 26, 2018 8:50 am	07/27/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
67-64-1	Acetone	ND		ug/kg dry	4.6	9.2	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-02-8	Acrolein	ND		ug/kg dry	4.6	9.2	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-13-1	Acrylonitrile	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
71-43-2	Benzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-97-5	Bromochloromethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-25-2	Bromoform	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-83-9	Bromomethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-15-0	Carbon disulfide	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-90-7	Chlorobenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-00-3	Chloroethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
67-66-3	Chloroform	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-87-3	Chloromethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
110-82-7	Cyclohexane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
74-95-3	Dibromomethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C	07/31/2018 07:30	07/31/2018 20:56	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		

Sample Information

Client Sample ID: MIP-FSK-20 (5-6ft) **York Sample ID:** 18G1174-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G1174	1602600.06.1	Soil	July 26, 2018 8:50 am	07/27/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications:	07/31/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	07/31/2018 20:56	RDS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications:	07/31/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/31/2018 20:56	RDS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications:	07/31/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	07/31/2018 20:56	RDS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications:	07/31/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/31/2018 20:56	RDS
79-20-9	Methyl acetate	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications:	07/31/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	07/31/2018 20:56	RDS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications:	07/31/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/31/2018 20:56	RDS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications:	07/31/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	07/31/2018 20:56	RDS
75-09-2	Methylene chloride	ND		ug/kg dry	4.6	9.2	1	EPA 8260C Certifications:	07/31/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/31/2018 20:56	RDS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications:	07/31/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/31/2018 20:56	RDS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications:	07/31/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/31/2018 20:56	RDS
95-47-6	o-Xylene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications:	07/31/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PA	07/31/2018 20:56	RDS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.6	9.2	1	EPA 8260C Certifications:	07/31/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,PA	07/31/2018 20:56	RDS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications:	07/31/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/31/2018 20:56	RDS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications:	07/31/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/31/2018 20:56	RDS
100-42-5	Styrene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications:	07/31/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/31/2018 20:56	RDS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications:	07/31/2018 07:30 NELAC-NY10854,NELAC-NY12058,NJDEP,PAL	07/31/2018 20:56	RDS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications:	07/31/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/31/2018 20:56	RDS
127-18-4	**Tetrachloroethylene**	**930**		ug/kg dry	230	450	100	EPA 8260C Certifications:	08/01/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	08/01/2018 12:44	RDS
108-88-3	Toluene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications:	07/31/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/31/2018 20:56	RDS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications:	07/31/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/31/2018 20:56	RDS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications:	07/31/2018 07:30 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/31/2018 20:56	RDS

Sample Information

Client Sample ID: MIP-FSK-20 (5-6ft) **York Sample ID:** 18G1174-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G1174	1602600.06.1	Soil	July 26, 2018 8:50 am	07/27/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH	07/31/2018 07:30	07/31/2018 20:56	RDS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/31/2018 07:30	07/31/2018 20:56	RDS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/31/2018 07:30	07/31/2018 20:56	RDS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.3	4.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/31/2018 07:30	07/31/2018 20:56	RDS
1330-20-7	Xylenes, Total	ND		ug/kg dry	6.9	14	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	07/31/2018 07:30	07/31/2018 20:56	RDS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*98.9 %*	*77-125*
2037-26-5	*Surrogate: Toluene-d8*	*105 %*	*85-120*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*96.9 %*	*76-130*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**87.6**		%	0.100	1	SM 2540G Certifications: CTDOH	08/02/2018 23:24	08/03/2018 04:05	AA

Sample Information

Client Sample ID: MIP-FSK-19 (9-10ft) **York Sample ID:** 18G1174-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G1174	1602600.06.1	Soil	July 26, 2018 8:08 am	07/27/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	08/01/2018 07:30	08/01/2018 12:17	RDS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	08/01/2018 07:30	08/01/2018 12:17	RDS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	08/01/2018 07:30	08/01/2018 12:17	RDS

Sample Information

Client Sample ID: MIP-FSK-19 (9-10ft) **York Sample ID:** 18G1174-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G1174	1602600.06.1	Soil	July 26, 2018 8:08 am	07/27/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications:	08/01/2018 07:30	08/01/2018 12:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	RDS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications:	08/01/2018 07:30	08/01/2018 12:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	RDS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications:	08/01/2018 07:30	08/01/2018 12:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	RDS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications:	08/01/2018 07:30	08/01/2018 12:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	RDS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications:	08/01/2018 07:30	08/01/2018 12:17 NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	RDS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications:	08/01/2018 07:30	08/01/2018 12:17 NELAC-NY10854,NELAC-NY12058,NJDEP	RDS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications:	08/01/2018 07:30	08/01/2018 12:17 NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	RDS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications:	08/01/2018 07:30	08/01/2018 12:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	RDS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications:	08/01/2018 07:30	08/01/2018 12:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	RDS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications:	08/01/2018 07:30	08/01/2018 12:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	RDS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications:	08/01/2018 07:30	08/01/2018 12:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	RDS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications:	08/01/2018 07:30	08/01/2018 12:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	RDS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications:	08/01/2018 07:30	08/01/2018 12:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	RDS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications:	08/01/2018 07:30	08/01/2018 12:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	RDS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications:	08/01/2018 07:30	08/01/2018 12:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	RDS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications:	08/01/2018 07:30	08/01/2018 12:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	RDS
123-91-1	1,4-Dioxane	ND		ug/kg dry	36	71	1	EPA 8260C Certifications:	08/01/2018 07:30	08/01/2018 12:17 NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	RDS
78-93-3	2-Butanone	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications:	08/01/2018 07:30	08/01/2018 12:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	RDS
591-78-6	2-Hexanone	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications:	08/01/2018 07:30	08/01/2018 12:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	RDS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	1.8	3.6	1	EPA 8260C Certifications:	08/01/2018 07:30	08/01/2018 12:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	RDS
67-64-1	Acetone	ND		ug/kg dry	3.6	7.1	1	EPA 8260C Certifications:	08/01/2018 07:30	08/01/2018 12:17 CTDOH,NELAC-NY10854,NELAC-NY12058,NJ	RDS

Sample Information

Client Sample ID: MIP-FSK-19 (9-10ft) **York Sample ID:** 18G1174-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G1174	1602600.06.1	Soil	July 26, 2018 8:08 am	07/27/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-02-8	Acrolein	ND		ug/kg dry	3.6	7.1	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
107-13-1	Acrylonitrile	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
71-43-2	Benzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-97-5	Bromochloromethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-25-2	Bromoform	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-83-9	Bromomethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-15-0	Carbon disulfide	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-90-7	Chlorobenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-00-3	Chloroethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
67-66-3	Chloroform	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
74-87-3	Chloromethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
110-82-7	Cyclohexane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
124-48-1	Dibromochloromethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
74-95-3	Dibromomethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
100-41-4	Ethyl Benzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		

Sample Information

Client Sample ID: MIP-FSK-19 (9-10ft) **York Sample ID:** 18G1174-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G1174	1602600.06.1	Soil	July 26, 2018 8:08 am	07/27/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
79-20-9	Methyl acetate	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-87-2	Methylcyclohexane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
75-09-2	**Methylene chloride**	**5.0**	J	ug/kg dry	3.6	7.1	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
104-51-8	n-Butylbenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
103-65-1	n-Propylbenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
95-47-6	o-Xylene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PA		
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	3.6	7.1	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,PA		
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
135-98-8	sec-Butylbenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
100-42-5	Styrene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PAL		
98-06-6	tert-Butylbenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
127-18-4	**Tetrachloroethylene**	**6.8**		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
108-88-3	Toluene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
110-57-6	* trans-1,4-dichloro-2-butene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH		
79-01-6	Trichloroethylene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		
75-01-4	Vinyl Chloride	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications:	CTDOH,NELAC-NY10854,NELAC-NY12058,NJ		

Sample Information

Client Sample ID: MIP-FSK-19 (9-10ft) **York Sample ID:** 18G1174-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
18G1174	1602600.06.1	Soil	July 26, 2018 8:08 am	07/27/2018

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	Xylenes, Total	ND		ug/kg dry	5.4	11	1	EPA 8260C	08/01/2018 07:30	08/01/2018 12:17	RDS
								Certifications: CTDOH,NELAC-NY10854,NELAC-NY12058,NJ			

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*113 %*	*77-125*
2037-26-5	*Surrogate: Toluene-d8*	*103 %*	*85-120*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*98.2 %*	*76-130*

Total Solids

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**88.1**		%	0.100	1	SM 2540G	08/02/2018 23:24	08/03/2018 04:05	AA
							Certifications: CTDOH			

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
18G1174-01	MIP-FSK-Composite	8 oz. WM Clear Glass Cool to 4° C
18G1174-01	MIP-FSK-Composite	40mL 01_Clear Vial Cool to 4° C
18G1174-02	MIP-FSK-20 (5-6ft)	40mL Vial with Stir Bar-Cool 4° C
18G1174-03	MIP-FSK-19 (9-10ft)	40mL Vial with Stir Bar-Cool 4° C

Sample and Data Qualifiers Relating to This Work Order

VOA-CONT	Non-Compliant - the container(s) provided by the client for soil volatiles do not meet the requirements of EPA SW846-5035A. Results reported below 200 ug/kg may be biased low due to samples not being collected according to EPA SW846 5035A requirements.
S-HI	Surrogate recovery is above acceptance limits. No target compound is detected in sample.
S-08	The recovery of this surrogate was outside of QC limits.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-SRD1	The serial dilution for this element was outside control limits.
M-MBLk	Analyte was detected in the batch method blank above the Reporting Limit.
M-ICV	The recovery for this element in the ICV was outside the 95-105% Recovery criteria for EPA 200.7
M-EBlk	This element was detected in the TCLP or SPLP fluid extraction blank > than the Reporting Limit.
M-CRL	The RL check for this element recovered outside of control limits.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
IGN-01	Non-Ignit.
EXT-COMP	Completed
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Revision Description: This report has been revised to include the correct Chain of Custody.

York Analytical Laboratories, Inc.
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Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 18G1174

Page ____ of ____

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: GEI CONSULTANTS	Company: Same	Company: Same	1602600.06-1	RUSH - Next Day
Address: 455 Winding Brook Dr Glastonbury, CT 06033	Address:	Address:	YOUR Project Name: Former Safety Kleen Dry cleaners	RUSH - Two Day
Phone: 860-368-5300	Phone.:	Phone.:		RUSH - Three Day
Contact: Matt O'Neil	Contact:	Contact:		RUSH - Four Day
E-mail: moneil@geiconsultants.com	E-mail:	E-mail:	YOUR PO#: 1602600.06-1	Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Chris Ricardo

Samples Collected by: (print your name above and sign below)

Matrix Codes	Samples From	
S - soil / solid	New York	X
GW - groundwater	New Jersey	
DW - drinking water	Connecticut	
WW - wastewater	Pennsylvania	
O - Oil ; Other	Other	

Report / EDD Type (circle selections)

(Summary Report)	CT RCP	(Standard Excel EDD)
QA Report	CT RCP DQA/DUE	EQuIS (Standard)
NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EQuIS
NY ASP B Package	NJDKQP	NJDEP SRP HazSite
		Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
MIP-FSK-Composite-Chain 1	S	7-26-18 1202	~~8260 VOC~~, Total & TCLP RC metals, PCB	2-Terracores via
MIP-FSK-20 (5-6 ft)	S	7-26-18 0850	8260 VOC	Sets @ 1-802 ea
MIP-FSK-19 (9-10 ft)	S	7-26-18 0808	8260 VOC	

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
			7/27/18 1145		7/27/18 1168
Samples Received by / Company	**Date/Time**	**Samples Relinquished by / Company**	**Date/Time**	**Samples Received by / Company**	**Date/Time**
Samples Relinquished by / Company	**Date/Time**	**Samples Received by / Company**	**Date/Time**	**Samples Received in LAB by** Date/Time	**Temp. Received at Lab**
				Pace 7-27-18 1108	2.9 Degrees C

York Analytical Laboratories, Inc.
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www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 186-1174

Page ____ of ____

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: GEI CONSULTANTS	Company: Same	Company: Same	1602600.06.1	RUSH - Next Day
Address: 455 Winding Brook Dr. Glastonbury, CT 06033	Address:	Address:	YOUR Project Name: Former Safety Kleen Dry cleaners	RUSH - Two Day
Phone: 860-368-5300	Phone:	Phone:		RUSH - Three Day
Contact: Matt O'Neil	Contact:	Contact:		RUSH - Four Day
E-mail: MOneil@geiconsultants.com	E-mail:	E-mail:	YOUR PO#: 1602600.06.1	Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Chris Arcudo
Samples Collected by: (print your name above and sign below)

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From
New York X
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)
(Summary Report) CT RCP (Standard Excel EDD)
QA Report CT RCP DQA/DUE EQuIS (Standard)
NY ASP A Package NJDEP Reduced Deliverables NYSDEC EQuIS
NY ASP B Package NJDEP SRP HazSite
NJDKQP Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
MP-FSK-Composite-Chain 2	S	7-26-18 1202	DRO, GRO, Total cVOC	1 8oz jar

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ___
Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
	7/27/18 0945		7/27/18 1145		7/27/18 1145
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
					1108 7-27-18 29C Degrees

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

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YORK Project No. 18G1174

Page ____ of ____

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: GET CONSULTANTS	Company: Same	Company: Same	1602600-06-1	RUSH - Next Day
Address: 455 Winding Brook Dr. Glastonbury, CT 06033	Address:	Address:	YOUR Project Name: Former Safety Kleen Dry Cleaners	RUSH - Two Day
Phone: 860-365-5300	Phone:	Phone:		RUSH - Three Day
Contact: Matt O'Neil	Contact:	Contact:		RUSH - Four Day
E-mail: MOneil@geiconsultants.com	E-mail:	E-mail:	YOUR PO#: 1602600-06-1	Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Chris Aicudo

Samples Collected by: (print your name above and sign below)

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From
New York X
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)
(Summary Report) CT RCP (Standard Excel EDD)
QA Report CT RCP DQA/DUE EQuIS (Standard)
NY ASP A Package NJDEP Reduced Deliverables NYSDEC EQuIS
NY ASP B Package NJDKQP NJDEP SRP HazSite
Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
MIP-FSK-Composite-Chain 3	S	7-26-18 1202	TCLP VOC & TCLP SVOC & Herbicides	1-4oz and 1-8oz jars

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
	7/27/18 0945		7/27/18 9:47		7/27/18 11:05
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				FedEx	7-27-18 1109 @ 2.9 Degrees C

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www.yorklab.com

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YORK Project No. 18G1174

Page ____ of ____

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: GEI CONSULTANTS	Company: Same	Company: Same	1602600.06.1	RUSH - Next Day
Address: 455 Winding Brook Dr. Glastonbury, CT 06033	Address:	Address:	YOUR Project Name: Former Safety Kleen Dry Cleaners	RUSH - Two Day
Phone: 860-368-5300	Phone:	Phone:		RUSH - Three Day
Contact: Matt O'Neil	Contact:	Contact:		RUSH - Four Day
E-mail: mpneil@geiconsultants.com	E-mail:	E-mail:	YOUR PO#: 1602600.06.1	Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Chris Akudo

Samples Collected by: (print your name above and sign below)

Matrix Codes	Samples From		Report / EDD Type (circle selections)			YORK Reg. Comp.
S - soil / solid	New York	X	(Summary Report)	CT RCP	(Standard Excel EDD)	Compared to the following Regulation(s): (please fill in)
GW - groundwater	New Jersey		QA Report	CT RCP DQA/DUE	EQuIS (Standard)	
DW - drinking water	Connecticut		NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EQuIS	
WW - wastewater	Pennsylvania		NY ASP B Package		NJDEP SRP HazSite	
O - Oil ⋮ Other	Other			NJDKQP	Other:	

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
MIP-FSIC-Composite-chain 4	S	7-26-18 1202	RCRA xtended	1-8oz jar

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ___
Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
	7/27/18 0945		7/27/18 1605		7/27/18 1103
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
					7-27-18 1108 2.9 Degrees

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YORK Project No. 18G1174

Page ____ of ____

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: GEI Consultants	Company: Same	Company: Same	1602600.06.1	RUSH - Next Day
Address: 455 Winding Brook Dr Glastonbury, CT 06033	Address:	Address:	YOUR Project Name: Former Safety Kleen Dry cleaners	RUSH - Two Day
Phone: 860-368-5300	Phone:	Phone:		RUSH - Three Day
Contact: Matt O'Neil	Contact:	Contact:		RUSH - Four Day
E-mail: moneil@geiconsultants.com	E-mail:	E-mail:	YOUR PO#:	Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)
Chris Arcudo

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil ; Other

Samples From
New York X
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)
Summary Report (circled) | CT RCP | Standard Excel EDD (circled)
QA Report | CT RCP DQA/DUE | EQuIS (Standard)
NY ASP A Package | NJDEP Reduced Deliverables | NYSDEC EQuIS
NY ASP B Package | NJDKQP | NJDEP SRP HazSite
Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
MP-FSK-Composite-Chain 5	S	7-26-18 1202	Total SVOC and TCLP Pesticide	1-8oz jar

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ____
Lab to Filter ____

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Chris Arcudo	7/27/18 0945		7/27/18 1647		7/27/18 1708
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
					7-27-18 NCF 02.9 Degrees C

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YORK Project No. 18G1174

Page ____ of ____

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: GEI CONSULTANTS	Company: Same	Company: Same	1602600.06.1	RUSH - Next Day
Address: 455 Winding Brook Dr. Glastonbury, CT 06033	Address:	Address:	YOUR Project Name: Former Safety Kleen Dry cleaners	RUSH - Two Day
Phone: 860-368-5300	Phone:	Phone:		RUSH - Three Day
Contact: Matt O'Neil	Contact:	Contact:		RUSH - Four Day
E-mail: MONeil@geiconsultants.com	E-mail: moneil@geiconsultants.com	E-mail:	YOUR PO#: 1602600.06.1	Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Chris Atudo

Samples Collected by: (print your name above and sign below)

Chris

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)

(Summary Report) CT RCP (Standard Excel EDD)
QA Report CT RCP DQA/DUE EQuIS (Standard)
NY ASP A Package NJDEP Reduced Deliverables NYSDEC EQuIS
NY ASP B Package NJDEP SRP HazSite
NJDKQP Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
MIP-FSK-Composite-Chain 6	S	7-26-18 1202	NJ EPH	1-8oz jar

Comments:

Preservation: (check all that apply)
HCl ___ MeOH ___ HNO_3 ___ H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: ___

Special Instruction
Field Filtered ___
Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Chris 7	7/27/18 0945		7/27/18 1645		7/27/18 1705
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temp. Received at Lab
				Alyssa	7-27-18 1705 2.9 °C Degrees

Attachment 3

Appendix B. Daily Maximum 15-Minute Average Concentrations of TVOC and PM-10
Former Safety Clean Dry Cleaners Site - Community Air Monitoring Plan
The Rosen Group
New Windsor, New York

	TVOC (ppmv)		PM-10 (ug/m^3)	
Alert Limit	3.7 ppm		-	
Response Limit	-		100 ug/m^3	
Action Limit	5.0 ppm		150 ug/m^3	
Date	**Upwind**	**Downwind**	**Upwind**	**Downwind**
Mon 7/23/2018	1.83	0.81	18.7	27.1
Tue 7/24/2018	0.32	0.44	21.3	31.9
Wed 7/25/2018	0.24	0.05	13.9	26.9
Thu 7/26/2018	0.27	0.25	22.2	10.4

Notes:

ug/m^3 = micrograms per cubic meter
ppm = parts per million by volume
TVOC = total volatile organic compounds
PM-10 = particulate matter (i.e. dust) less than 10 microns in diameter

Attachment 4

MIP Crew During Investigation

Soil Core Sample

Demolished Former Dry Cleaner Unit