



Quarterly Groundwater, Surface Water and Sediment Sampling Report, Q2 (May 2023) Saranac Lake Gas Co. (516008) Saranac Lake, New York

Prepared for

New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233



Prepared by

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July 2024
Version: FINAL
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A handwritten signature in blue ink, appearing to read "Joshua Oliver".

Joshua Oliver, P.G. Project Manager
EA Science and Technology

19 July 2024

Date

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LIST OF ACRONYMS AND ABBREVIATIONS

µg/L	Microgram(s) per liter
AWQS	Ambient Water Quality Standards
COC	Contaminant of concern
DO	Dissolved oxygen
EA	Engineering, P.C. and its affiliate EA Science and Technology
EPA	U.S. Environmental Protection Agency
ft	Foot (feet)
GC	Gas chromatography
mg/L	Milligram(s) per liter
MGP	Manufactured gas plant
MS	Matrix spike
MSD	Matrix spike duplicate
NYSDEC	New York State Department of Environmental Conservation
ORP	Oxidation-reduction potential
OU	Operable unit
PAH	Polycyclic aromatic hydrocarbon
P.E.	Professional Engineer
P.G.	Professional Geologist
pH	Potential hydrogen
QA	Quality assurance
QC	Quality control
RI	Remedial investigation
Site	Saranac Lake Gas Co.
SMP	Site Management Plan
SVOC	Semivolatile organic compound

1. INTRODUCTION

The New York State Department of Environmental Conservation (NYSDEC) tasked EA Engineering, P.C. and its affiliate EA Science and Technology (EA) to perform site management activities at the Saranac Lake Gas Co. Site (NYSDEC Site Number 516008), which includes evaluation and performance of long-term monitoring of groundwater, surface water, and sediment. The Site is in a suburban area of Essex County in Saranac Lake, New York (**Figure 1**).

From the late 1800s to approximately the 1940s, former manufactured gas plant (MGP) Saranac Lake Gas Co. manufactured lighting gas (coal gasification) for the village of Saranac Lake, and during this time, released MGP-waste into the environment at operable unit (OU) 01, and it appeared that direct surface discharge of waste occurred to Brandy Brook (OU02) and migrated to Pontiac Bay of Lake Flower (OU03). Non-aqueous phase liquids and residual products are present within OU01 and impacting groundwater migrating from the Site. NYSDEC initiated a Remedial Investigation (RI)/Feasibility Study to determine the extent of the contamination present in the environment related to the historical activities at the former MGP. RI field investigations were completed at the Site between August 2013 and October 2014. The RI included an evaluation of visual impacts to groundwater, sediment, soil, and surface water, and concluded that groundwater, sediment, surface water, and soil on-site were impacted with MGP waste. Following the issuance of the RI report¹, Feasibility Studies were developed for OU01, OU02, and OU03 which led to remedial activities that took place between May and December 2018 at OUs 02 and 03, and between April 2021 and June 2022 at OU01. As part of the ongoing site investigations for the Site, EA is collecting quarterly groundwater, sediment, and surface water samples to evaluate how contaminant of concern (COC) concentrations respond if the plume migrates.

1.1 OBJECTIVES

Post-OU01 remediation media monitoring and sampling is being conducted at the Site as required by the NYSDEC in accordance with the Site Management Plan (SMP)¹. The SMP calls for quarterly monitoring and sampling of groundwater, surface water, and sediment for polycyclic aromatic hydrocarbons (PAHs)/semivolatile organic compounds during the first two years following completion of remediation of OU01, biannually during the third year, and annually in all subsequent years. The objective of the monitoring and sampling program is to evaluate the effectiveness of the remedy within OU02 and OU03. The sampling program was initiated in the second quarter (Q2) of 2022 (July) following completion of the OU01 remediation conducted from 12 April 2021 to 2 June 2022.

This report presents the results of the quarterly sampling event conducted in the second quarter (Q2) of 2023 (May 2023). The May 2023 event is the third post-OU01 remediation media monitoring and sampling event.

¹ MACTEC Engineering and Consulting, P.C. (MACTEC) 2023. *Site Management Plan OU01, OU-2, & OU03 Saranac Lake Gas Company, Inc. Site #516008*. June.

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2. MONITORING ACTIVITIES

The May 2023 media monitoring and sampling event was conducted from 30 to 31 May 2023. Field activities included gauging and sampling of groundwater monitoring wells and collection of surface water and sediment samples. Sampling locations are presented on **Figure 2a** (OU01) and **Figure 2b** (OU02 and OU03). A summary of samples collected during the May 2023 event is provided in **Table 1**. Daily field reports are included in **Appendix A**.

2.1 GROUNDWATER GAUGING

Groundwater levels and well depths were recorded at 10 wells and piezometers (MW-104, MW-106R, MW-108R, MW-110R, MW-204S, MW-204D, MW-205S, MW-205D, PZ-PV1, and PZ-PV2) on 30 May 2023, prior to the initiation of groundwater sampling to determine groundwater flow patterns in the overburden. PZ-301 was not gauged or sampled pending a signed access agreement. Piezometers PZ-PV1 and PZ-PV2 are not included in the sampling program but are gauged in accordance with the SMP. Groundwater levels and well depths were measured with an electronic water level and recorded to the nearest hundredth of a foot (ft) from a designated measuring point on top of the inner polyvinyl chloride the well casing (top of riser). Groundwater elevations and well depths are provided in **Table 2**, and monitoring well gauging logs are provided in **Appendix B**. Groundwater flows southwest at the site, and groundwater elevation contours are provided in **Figure 3**.

2.2 GROUNDWATER SAMPLING

Groundwater samples were collected from eight monitoring wells (MW-104, MW-106R, MW-108R, MW-110R, MW-204S, MW-204D, MW-205S, and MW-205D) using low-flow sampling techniques. Wells were purged using a peristaltic pump, with a flow rate of approximately 0.2 liters per minute. Dedicated high density polyethylene tubing was used at each monitoring well location. Drawdown was monitored to the hundredth of a ft. at 3-minute intervals throughout purging using an electronic water level meter. Water quality parameters including temperature, pH, conductivity, dissolved oxygen, oxidation reduction potential, and turbidity were monitored at 3-minute intervals throughout purging using a Horiba-U-52 water quality meter equipped with a flow-through cell. Sampling instruments were calibrated daily prior to starting sampling activities, or as needed throughout the day. A log of the field equipment calibration records is provided in **Appendix B**. Water levels and water quality parameters were recorded on groundwater sampling purge forms provided in **Appendix B**.

- Purge rate (milliliters per minute)
- Depth to water (0.01 ft)
- Temperature (degrees Celsius)
- pH
- Specific conductance (Siemens per centimeter)
- Dissolved oxygen (DO) (milligrams per liter [mg/L])
- Oxidation-reduction potential (ORP) (millivolts)
- Turbidity (nephelometric turbidity units [NTU])

Purging was considered complete when the indicator parameters had stabilized over three consecutive readings, indicating that formation water was being drawn. Stabilization parameters were as follows:

- Drawdown: less than 0.3 ft drawdown during purging
- pH: ± 0.1 standard unit
- Specific Conductivity: ± 3 percent (%)
- DO: ± 10 % (mg/L) for values greater than 0.5 mg/L or 3 readings < 0.5 mg/L
- ORP: ± 10 mV
- Turbidity: < 5 NTU or $\pm 10\%$ for readings > 5 NTU

Two monitoring wells (MW-106R and MW-110R) exhibited high turbidity and were sampled after purging for 2 hours. These wells will be considered for redevelopment during the upcoming quarterly sampling event. Depths to water at MW-104, MW-108R, MW-110R, and MW-204S were not continuously measured throughout purging due to small PVC diameter not accommodating for tubing and water level meter simultaneously.

Following stabilization of groundwater field parameters, the flow-through cell was disconnected from the dedicated sample tubing. Groundwater samples were collected directly from the tubing into the laboratory supplied sample containers for off-site laboratory analysis of PAHs by U.S. Environmental Protection Agency (EPA) method 8270E. EPA Method. Quality assurance (QA)/quality control (QC) samples collected for groundwater samples included one matrix spike (MS)/matrix spike duplicate (MSD) and one field duplicate. Sample handling is presented in Section 2.5.

Non-dedicated sampling equipment (i.e., the water-level indicator) was decontaminated between sampling locations with Alconox[®] detergent and deionized water to prevent cross-contamination. Purge water and decontamination water was disposed of through a 5-gallon carbon filtration bucket to ground surface.

2.3 SURFACE WATER SAMPLING

Surface water samples were collected from three locations in Brandy Brook (OU02) (SW-400, SW-401, SW-402) and one location in Pontiac Bay (OU03) (SW-403). QA/QC samples collected for surface water included one MS/MSD and one field duplicate. Samples were collected in order from downstream to upstream to avoid the incidental inclusion of disturbed sediment in the samples. Surface water samples were collected using 6-inch long by 1.6-inch diameter bailers without disturbing bottom sediment and poured into laboratory-provided sample containers. Water quality parameters including temperature, pH, oxidation-reduction potential, conductivity, dissolved oxygen, and turbidity were measured at each location using a calibrated Horiba U-52 water quality meter. A log of the field equipment calibration records is provided in **Appendix B**. Water quality parameters were recorded on surface water sampling logs provided in **Appendix B**.

Each surface water sample was collected for off-site laboratory analysis of PAHs via EPA method 8270E. Samples are summarized in **Table 1**. Sample handling is presented in Section 2.5.

2.4 SEDIMENT SAMPLING

Sediment samples were collected from three locations in Brandy Brook (OU02) (SD-400, SD-401, and SD-402). QA/QC samples collected for sediment included one MS/MSD and one field duplicate. Each sample was collected from 0 to 0.5 ft below ground surface using dedicated sampling equipment (metal scoops) and composited in dedicated pans. Reusable sampling equipment was decontaminated between sampling locations with Alconox[®] detergent and deionized water to prevent cross-contamination. Standing water that had accumulated in sediment samples was decanted/removed prior to filling laboratory-provided sample containers. Sediment sample logs are provided in **Appendix B**.

Each sediment sample was collected for off-site laboratory analysis of PAHs via EPA method 8270E. Samples are summarized in **Table 1**. Sample handling is presented in Section 2.5.

2.5 SAMPLE HANDLING

Samples were collected using clean nitrile gloves and placed in laboratory supplied containers containing appropriate preservatives. Samples were placed on ice in sample coolers immediately after collection to ensure proper preservation. Pertinent sample information was recorded on the associated chain-of-custody, and samples were shipped overnight via Federal Express shipping to Con-Test Analytical laboratory in East Longmeadow, Massachusetts under secure chain-of-custody protocol.

2.6 INVESTIGATION-DERIVED WASTE

Purge water and decontamination fluids generated during groundwater sampling activities was disposed of through a 5-gallon bucket containing granulated activated carbon (GAC) designed to filter water at the well head. Non-contaminated trash and debris (wastepaper, food and beverage containers, and expendables) was placed in a trash dumpster and disposed of by a local garbage hauler. Expendable materials used during the investigation (i.e., used tubing, nitrile gloves, etc.) were double-bagged and properly disposed of as general debris/trash.

2.7 LABORATORY ANALYSIS

Off-site laboratory analytical services for groundwater, surface water, and sediment were provided by Con-Test Analytical laboratory in East Longmeadow, Massachusetts. Laboratory analytical reports are provided in **Appendix C**.

2.8 DATA VALIDATION AND DATA USABILITY

Upon receipt of the analytical laboratory reports, a preliminary review of the data was performed by EA to verify that all the necessary paperwork, such as chains-of-custody, analytical reports, and deliverable packages, were present. Sample delivery groups were then sent to an independent third-party validator, Environmental Data Services, LTD. for validation. Data validation included a review of pertinent QA/QC data such as sample extraction and analysis, holding times, calibration, a review of laboratory blanks and QA/QC sample results, and a review of the analytical case

narrative. The analytical data were qualified and appropriately flagged by the data validator. Separate Data Usability Summary Reports, provided in **Appendix D**, were prepared for each sample delivery group associated with the RI and reviewed the following questions:

- Is the data package complete?
- Have all holding times been met?
- Do all the QC data—blanks, instrument tunings, calibration standards, calibration verifications, surrogate recoveries, spike recoveries, replicate analyses, laboratory controls, and sample data—fall within the protocol required limits and specifications?
- Have all of the data been generated using established and agreed upon analytical protocols?
- Does an evaluation of the raw data confirm the results provided in the data summary sheets and QC verification forms?
- Have the correct data qualifiers been used?

The following items/criteria were reviewed for samples:

- Case narrative and deliverables compliance
- Holding times, both technical and procedural, and sample preservation (including pH and temperature)
- System monitoring compound (surrogate) recoveries and summaries
- MS/MSD results, recoveries, and summaries
- Blank spike results, recoveries, and summaries
- Method blank results and summaries
- Gas chromatography (GC)/mass spectroscopy tuning and performance
- Initial and continuing calibration summaries
- Internal standard areas, retention times, and summaries
- Field and trip blank data, when applicable
- Blind field duplicate sample results, when applicable
- Gas chromatography/electron capture detector Instrument Performance Check

- Organic analysis data sheets (Form 1)
- GC/mass spectroscopy and GC chromatograms, mass spectra, and quantitation reports
- Quantitation/detection limits
- Qualitative and quantitative compound identification.

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3. POLYCYCLIC AROMATIC HYDROCARBON ANALYTICAL RESULTS

COCs in aqueous and sediment media for the site are PAHs. Concentrations of the COCs for the Site serve as a metric to evaluate contaminant plume migration following remedial action.

3.1 GROUNDWATER PAH RESULTS

Groundwater analytical results were compared to the NYSDEC Class GA groundwater standards and guidance values (6 New York Code of Rules and Regulations Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended). Acenaphthene, naphthalene, and phenanthrene were detected at concentrations in exceedance of NYSDEC Class GA guidance values (50, 10, and 50 micrograms per liter [$\mu\text{g/L}$], respectively) at the following wells:

- Acenaphthene: MW-104, MW-106R, and MW-205D
- Naphthalene: MW-104, MW-106R, MW-204D, MW-204S, and MW-205D
- Phenanthrene: MW-104

Maximum concentrations for each analyte were detected at the corresponding wells:

- Acenaphthene: MW-104 with a concentration of 94 $\mu\text{g/L}$
- Naphthalene: MW-205D with a concentration of 2300 $\mu\text{g/L}$
- Phenanthrene: MW-104 with a concentration of 52 $\mu\text{g/L}$

PAH concentrations for wells sampled in May 2023 are summarized in **Table 3** and presented on **Figure 4**. Analytical results tables contain data from this sampling event and historical data for comparison. Laboratory reports are presented in **Appendix C**.

3.2 SURFACE WATER PAH RESULTS

Surface water analytical results were compared to the NYSDEC Class GA standards and guidance values (6 New York Code of Rules and Regulations Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended). PAHs were not detected in surface water samples collected during the May 2023 sampling event, and therefore there were no exceedances of surface water standards and guidance values. Since EPA Method 8270 was used for analysis instead of EPA Method 8270SIM, detection limits may not have been low enough to detect smaller amounts of PAHs in the surface water samples. Analytical results are summarized in **Table 4** and laboratory reports are presented in **Appendix C**.

3.3 SEDIMENT PAH RESULTS

Sediment analytical results were compared to the NYSDEC Class A Sediment Guidance Values for PAHs (Total PAH concentration <4 milligrams per kilogram). Pyrene was the only PAH detected in sediment, with an estimated concentration of 0.084 milligrams per kilogram at SD-402; therefore, there were no exceedances of Class A sediment guidance values. Analytical results are

summarized in **Table 5** and laboratory reports are presented in **Appendix C**. The Data Validation Report is presented in **Appendix D**.

4. CONCLUSIONS AND FUTURE INVESTIGATION

In accordance with the SMP, post-OU01 remediation media monitoring and sampling will continue so that COC concentration trends can be monitored and evaluated over time. The analytical results from this sampling event will serve as a baseline for future sampling events. Upon completion of the appropriate number of sampling events, Mann-Kendall Statistical analysis will be performed to determine if statistical trends exist between results from their respective sampling events. The results of these statistical analyses be used to determine if future RI and remedial action are warranted.

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5. REFERENCES

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Tables

Table 1. Summary of Samples Collected (May 2023)

Location ID	Sample ID	Sample Date	Sample Time	MS/ MSD	Analysis
Groundwater Samples					
MW-204S	516008-MW-204S	05/30/2023	1306	N	EPA method 8270
MW-106R	516008-MW-106R	05/30/2023	1327	N	EPA method 8270
MW-204D	516008-MW-204D	05/30/2023	1411	Y	EPA method 8270
MW-205S	516008-MW-205S	05/30/2023	1535	N	EPA method 8270
MW-104	516008-MW-104	05/30/2023	1616	N	EPA method 8270
MW-205D	516008-MW-205D	05/30/2023	1635	N	EPA method 8270
MW-108R	516008-MW-108R	05/31/2023	0830	N	EPA method 8270
MW-110R	516008-MW-110R	05/31/2023	1001	N	EPA method 8270
Surface Water Samples					
SW-400	516008-SW-400	05/31/2023	1105	N	EPA method 8270
SW-401	516008-SW-401	05/31/2023	1138	N	EPA method 8270
SW-402	516008-SW-402	05/31/2023	1241	Y	EPA method 8270
SW-403	516008-SW-403	05/31/2023	1320	N	EPA method 8270
Sediment Samples					
SD-400	516008-SD-400	05/31/2023	1110	Y	EPA method 8270
SD-401	516008-SD-401	05/31/2023	1148	N	EPA method 8270
SD-402	516008-SD-402	05/31/2023	1251	N	EPA method 8270
QC Samples					
Associated Parent Sample	Sample ID	Sample Date	Sample Time	QC Type	
516008-MW-108R	516008-FD-GW	05/31/2023	-	FD	
516008-SW-401	516008-FD-SW	05/31/2023	-	FD	
516008-SD-401	516008-FD-SD	05/31/2023	-	FD	

Notes:

FD = Field Duplicate

ID = Identification

MS = Matrix spike

MSD = Matrix spike duplicate

MW = Monitoring well

QC = Quality control

SD = Sediment

SW = Surface water

Table 2. Well Construction Details and Groundwater Elevations (May 2023) Saranac Lake Gas Co. Site (516008)

Location ID	Northing	Easting	Top of Casing Elevation (ft amsl)	Riser Elevation (ft amsl)	Ground Surface Elevation (ft amsl)	TOC (ft ags)	TOC - TOR (ft)	Bottom of Well (ft BTOR)	Screening Interval (ft bgs)	DTW (ft bgs) (May 2023)	GW Elevation (ft) May 2023
MW-104	1999833.87	592054.19	1545.27	1544.85	1542.3	3.0	0.42	19.4	6.4 - 16.4	6.8	1538.05
MW-106R	1999720.17	592160.58	1544.09	1541.39	1543.9	2.7	2.7	14.5	4.3 - 14.3	6.15	1535.24
MW-108R	1999558.44	592455.82	1547.42	1544.52	1547.2	2.9	2.9	19.2	9.0 - 19.0	13.65	1530.87
MW-110R	1999536.11	592196.40	1547.33	1543.73	1546.1	3.6	3.6	20.1	9.9 - 19.9	12.34	1531.39
MW-204S	1999285.76	592255.49	1546.53	1546.29	1543.5	3.0	0.24	28.3	10.3 - 25.3	12.96	1533.33
MW-204D	1999286.15	592260.28	1546.95	1546.95	1547	3.0	0	29.7	19.5 - 29.5	13.36	1533.59
MW-205S	1999119.02	592297.69	1545.44	1545.24	1542.5	2.9	0.2	19.6	9.6 - 19.6	11.92	1533.32
MW-205D	1999124.3	592295.88	1545.52	1545.37	1542.4	3.1	0.15	33.5	20.4 - 30.4	11.93	1533.44
PZ-301	1999930.6	591913.4	1544.3	1544.3	1540	4.3	0	12.0	2.0 - 12.0	NM	--
PZ-PV1	1999452.523	592713.030	1546.9	1546.6	1547	3.1	0.3	15.1	4.8 - 14.8	10.85	1535.75
PZ-PV2	1999775.970	592560.119	1548.1	1547.8	1545	0	0.3	15.1	4.9 - 14.9	7.19	1540.61

Notes:

ags = Above ground surface

amsl = Above mean sea level

bgs = Below ground surface

DTW = Depth to water

ft = Foot (feet)

GW = Groundwater

MW = Monitoring well

NM = Not measured

TOC = Top of casing

TOR = Top of riser

Table 3. Summary of Groundwater COC Concentrations and Exceedances (May 2023 and Historical)

Location ID			MW-104	MW-104	MW-104	MW-104	MW-104	MW-104
Sample Name			MW-104	MW-104	MW-104	MW-104	MW-104	MW-104
Parent Sample ID								
Sample Date			7/21/2020	11/19/2020	2/24/2021	6/8/2021	10/20/2021	7/26/2022
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result
SVOCs (SW8270)								
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	NA	NA	< 0.032 U
2-Methylnaphthalene	NSL	µg/L	NA	NA	NA	NA	NA	NA
Acenaphthene	20	µg/L	96	130	64	73	85	76 J
Acenaphthylene	NSL	µg/L	110	140	96 J+	87	84	92 J
Anthracene	50	µg/L	12	12	11 J	7.8 J	5.1 J	8.1 J
Benzo(A)Anthracene	0.002	µg/L	3.1 J+	< 0.36 U	< 3.9 U	0.046 J	< 0.078 U	0.066 J
Benzo(A)Pyrene	NSL	µg/L	< 2.2 U	< 0.47 U	< 5.4 U	< 0.022 U	< 0.11 U	< 0.015 UJ
Benzo(B)Fluoranthene	0.002	µg/L	< 2.4 U	< 0.34 U	< 6.0 U	< 0.024 U	< 0.12 U	< 0.016 UJ
Benzo(G,H,I)Perylene	NSL	µg/L	< 3.5 U	< 0.35 U	< 8.8 U	< 0.035 U	< 0.18 U	< 0.018 UJ
Benzo(K)Fluoranthene	0.002	µg/L	< 2.8 U	< 0.73 U	< 7.0 U	< 0.028 U	< 0.14 U	< 0.012 UJ
Chrysene	0.002	µg/L	3.5 J+	< 0.33 U	< 7.5 U	0.037 J	< 0.15 U	0.061 J
Dibenz(A,H)Anthracene	NSL	µg/L	< 2.0 U	< 0.42 U	< 5.0 U	< 0.020 U	< 0.10 U	< 0.018 UJ
Fluoranthene	50	µg/L	6.2 J+	4 J	< 9.8 U	2.6	2.3	3.3 J
Fluorene	50	µg/L	58	58	38 J	40	52 J	36 J
Indeno(1,2,3-C,D)Pyrene	0.002	µg/L	< 3.6 U	< 0.47 U	< 9.1 U	< 0.036 U	< 0.18 U	< 0.018 UJ
Naphthalene	10	µg/L	250	1100	760	700	820	320 J
Phenanthrene	50	µg/L	53	78 J	33 J	22 J	52 J	49 J
Pyrene	50	µg/L	7.8 J+	7	< 7.9 U	3.4	3.9	4.5 J

(1) NYSDEC Class GA groundwater standards and guidance values (6 NYCRR Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).

µg/L = Microgram(s) per liter.

ng/L = Nanogram(s) per liter.

J = Concentration is estimated.

J+ = Concentration is estimated; biased high.

NA = Not analyzed.

NSL = No screening level

NYSDEC = New York State Department of Environmental Conservation.

SVOCs = Semivolatile organic compounds.

U = Analyte not detected.

Concentrations exceeding the screening level are shaded.

PZ-301 was not sampled in May 2023 due to access issues.

Table 3. Summary of Groundwater COC Concentrations and Exceedances (May 2023 and Historical)

Location ID			MW-104	MW-106R	MW-106R	MW-106R	MW-106R	MW-108R
Sample Name			516008-MW-104	MW-106R	MW-106RD	MW-106R	516008-MW-106R	MW-108R
Parent Sample ID					MW-106R			
Sample Date			5/30/2023	7/26/2022	7/26/2022	10/12/2022	5/30/2023	7/26/2022
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result
SVOCs (SW8270)								
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	< 0.031 U	< 0.034 U	NA	NA	< 0.032 U
2-Methylnaphthalene	NSL	µg/L	370	NA	NA	NA	140	NA
Acenaphthene	20	µg/L	94	NA	NA	26	39	NA
Acenaphthylene	NSL	µg/L	88	NA	NA	27	24	NA
Anthracene	50	µg/L	8.6	NA	NA	3.1	3.3 J	NA
Benzo(A)Anthracene	0.002	µg/L	< 0.45 U	NA	NA	0.34	< 0.46 U	NA
Benzo(A)Pyrene	NSL	µg/L	< 0.68 U	NA	NA	0.27	< 0.7 U	NA
Benzo(B)Fluoranthene	0.002	µg/L	< 0.53 U	NA	NA	0.28	< 0.55 U	NA
Benzo(G,H,I)Perylene	NSL	µg/L	< 0.66 U	NA	NA	0.18 J	< 0.68 U	NA
Benzo(K)Fluoranthene	0.002	µg/L	< 0.61 U	NA	NA	0.088 J	< 0.63 U	NA
Chrysene	0.002	µg/L	< 0.43 U	NA	NA	0.35	< 0.44 U	NA
Dibenz(A,H)Anthracene	NSL	µg/L	< 0.72 U	NA	NA	0.027 J	< 0.74 U	NA
Fluoranthene	50	µg/L	3.3 J	NA	NA	2.3	2.0 J	NA
Fluorene	50	µg/L	39	NA	NA	14	13	NA
Indeno(1,2,3-C,D)Pyrene	0.002	µg/L	< 0.76 U	NA	NA	0.16	< 0.78 U	NA
Naphthalene	10	µg/L	500	NA	NA	480	500	NA
Phenanthrene	50	µg/L	52	NA	NA	15	21	NA
Pyrene	50	µg/L	4.1 J	NA	NA	2.9	2.8 J	NA

(1) NYSDEC Class GA groundwater standards and guidance values (6 NYCRR Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).

µg/L = Microgram(s) per liter.

ng/L = Nanogram(s) per liter.

J = Concentration is estimated.

J+ = Concentration is estimated; biased high.

NA = Not analyzed.

NSL = No screening level

NYSDEC = New York State Department of Environmental Conservation.

SVOCs = Semivolatile organic compounds.

U = Analyte not detected.

Concentrations exceeding the screening level are shaded.

PZ-301 was not sampled in May 2023 due to access issues.

Table 3. Summary of Groundwater COC Concentrations and Exceedances (May 2023 and Historical)

Location ID			MW-108R	MW-108R	MW-108R	MW-110R	MW-110R	MW-110R
Sample Name			MW-108R	516008-MW-108R	516008-FD-GW	MW-110R	MW-110R	516008-MW-110R
Parent Sample ID					516008-MW-108R			
Sample Date			10/12/2022	5/31/2023	5/31/2023	7/26/2022	10/12/2022	5/31/2023
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result
SVOCs (SW8270)								
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	< 0.033 UJ	NA	NA
2-Methylnaphthalene	NSL	µg/L	NA	< 0.66 U	< 0.66 U	NA	NA	< 0.65 U
Acenaphthene	20	µg/L	23	< 0.52 U	< 0.52 U	NA	< 0.019 U	< 0.52 U
Acenaphthylene	NSL	µg/L	76	< 0.54 U	< 0.54 U	NA	< 0.015 U	< 0.54 U
Anthracene	50	µg/L	8.7	< 0.48 U	< 0.48 U	NA	< 0.012 U	< 0.48 U
Benzo(A)Anthracene	0.002	µg/L	2.9	< 0.45 U	< 0.45 U	NA	< 0.014 U	< 0.44 U
Benzo(A)Pyrene	NSL	µg/L	2.3	< 0.68 U	< 0.68 U	NA	< 0.015 U	< 0.67 U
Benzo(B)Fluoranthene	0.002	µg/L	1.9	< 0.53 U	< 0.53 U	NA	< 0.016 U	< 0.53 U
Benzo(G,H,I)Perylene	NSL	µg/L	1.2	< 0.66 U	< 0.66 UJ	NA	< 0.018 U	< 0.65 UJ
Benzo(K)Fluoranthene	0.002	µg/L	0.57	< 0.61 U	< 0.61 U	NA	< 0.012 U	< 0.61 U
Chrysene	0.002	µg/L	2.8	< 0.43 U	< 0.43 U	NA	< 0.013 U	< 0.43 U
Dibenz(A,H)Anthracene	NSL	µg/L	0.16	< 0.72 U	< 0.72 UJ	NA	< 0.018 U	< 0.71 UJ
Fluoranthene	50	µg/L	14	< 0.47 U	< 0.47 U	NA	< 0.013 U	< 0.46 U
Fluorene	50	µg/L	18	< 0.52 U	< 0.52 U	NA	< 0.017 U	< 0.52 U
Indeno(1,2,3-C,D)Pyrene	0.002	µg/L	1	< 0.76 U	< 0.76 UJ	NA	< 0.018 U	< 0.75 UJ
Naphthalene	10	µg/L	940	< 0.58 U	< 0.58 U	NA	0.055 J	< 0.57 U
Phenanthrene	50	µg/L	13	< 0.5 U	< 0.5 U	NA	< 0.016 U	< 0.49 U
Pyrene	50	µg/L	17	< 0.64 U	< 0.64 U	NA	< 0.014 U	< 0.63 U

(1) NYSDEC Class GA groundwater standards and guidance values (6 NYCRR Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).

µg/L = Microgram(s) per liter.

ng/L = Nanogram(s) per liter.

J = Concentration is estimated.

J+ = Concentration is estimated; biased high.

NA = Not analyzed.

NSL = No screening level

NYSDEC = New York State Department of Environmental Conservation.

SVOCs = Semivolatile organic compounds.

U = Analyte not detected.

Concentrations exceeding the screening level are shaded.

PZ-301 was not sampled in May 2023 due to access issues.

Table 3. Summary of Groundwater COC Concentrations and Exceedances (May 2023 and Historical)

Location ID			MW-204S	MW-204S	MW-204D	MW-204D	MW-205S	MW-205S
Sample Name			MW-204S	516008-MW-204S	MW-204D	516008-MW-204D	MW-205S	516008-MW-205S
Parent Sample ID								
Sample Date			7/27/2022	5/30/2023	7/27/2022	5/30/2023	7/27/2022	5/30/2023
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result
SVOCs (SW8270)								
1,4-Dioxane (P-Dioxane)	0.35	µg/L	< 0.033 U	NA	< 0.034 U	NA	< 0.032 U	NA
2-Methylnaphthalene	NSL	µg/L	NA	5.9	NA	13	NA	< 0.68 U
Acenaphthene	20	µg/L	1.9 J	3.7 J	9.3 J	8.8	2.6 J	1.3 J
Acenaphthylene	NSL	µg/L	1.2 J	17	53 J	38	5.6 J	< 0.56 U
Anthracene	50	µg/L	0.073 J	< 0.48 U	2.6 J	2.2 J	< 0.012 UJ	< 0.5 U
Benzo(A)Anthracene	0.002	µg/L	0.018 J	< 0.44 U	0.024 J	< 0.45 U	0.018 J	< 0.47 U
Benzo(A)Pyrene	NSL	µg/L	< 0.014 UJ	< 0.67 U	< 0.015 UJ	< 0.68 U	< 0.015 UJ	< 0.71 U
Benzo(B)Fluoranthene	0.002	µg/L	< 0.016 UJ	< 0.53 U	< 0.016 UJ	< 0.53 U	< 0.016 UJ	< 0.55 U
Benzo(G,H,I)Perylene	NSL	µg/L	< 0.017 UJ	< 0.65 U	< 0.018 UJ	< 0.66 U	< 0.018 UJ	< 0.69 U
Benzo(K)Fluoranthene	0.002	µg/L	< 0.012 UJ	< 0.61 U	< 0.012 UJ	< 0.61 U	< 0.012 UJ	< 0.64 U
Chrysene	0.002	µg/L	0.017 J	< 0.43 U	0.023 J	< 0.43 U	0.017 J	< 0.45 U
Dibenz(A,H)Anthracene	NSL	µg/L	< 0.018 UJ	< 0.71 U	< 0.018 UJ	< 0.72 U	< 0.018 UJ	< 0.75 U
Fluoranthene	50	µg/L	< 0.013 UJ	< 0.46 U	0.82 J	0.88 J	< 0.013 UJ	< 0.48 U
Fluorene	50	µg/L	2.4 J	3.3 J	12 J	13	1.6 J	0.62 J
Indeno(1,2,3-C,D)Pyrene	0.002	µg/L	< 0.018 UJ	< 0.75 U	< 0.018 UJ	< 0.76 U	< 0.018 UJ	< 0.79 U
Naphthalene	10	µg/L	< 0.026 UJ	200	280 J	190	27 J	< 0.6 U
Phenanthrene	50	µg/L	0.23 J	1.2 J	12 J	9.8	0.33 J	< 0.52 U
Pyrene	50	µg/L	< 0.014 UJ	< 0.63 U	0.74 J	0.90 J	< 0.014 UJ	< 0.66 U

(1) NYSDEC Class GA groundwater standards and guidance values (6 NYCRR Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).

µg/L = Microgram(s) per liter.

ng/L = Nanogram(s) per liter.

J = Concentration is estimated.

J+ = Concentration is estimated; biased high.

NA = Not analyzed.

NSL = No screening level

NYSDEC = New York State Department of Environmental Conservation.

SVOCs = Semivolatile organic compounds.

U = Analyte not detected.

Concentrations exceeding the screening level are shaded.

PZ-301 was not sampled in May 2023 due to access issues.

Table 3. Summary of Groundwater COC Concentrations and Exceedances (May 2023 and Historical)

Location ID			MW-205D	MW-205D	MW-205D	MW-205D	PZ-301	PZ-301
Sample Name			516008-MW205D025	516008-MW205D025D	MW-205D	516008-MW-205D	PZ-301	PZ-301
Parent Sample ID				516008-MW205D025				
Sample Date			9/26/2019	9/26/2019	7/27/2022	5/30/2023	7/21/2020	11/19/2020
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result	Result
SVOCs (SW8270)								
1,4-Dioxane (P-Dioxane)	0.35	µg/L	< 0.10 U	< 0.10 U	< 0.032 U	NA	NA	NA
2-Methylnaphthalene	NSL	µg/L	NA	NA	NA	140	NA	NA
Acenaphthene	20	µg/L	41	38 J	29 J	27	< 0.014 U	< 0.41 U
Acenaphthylene	NSL	µg/L	130	130	110 J	150	< 0.015 U	< 0.38 U
Anthracene	50	µg/L	2.8 J	< 7.0 U	1.9 J	2.6 J	< 0.0092 U	< 0.28 U
Benzo(A)Anthracene	0.002	µg/L	< 1.8 U	< 9.0 U	< 0.014 UJ	< 0.47 U	< 0.016 U	< 0.36 U
Benzo(A)Pyrene	NSL	µg/L	< 2.4 U	< 12 U	< 0.014 UJ	< 0.72 U	< 0.022 U	< 0.47 U
Benzo(B)Fluoranthene	0.002	µg/L	< 1.7 U	< 8.5 U	< 0.016 UJ	< 0.56 U	< 0.024 U	< 0.34 U
Benzo(G,H,I)Perylene	NSL	µg/L	< 1.8 U	< 8.8 U	< 0.017 UJ	< 0.7 U	< 0.035 U	< 0.35 U
Benzo(K)Fluoranthene	0.002	µg/L	< 3.7 U	< 18 U	< 0.012 UJ	< 0.65 U	< 0.028 U	< 0.73 U
Chrysene	0.002	µg/L	< 1.7 U	< 8.3 U	< 0.013 UJ	< 0.46 U	< 0.030 U	< 0.33 U
Dibenz(A,H)Anthracene	NSL	µg/L	< 2.1 U	< 11 U	< 0.018 UJ	< 0.76 U	< 0.020 U	< 0.42 U
Fluoranthene	50	µg/L	< 2.0 U	< 10 U	0.34 J	< 0.49 U	< 0.039 U	< 0.4 U
Fluorene	50	µg/L	20 J	21 J	24 J	26	< 0.012 U	< 0.36 U
Indeno(1,2,3-C,D)Pyrene	0.002	µg/L	< 2.4 U	< 12 U	< 0.018 UJ	< 0.81 U	< 0.036 U	< 0.47 U
Naphthalene	10	µg/L	2100	2000	1400 J	2300	< 0.12 U	0.82 J
Phenanthrene	50	µg/L	20 J	20 J	19 J	25	0.024 J	< 0.44 U
Pyrene	50	µg/L	< 1.7 U	< 8.5 U	0.28 J	< 0.68 U	< 0.031 U	< 0.34 U

(1) NYSDEC Class GA groundwater standards and guidance values (6 NYCRR Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).

µg/L = Microgram(s) per liter.

ng/L = Nanogram(s) per liter.

J = Concentration is estimated.

J+ = Concentration is estimated; biased high.

NA = Not analyzed.

NSL = No screening level

NYSDEC = New York State Department of Environmental Conservation.

SVOCs = Semivolatile organic compounds.

U = Analyte not detected.

Concentrations exceeding the screening level are shaded.

PZ-301 was not sampled in May 2023 due to access issues.

Table 3. Summary of Groundwater COC Concentrations and Exceedances (May 2023 and Historical)

Location ID			PZ-301	PZ-301	PZ-301	PZ-301	PZ-301
Sample Name			PZ-301	PZ-301	PZ-301	PZ-301	PZ-301
Parent Sample ID							
Sample Date			2/24/2021	6/8/2021	10/20/2021	7/27/2022	5/31/2023
Analyte	NYSDEC AWQS ¹	Unit	Result	Result	Result	Result	Result
SVOCs (SW8270)							
1,4-Dioxane (P-Dioxane)	0.35	µg/L	NA	NA	NA	< 0.033 U	NS
2-Methylnaphthalene	NSL	µg/L	NA	NA	NA	NA	NS
Acenaphthene	20	µg/L	< 0.014 U	< 0.014 U	0.043 J	0.075 J	NS
Acenaphthylene	NSL	µg/L	< 0.015 U	< 0.015 U	0.053	< 0.016 UJ	NS
Anthracene	50	µg/L	< 0.025 U	< 0.025 U	< 0.025 U	< 0.013 UJ	NS
Benzo(A)Anthracene	0.002	µg/L	< 0.016 U	< 0.016 U	< 0.016 U	< 0.015 UJ	NS
Benzo(A)Pyrene	NSL	µg/L	< 0.022 U	< 0.022 U	< 0.022 U	< 0.016 UJ	NS
Benzo(B)Fluoranthene	0.002	µg/L	< 0.024 U	< 0.024 U	< 0.024 U	< 0.017 UJ	NS
Benzo(G,H,I)Perylene	NSL	µg/L	< 0.035 U	< 0.035 U	< 0.035 U	< 0.019 UJ	NS
Benzo(K)Fluoranthene	0.002	µg/L	< 0.028 U	< 0.028 U	< 0.028 U	< 0.013 UJ	NS
Chrysene	0.002	µg/L	< 0.030 U	< 0.030 U	< 0.030 U	< 0.014 UJ	NS
Dibenz(A,H)Anthracene	NSL	µg/L	< 0.020 U	< 0.020 U	< 0.020 U	< 0.02 UJ	NS
Fluoranthene	50	µg/L	< 0.039 U	< 0.039 U	< 0.039 U	< 0.014 UJ	NS
Fluorene	50	µg/L	< 0.012 U	< 0.012 U	0.023 J	0.032 J	NS
Indeno(1,2,3-C,D)Pyrene	0.002	µg/L	< 0.036 U	< 0.036 U	< 0.036 U	< 0.019 UJ	NS
Naphthalene	10	µg/L	< 0.12 U	< 0.12 U	0.68	< 0.028 UJ	NS
Phenanthrene	50	µg/L	< 0.022 U	< 0.022 U	0.088	< 0.017 UJ	NS
Pyrene	50	µg/L	< 0.031 U	< 0.031 U	< 0.031 U	< 0.015 UJ	NS

(1) NYSDEC Class GA groundwater standards and guidance values (6 NYCRR Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).

µg/L = Microgram(s) per liter.
ng/L = Nanogram(s) per liter.
J = Concentration is estimated.
J+ = Concentration is estimated; biased high.
NA = Not analyzed.
NSL = No screening level
NYSDEC = New York State Department of Environmental Conservation.
SVOCs = Semivolatile organic compounds.
U = Analyte not detected.

Concentrations exceeding the screening level are shaded.

PZ-301 was not sampled in May 2023 due to access issues.

Table 4. Summary of Surface Water COC Concentrations (May 2023 and Historical)

Location ID Sample Name Parent Sample ID Sample Date				SW-400 SW-400 2/24/2021	SW-400 SW-400 6/8/2021	SW-400 SW-400 10/20/2021	SW-400 SW-400 7/28/2022	SW-400 516008-SW-400 5/31/2023	SW-401 SW-401 2/23/2021	SW-401 SW-401D SW-401 2/23/2021
Analyte	NYSDEC AWQS ¹	NYSDEC SW ²	Unit							
SVOCs (SW8270)										
1,4-Dioxane (P-Dioxane)	0.35	NSL	µg/L	NA	NA	NA	< 0.032 U	NA	NA	NA
2-Methylnaphthalene	NSL	NSL	µg/L	NA	NA	NA	NA	< 0.65 U	NA	NA
Acenaphthene	20	20	µg/L	< 0.014 U	< 0.014 U	0.028 J	NA	< 0.52 U	< 0.014 U	< 0.014 U
Acenaphthylene	NSL	NSL	µg/L	< 0.015 U	< 0.015 U	0.03 J	NA	< 0.54 U	< 0.015 U	< 0.015 U
Anthracene	50	NSL	µg/L	< 0.025 U	< 0.025 U	< 0.025 U	NA	< 0.48 U	< 0.025 U	< 0.025 U
Benzo(A)Anthracene	0.002	NSL	µg/L	< 0.016 U	< 0.016 U	< 0.016 U	NA	< 0.44 U	< 0.016 U	< 0.016 U
Benzo(A)Pyrene	NSL	NSL	µg/L	0.03 J	< 0.022 U	< 0.022 U	NA	< 0.67 U	< 0.022 U	< 0.022 U
Benzo(B)Fluoranthene	0.002	NSL	µg/L	< 0.024 U	< 0.024 U	< 0.024 U	NA	< 0.53 U	< 0.024 U	< 0.024 U
Benzo(G,H,I)Perylene	NSL	NSL	µg/L	< 0.035 U	< 0.035 U	< 0.035 U	NA	< 0.65 UJ	< 0.035 U	< 0.035 U
Benzo(K)Fluoranthene	0.002	NSL	µg/L	< 0.028 U	< 0.028 U	< 0.028 U	NA	< 0.61 U	< 0.028 U	< 0.028 U
Chrysene	0.002	NSL	µg/L	0.032 J	< 0.030 U	< 0.030 U	NA	< 0.43 U	< 0.030 U	< 0.030 U
Dibenz(A,H)Anthracene	NSL	NSL	µg/L	0.025 J+	< 0.020 U	< 0.020 U	NA	< 0.71 UJ	< 0.020 U	< 0.020 U
Fluoranthene	50	NSL	µg/L	< 0.039 U	< 0.039 U	< 0.039 U	NA	< 0.46 U	< 0.039 U	< 0.039 U
Fluorene	50	NSL	µg/L	< 0.012 U	< 0.012 U	0.019 J	NA	< 0.52 U	< 0.012 U	< 0.012 U
Indeno(1,2,3-C,D)Pyrene	0.002	NSL	µg/L	< 0.036 U	< 0.036 U	< 0.036 U	NA	< 0.75 UJ	< 0.036 U	< 0.036 U
Naphthalene	10	10	µg/L	< 0.12 U	< 0.12 U	0.49	NA	< 0.57 U	< 0.12 U	< 0.12 U
Phenanthrene	50	NSL	µg/L	0.024 J	< 0.022 U	0.089	NA	< 0.49 U	< 0.022 U	< 0.022 U
Pyrene	50	NSL	µg/L	0.034 J	< 0.031 U	< 0.031 U	NA	< 0.63 U	< 0.031 U	< 0.031 U

Notes:

(1) NYSDEC Class GA groundwater standards and guidance values (6 NYCRR Part 703.6 Ambient Water Quality Standards, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).

(2) NYSDEC Class A surface water standards and guidance values (6 NYCRR Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).

µg/L = Microgram(s) per liter

J = Concentration is estimated.

J+ = Concentration is estimated; biased high.

NA = Not analyzed

NSL = No screening level

NYSDEC = New York State Department of Conservation.

SVOCs = Semivolatile organic compounds.

U = Analyte not detected.

Concentrations exceeding the screening level are shaded.

Table 4. Summary of Surface Water COC Concentrations (May 2023 and Historical)

Location ID Sample Name Parent Sample ID Sample Date				SW-401 SW-401 6/8/2021	SW-401 SW-401D SW-401 6/8/2021	SW-401 SW-401 10/20/2021	SW-401 SW-401D SW-401 10/20/2021	SW-401 SW-401 7/28/2022	SW-401 SW-401D SW-401 7/28/2022	SW-401 516008-SW-401 5/31/2023
Analyte	NYSDEC AWQS ¹	NYSDEC SW ²	Unit							
SVOCs (SW8270)										
1,4-Dioxane (P-Dioxane)	0.35	NSL	µg/L	NA	NA	NA	NA	< 0.032 U	< 0.032 U	NA
2-Methylnaphthalene	NSL	NSL	µg/L	NA	NA	NA	NA	NA	NA	< 0.66 U
Acenaphthene	20	20	µg/L	0.021 J	0.025 J	0.022 J	0.024 J	< 0.019 UJ	NA	< 0.52 U
Acenaphthylene	NSL	NSL	µg/L	< 0.015 U	< 0.015 U	0.016 J	0.016 J	< 0.015 UJ	NA	< 0.54 U
Anthracene	50	NSL	µg/L	< 0.025 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.012 UJ	NA	< 0.48 U
Benzo(A)Anthracene	0.002	NSL	µg/L	< 0.016 U	< 0.016 U	< 0.016 U	< 0.016 U	< 0.014 UJ	NA	< 0.45 U
Benzo(A)Pyrene	NSL	NSL	µg/L	< 0.022 U	< 0.022 U	< 0.022 U	< 0.022 U	< 0.014 UJ	NA	< 0.68 U
Benzo(B)Fluoranthene	0.002	NSL	µg/L	< 0.024 U	< 0.024 U	< 0.024 U	< 0.024 U	< 0.016 UJ	NA	< 0.53 U
Benzo(G,H,I)Perylene	NSL	NSL	µg/L	< 0.035 U	< 0.035 U	< 0.035 U	< 0.035 U	< 0.017 UJ	NA	< 0.66 UJ
Benzo(K)Fluoranthene	0.002	NSL	µg/L	< 0.028 U	< 0.028 U	< 0.028 U	< 0.028 U	< 0.012 UJ	NA	< 0.61 U
Chrysene	0.002	NSL	µg/L	< 0.030 U	< 0.030 U	< 0.030 U	< 0.030 U	< 0.013 UJ	NA	< 0.43 U
Dibenz(A,H)Anthracene	NSL	NSL	µg/L	< 0.020 U	< 0.020 U	< 0.020 U	< 0.020 U	< 0.018 UJ	NA	< 0.72 UJ
Fluoranthene	50	NSL	µg/L	< 0.039 U	< 0.039 U	< 0.039 U	< 0.039 U	< 0.013 UJ	NA	< 0.47 U
Fluorene	50	NSL	µg/L	< 0.012 U	< 0.012 U	0.016 J	0.017 J	< 0.016 UJ	NA	< 0.52 U
Indeno(1,2,3-C,D)Pyrene	0.002	NSL	µg/L	< 0.036 U	< 0.036 U	< 0.036 U	< 0.036 U	< 0.018 UJ	NA	< 0.76 UJ
Naphthalene	10	10	µg/L	< 0.12 U	< 0.12 U	0.23	0.25	< 0.026 UJ	NA	< 0.58 U
Phenanthrene	50	NSL	µg/L	< 0.022 U	< 0.022 U	0.11	0.095	< 0.015 UJ	NA	< 0.5 U
Pyrene	50	NSL	µg/L	< 0.031 U	< 0.031 U	< 0.031 U	< 0.031 U	< 0.014 UJ	NA	< 0.64 U

Notes:

(1) NYSDEC Class GA groundwater standards and guidance values (6 NYCRR Part 703.6 Ambient Water Quality Standards, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).

(2) NYSDEC Class A surface water standards and guidance values (6 NYCRR Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).

µg/L = Microgram(s) per liter

J = Concentration is estimated.

J+ = Concentration is estimated; biased high.

NA = Not analyzed

NSL = No screening level

NYSDEC = New York State Department of Conservation.

SVOCs = Semivolatile organic compounds.

U = Analyte not detected.

Concentrations exceeding the screening level are shaded.

Table 4. Summary of Surface Water COC Concentrations (May 2023 and Historical)				SW-401	SW-402	SW-402	SW-402	SW-402	SW-402	SW-403
Location ID				SW-401	SW-402	SW-402	SW-402	SW-402	SW-402	SW-403
Sample Name				516008-FD-SW	SW-402	SW-402	SW-402	SW-402	516008-SW-402	SW-403
Parent Sample ID				516008-SW-401						
Sample Date				5/31/2023	2/23/2021	6/8/2021	10/20/2021	7/28/2022	5/31/2023	2/23/2021
Analyte	NYSDEC AWQS ¹	NYSDEC SW ²	Unit							
SVOCs (SW8270)										
1,4-Dioxane (P-Dioxane)	0.35	NSL	µg/L	NA	NA	NA	NA	< 0.032 U	NA	NA
2-Methylnaphthalene	NSL	NSL	µg/L	< 0.66 U	NA	NA	NA	NA	< 0.66 U	NA
Acenaphthene	20	20	µg/L	< 0.53 U	< 0.014 U	< 0.014 U	0.024 J	< 0.021 UJ	< 0.52 U	0.024 J
Acenaphthylene	NSL	NSL	µg/L	< 0.55 U	< 0.015 U	< 0.015 U	< 0.015 U	< 0.017 UJ	< 0.54 U	< 0.015 U
Anthracene	50	NSL	µg/L	< 0.49 U	< 0.025 U	< 0.025 U	< 0.025 U	< 0.014 UJ	< 0.48 U	< 0.025 U
Benzo(A)Anthracene	0.002	NSL	µg/L	< 0.45 U	< 0.016 U	< 0.016 U	< 0.016 U	< 0.016 UJ	< 0.45 U	< 0.016 U
Benzo(A)Pyrene	NSL	NSL	µg/L	< 0.68 U	< 0.022 U	< 0.022 U	< 0.022 U	< 0.016 UJ	< 0.68 U	< 0.022 U
Benzo(B)Fluoranthene	0.002	NSL	µg/L	< 0.54 U	0.037 J	< 0.024 U	< 0.024 U	< 0.018 UJ	< 0.53 U	0.038 J
Benzo(G,H,I)Perylene	NSL	NSL	µg/L	< 0.67 UJ	0.043 J+	< 0.035 U	< 0.035 U	< 0.019 UJ	< 0.66 UJ	0.036 J+
Benzo(K)Fluoranthene	0.002	NSL	µg/L	< 0.62 U	< 0.028 U	< 0.028 U	< 0.028 U	< 0.013 UJ	< 0.61 U	< 0.028 U
Chrysene	0.002	NSL	µg/L	< 0.44 U	0.048 J	< 0.030 U	< 0.030 U	< 0.014 UJ	< 0.43 U	0.047 J
Dibenz(A,H)Anthracene	NSL	NSL	µg/L	< 0.73 UJ	< 0.020 U	< 0.020 U	< 0.020 U	< 0.02 UJ	< 0.72 UJ	< 0.020 U
Fluoranthene	50	NSL	µg/L	< 0.47 U	0.066	< 0.039 U	< 0.039 U	< 0.015 UJ	< 0.47 U	0.067
Fluorene	50	NSL	µg/L	< 0.53 U	< 0.012 U	< 0.012 U	0.016 J	< 0.018 UJ	< 0.52 U	0.012 J
Indeno(1,2,3-C,D)Pyrene	0.002	NSL	µg/L	< 0.77 UJ	0.042 J	< 0.036 U	< 0.036 U	< 0.02 UJ	< 0.76 UJ	< 0.036 U
Naphthalene	10	10	µg/L	< 0.59 U	< 0.12 U	< 0.12 U	0.14 J	< 0.029 UJ	< 0.58 U	< 0.12 U
Phenanthrene	50	NSL	µg/L	< 0.5 U	0.035 J	< 0.022 U	0.077	< 0.017 UJ	< 0.5 U	0.028 J
Pyrene	50	NSL	µg/L	< 0.64 U	0.071	< 0.031 U	< 0.031 U	< 0.016 UJ	< 0.64 U	0.068

Notes:

(1) NYSDEC Class GA groundwater standards and guidance values (6 NYCRR Part 703.6 Ambient Water Quality Standards, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).

(2) NYSDEC Class A surface water standards and guidance values (6 NYCRR Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).

µg/L = Microgram(s) per liter

J = Concentration is estimated.

J+ = Concentration is estimated; biased high.

NA = Not analyzed

NSL = No screening level

NYSDEC = New York State Department of Conservation.

SVOCs = Semivolatile organic compounds.

U = Analyte not detected.

Concentrations exceeding the screening level are shaded.

Table 4. Summary of Surface Water COC Concentrations (May 2023 and Historical)

Location ID Sample Name Parent Sample ID Sample Date				SW-403 SW-403 6/8/2021	SW-403 SW-403 10/20/2021	SW-403 SW-403 7/28/2022	SW-403 516008-SW-403 5/31/2023
Analyte	NYSDEC AWQS ¹	NYSDEC SW ²	Unit				
SVOCs (SW8270)							
1,4-Dioxane (P-Dioxane)	0.35	NSL	µg/L	NA	NA	< 0.032 U	NA
2-Methylnaphthalene	NSL	NSL	µg/L	NA	NA	NA	< 0.66 U
Acenaphthene	20	20	µg/L	< 0.014 U	< 0.014 U	< 0.019 UJ	< 0.52 U
Acenaphthylene	NSL	NSL	µg/L	< 0.015 U	< 0.015 U	< 0.015 UJ	< 0.54 U
Anthracene	50	NSL	µg/L	< 0.025 U	< 0.025 U	< 0.012 UJ	< 0.48 U
Benzo(A)Anthracene	0.002	NSL	µg/L	< 0.016 U	0.02 J	< 0.014 UJ	< 0.45 U
Benzo(A)Pyrene	NSL	NSL	µg/L	< 0.022 U	0.029 J	< 0.014 UJ	< 0.68 U
Benzo(B)Fluoranthene	0.002	NSL	µg/L	< 0.024 U	0.043 J	< 0.015 UJ	< 0.53 U
Benzo(G,H,I)Perylene	NSL	NSL	µg/L	< 0.035 U	< 0.035 U	< 0.017 UJ	< 0.66 UJ
Benzo(K)Fluoranthene	0.002	NSL	µg/L	< 0.028 U	< 0.028 U	< 0.012 UJ	< 0.61 U
Chrysene	0.002	NSL	µg/L	< 0.030 U	0.031 J	< 0.013 UJ	< 0.43 U
Dibenz(A,H)Anthracene	NSL	NSL	µg/L	< 0.020 U	< 0.020 U	< 0.018 UJ	< 0.72 UJ
Fluoranthene	50	NSL	µg/L	< 0.039 U	0.066	< 0.013 UJ	< 0.47 U
Fluorene	50	NSL	µg/L	< 0.012 U	< 0.012 U	< 0.016 UJ	< 0.52 U
Indeno(1,2,3-C,D)Pyrene	0.002	NSL	µg/L	< 0.036 U	< 0.036 U	< 0.017 UJ	< 0.76 UJ
Naphthalene	10	10	µg/L	< 0.12 U	< 0.12 U	< 0.026 UJ	< 0.58 U
Phenanthrene	50	NSL	µg/L	< 0.022 U	0.1	< 0.015 UJ	< 0.5 U
Pyrene	50	NSL	µg/L	< 0.031 U	0.059	< 0.014 UJ	< 0.64 U

Notes:

- (1) NYSDEC Class GA groundwater standards and guidance values (6 NYCRR Part 703.6 Ambient Water Quality Standards, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).
- (2) NYSDEC Class A surface water standards and guidance values (6 NYCRR Part 703.5 Water Quality Regulations, as presented in the Division of Water Technical and Operational Guidance Series 1.1.1, 1998, as amended).

µg/L = Microgram(s) per liter

J = Concentration is estimated.

J+ = Concentration is estimated; biased high.

NA = Not analyzed

NSL = No screening level

NYSDEC = New York State Department of Conservation.

SVOCs = Semivolatile organic compounds.

U = Analyte not detected.

Concentrations exceeding the screening level are shaded.

Table 5. Summary of Sediment COC Concentrations (May 2023 and Historical)

Location ID Sample Name Parent Sample ID Sample Date			SD-400 SD-400 10/20/2021	SD-400 SD-400 7/28/2022	SD-400 516008-SD-400 5/30/2023	SD-401 SD-401 6/8/2021	SD-401 SD-401D SD-401 6/8/2021	SD-401 SD-401 10/20/2021	SD-401 SD-401D SD-401 10/20/2021	SD-401 SD-401 7/28/2022
Analyte	NYSDEC Class A ¹	Unit								
SVOCs (SW8270)										
2-Methylnaphthalene	NSL	mg/kg	NA	NA	< 0.084 U	NA	NA	NA	NA	NA
Acenaphthene	NSL	mg/kg	< 0.017 U	< 0.093 U	< 0.082 U	< 0.011 U	< 0.011 U	< 0.01 U	< 0.011 U	< 0.076 U
Acenaphthylene	NSL	mg/kg	0.051 J	< 0.092 U	< 0.084 U	0.013 J	< 0.0039 U	0.01 J	0.0089 J	< 0.074 U
Anthracene	NSL	mg/kg	0.071 J	< 0.093 U	< 0.083 U	0.015 J	0.012 J	0.013 J	0.014 J	< 0.076 U
Benzo(A)Anthracene	NSL	mg/kg	0.087	< 0.082 U	< 0.078 U	0.07	0.052	< 0.013 U	< 0.014 U	< 0.066 U
Benzo(A)Pyrene	NSL	mg/kg	0.083 J	0.083 J	< 0.071 U	0.078 J	0.068 J	< 0.0098 U	< 0.01 U	< 0.064 U
Benzo(B)Fluoranthene	NSL	mg/kg	0.14 J	0.11 J	< 0.072 U	0.1	0.1	< 0.0095 U	< 0.01 U	< 0.066 U
Benzo(G,H,I)Perylene	NSL	mg/kg	0.17 J	< 0.099 U	< 0.09 U	0.061 J	0.043 J	< 0.011 U	< 0.011 U	< 0.08 U
Benzo(K)Fluoranthene	NSL	mg/kg	0.047 J	< 0.079 U	< 0.078 U	0.033 J	0.037 J	< 0.0072 U	< 0.0076 U	< 0.064 U
Chrysene	NSL	mg/kg	0.1 J	0.089 J	< 0.078 U	0.088 J	0.088 J	< 0.0062 U	< 0.0066 U	< 0.069 U
Dibenz(A,H)Anthracene	NSL	mg/kg	0.043 J	< 0.091 U	< 0.083 U	< 0.016 U	< 0.017 U	< 0.016 U	< 0.017 U	< 0.074 U
Fluoranthene	NSL	mg/kg	0.15 J	0.13 J	< 0.077 U	0.13 J	0.13 J	< 0.013 U	< 0.014 U	< 0.069 U
Fluorene	NSL	mg/kg	0.0088 J	< 0.093 U	< 0.084 U	< 0.0051 U	< 0.0053 U	< 0.0050 U	< 0.0053 U	< 0.076 U
Indeno(1,2,3-C,D)Pyrene	NSL	mg/kg	0.15	< 0.1 U	< 0.094 U	0.069	0.061	< 0.014 U	< 0.015 U	< 0.085 U
Naphthalene	NSL	mg/kg	< 0.01 U	< 0.091 U	< 0.086 U	< 0.0065 U	< 0.0067 U	< 0.0064 U	< 0.0067 U	< 0.074 U
Phenanthrene	NSL	mg/kg	0.064 J	< 0.093 U	< 0.084 U	0.07 J	0.047 J	< 0.0065 U	< 0.0069 U	< 0.076 U
Pyrene	NSL	mg/kg	0.16 J	0.14 J	< 0.086 U	0.13 J	0.11 J	< 0.0091 U	< 0.0097 U	< 0.073 U
Sum of PAHs	4	mg/kg	1.3248	0.552	ND	0.857	0.748	0.023	0.0229	ND

Notes:
(1) NYSDEC Class A Freshwater Sediment standards
(Screening and Assessment of Contaminated Sediment, June 24
COC = Contaminants of concern.
J = Concentration is estimated.
mg/kg = Milligram(s) per kilogram.
NA = Not analyzed.
NSL = No screening level available.
PAH = Polycyclic aromatic hydrocarbon
SVOC = Semivolatile organic compound
U = Analyte not detected.

Table 5. Summary of Sediment COC Concentrations (May 2023 and Historical)

Location ID Sample Name Parent Sample ID Sample Date			SD-401 SD-401D SD-401 7/28/2022	SD-401 516008-SD-401 5/31/2023	SD-401 516008-FD-SD 516008-SD-401 5/31/2023	SD-402 SD-402 6/8/2021	SD-402 SD-402 10/20/2021	SD-402 SD-402 7/28/2022	SD-402 516008-SD-402 5/31/2023
Analyte	NYSDEC Class A ¹	Unit							
SVOCs (SW8270)									
2-Methylnaphthalene	NSL	mg/kg	NA	< 0.081 U	< 0.078 U	NA	NA	NA	< 0.08 U
Acenaphthene	NSL	mg/kg	< 0.078 U	< 0.079 U	< 0.076 U	< 0.011 U	< 0.011 U	< 0.079 U	< 0.078 U
Acenaphthylene	NSL	mg/kg	< 0.076 U	< 0.081 U	< 0.078 U	< 0.0039 U	0.0088 J	< 0.077 U	< 0.08 U
Anthracene	NSL	mg/kg	< 0.077 U	< 0.08 U	< 0.077 U	< 0.012 U	0.013 J	< 0.079 U	< 0.079 U
Benzo(A)Anthracene	NSL	mg/kg	< 0.068 U	< 0.074 U	< 0.072 U	< 0.014 U	< 0.014 U	< 0.069 U	< 0.073 U
Benzo(A)Pyrene	NSL	mg/kg	< 0.066 U	< 0.068 U	< 0.066 U	< 0.01 U	< 0.01 U	< 0.067 U	< 0.067 U
Benzo(B)Fluoranthene	NSL	mg/kg	< 0.067 U	< 0.069 U	< 0.067 U	< 0.01 U	< 0.01 U	< 0.068 U	< 0.069 U
Benzo(G,H,I)Perylene	NSL	mg/kg	< 0.082 U	< 0.086 U	< 0.083 U	< 0.011 U	< 0.012 U	< 0.084 U	< 0.085 U
Benzo(K)Fluoranthene	NSL	mg/kg	< 0.065 U	< 0.074 U	< 0.072 U	< 0.0076 U	< 0.0077 U	< 0.067 U	< 0.073 U
Chrysene	NSL	mg/kg	< 0.07 U	< 0.074 U	< 0.072 U	< 0.0066 U	< 0.0066 U	< 0.071 U	< 0.074 U
Dibenz(A,H)Anthracene	NSL	mg/kg	< 0.076 U	< 0.08 U	< 0.077 U	< 0.017 U	< 0.017 U	< 0.077 U	< 0.079 U
Fluoranthene	NSL	mg/kg	< 0.071 U	< 0.074 U	< 0.071 U	< 0.014 U	< 0.014 U	< 0.072 U	< 0.073 U
Fluorene	NSL	mg/kg	< 0.077 U	< 0.08 U	< 0.077 U	< 0.0053 U	< 0.0053 U	< 0.079 U	< 0.079 U
Indeno(1,2,3-C,D)Pyrene	NSL	mg/kg	< 0.087 U	< 0.09 U	< 0.087 U	< 0.015 U	< 0.015 U	< 0.088 U	< 0.089 U
Naphthalene	NSL	mg/kg	< 0.076 U	< 0.083 U	< 0.079 U	< 0.0067 U	< 0.0068 U	< 0.077 U	< 0.081 U
Phenanthrene	NSL	mg/kg	< 0.077 U	< 0.081 U	< 0.078 U	< 0.0068 U	< 0.0069 U	< 0.079 U	< 0.08 U
Pyrene	NSL	mg/kg	< 0.075 U	< 0.082 U	< 0.079 U	< 0.0097 U	< 0.0098 U	< 0.076 U	0.084 J
Sum of PAHs	4	mg/kg	ND	ND	ND	ND	0.0218	ND	0.084

Notes:
(1) NYSDEC Class A Freshwater Sediment standards
(Screening and Assessment of Contaminated Sediment, June 24
COC = Contaminants of concern.
J = Concentration is estimated.
mg/kg = Milligram(s) per kilogram.
NA = Not analyzed.
NSL = No screening level available.
PAH = Polycyclic aromatic hydrocarbon
SVOC = Semivolatile organic compound
U = Analyte not detected.

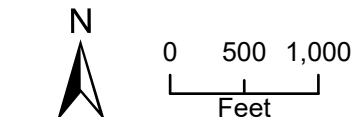
Figures

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Legend

- ★ Site Location
- Operable Units (OUs)



Map Date: 10/5/2023
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI



Figure 1
Site Vicinity Map
Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York

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Legend

- Saranac Lake Gas Co. Parcel (OU01)
- Site Location
- Groundwater Sampling Location
- Gauged Only

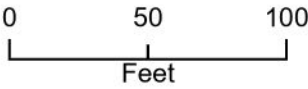


Figure 2a
OU01 Long-Term Monitoring
Sampling Locations
Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York



Map Date: 6/10/2024
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI

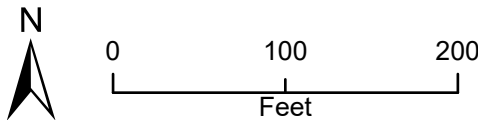
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Legend

- Saranac Lake Gas Co. Parcel (OU01)
- Brandy Brook (OU02)
- Lake Flower (OU03)
- Groundwater Sampling Location
- Surface Water Sampling Location
- Surface Water and Sediment Sampling Location
- Not Sampled
- Site Location

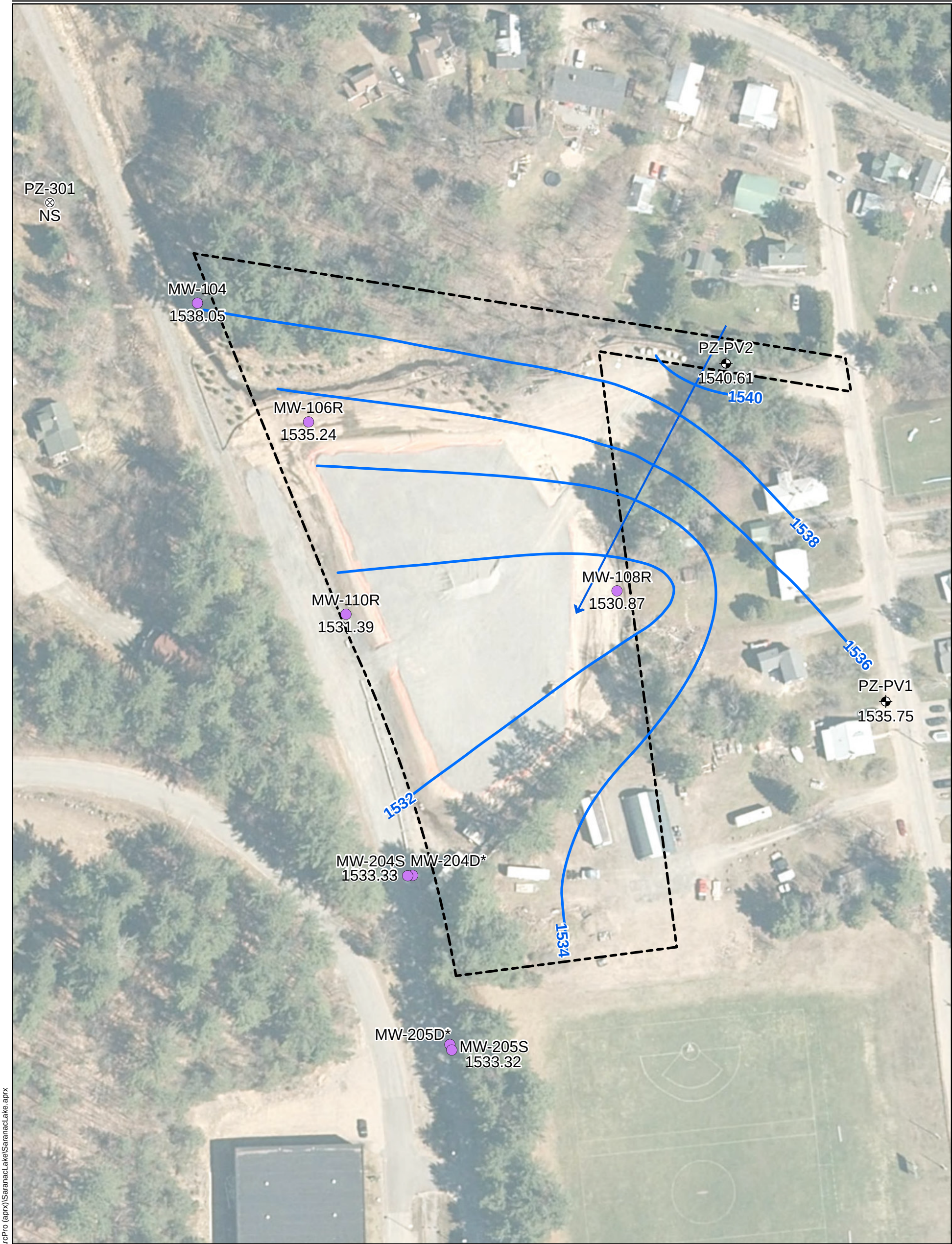


Map Date: 10/4/2023
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI



Figure 2b
OU02 and OU03 Long-Term
Monitoring Sampling Locations
Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York

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Legend

- | | | | |
|--|------------------------------------|--|-------------------------------|
| | Groundwater Elevation Contours | | Groundwater Sampling Location |
| | Groundwater Flow Direction | | Gauged Only |
| | Saranac Lake Gas Co. Parcel (OU01) | | Not Sampled |
| | | | Site Location |

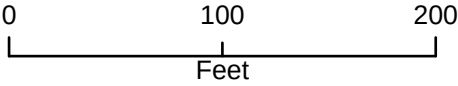


Figure 3
Groundwater Elevation Contours
May 2023
Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York



Department of
Environmental
Conservation



Map Date: 7/12/2024
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI

Notes:
Groundwater elevations presented in feet.
*Groundwater elevations omitted for
MW-204D and MW-205D.

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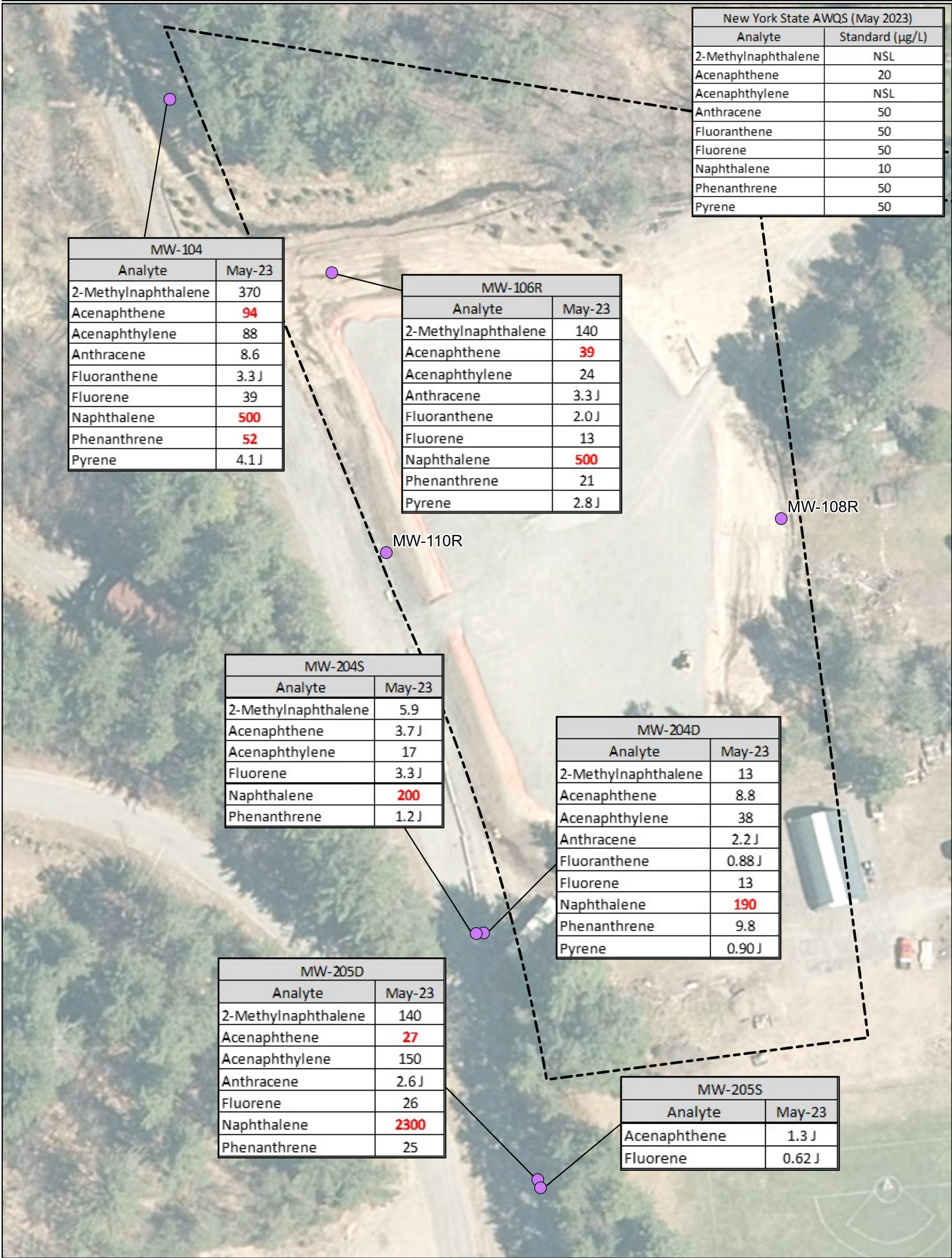


Figure 4
Groundwater Analytical Results
PAH Detections
Saranac Lake Gas Co., Inc.
(NYSDEC Site No. 516008)
Saranac Lake, New York



Department of
Environmental
Conservation



Map Date: 7/18/2024
Projection: NAD 1983 State Plane New York East
Source: WSP; ESRI

Note:
Values in red indicate exceedances of AWQS Standards.

Appendix A

Daily Field Reports

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DAILY INSPECTION REPORT
(Saranac Lake), Site No. 516008

Page 1 of 6
Date: 05/30/2023

NYSDEC Division of Environmental Remediation		 NEW YORK STATE		Department of Environmental Conservation		Contract No. D009806 DEC PM – J. Stefansky Engineer PM – J. Oliver Engineer Insp. – K. Cassidy	
Site Location: Payeville Lane, Saranac Lake, New York 12983							
Weather Conditions							
General Description	Sunny	AM	Sunny	PM			
Temperature	70 F	AM	83 F	PM			
Wind	SW 6 MPH	AM	SW 6 MPH	PM			
Health & Safety If any box below is checked “Yes”, provide explanation under “Health & Safety Comments”.							
Were there any changes to the Health & Safety Plan?					*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?					*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?					*Yes	No X	NA
Health & Safety Comments Use caution in wooded areas; slips, trips, and falls; ticks.							
Summary of Work Performed		Arrived at site:	0915	Departed Site:	1715		
EA (K. Cassidy, M. Gilkey, and P. Coles-Carruthers) arrive onsite (0915). EA begins calibrating PID, and K. Cassidy provide safety briefing (0930). EA begins gauging wells (0945). EA collected sample at MW-204S (1306). EA collected sample at MW-106R (1327). EA collected samples at MW-204D (parent, MS, & MSD) (1411). EA collected sample at MW-205S (1535). EA collected sample at MW-104 (1616). EA collected sample at MW-205D (1635). EA gauged PVC stickup in creek in front of residences in OU2 (0.1 ppm) (1700). EA offsite (1715).							
Equipment/Material Tracking If any box below is checked “Yes”, provide explanation under “Material Tracking Comments”.							
Were there any vehicles which did not display proper D.O.T numbers and placards?					*Yes	No X	NA
Were there any vehicles which were not tarped?					* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?					* Yes	No	NA X
Personnel and Equipment							
Individual		Company		Trade		Total Hours	
Katie Cassidy		EA		Scientist		8	
Moriah Gilkey		EA		Scientist		8	
Philomena Coles-Carruthers		EA		Scientist		8	
Equipment Description		Contractor/Vendor			Quantity	Used	
PID		Pine Environmental			1	1	
Peristatic Pump		Pine Environmental			2	2	
Horiba U-52		Pine Environmental			2	2	
Water Level Meter		Pine Environmental			2	2	
Material Description		Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)		Daily Loads
							Daily Weight (tons)*
Equipment/Material Tracking Comments:							
Visitors to Site							
Name		Representing			Entered Exclusion/CRZ Zone		
					Yes	No	
					Yes	No	
Site Representatives							

DAILY INSPECTION REPORT
(Saranac Lake), Site No. 516008

Page 2 of 6
Date: 05/30/2023

Name	Representing
None	
Project Schedule Comments	
None.	
Issues Pending	
• None	
Interaction with Public, Property Owners, Media, etc.	
None	



DAILY INSPECTION REPORT

(Saranac Lake), Site No. 516008

Page 3 of 6

Date: 05/30/2023

Include (insert) figures with markups showing location of work and job progress

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DAILY INSPECTION REPORT
(Saranac Lake), Site No. 516008

Page 4 of 6
Date: 05/30/2023

WELL MONITORING TABLE:

Well ID	DTW	DTB	Notes
516008-MW-204S	12.96	28.20	
516008-MW-204D	13.36	31.50	MS/MSD
516008-MW-205S	11.92	19.60	
516008-MW-205D	11.93	33.25	
516008-MW-104	6.80	18.80	
516008-MW-106R	6.15	17.03	

Site Inspector(s): Katie Cassidy

Date: 5/30/23

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work?
Yes ☐ No ☐ N/A ☒



Department of
Environmental
Conservation

REMEDIAL ACTIVITIES AT PROPERTIES

1. Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes ☐	No ☒
2. Have anyone at this location been tested and confirmed to have COVID-19?	Yes ☐	No ☒
3. Were personal protective gloves, masks, and eye protection being used?	Yes ☐	No ☒
4. Does the Department and its contractors have your permission to enter the property at this time?	Yes ☐	No ☐
5. If Yes to 1 or 2, follow the latest NYSDOH COVID-19 guidance: https://coronavirus.health.ny.gov/home	Yes ☐	No ☐
Comments: N/A		

ON-SITE WASTE STORAGE

Drums, roll offs and piles are staged in secure areas?	Yes ☐	No ☐	N/A ☒
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A ☒
Containers are in good condition or properly overpacked?	Yes ☐	No ☐	N/A ☒
Waste materials are scheduled to be properly characterized and disposed of prior to demobilization?	Yes ☐	No ☐	N/A ☒
Complying with RCRA 90 day storage limitation for hazardous waste?	Yes ☐	No ☐	N/A ☒
Piles are securely covered when not in use?	Yes ☐	No ☐	N/A ☒
Containers are closed when not in use?	Yes ☐	No ☐	N/A ☒
Staging areas should be inspected periodically and any issues addressed immediately?	Yes ☐	No ☐	N/A ☒
Signage and labeling comply with RCRA requirements for all staging areas and containers?	Yes ☐	No ☐	N/A ☒
If any issues noted, has Contractor been notified?	Yes ☐	No ☐	N/A ☒
Comments:			

NUISANCE CHECKLIST

Were there any community complaints related to work on this date?	Yes ☐	No ☒	N/A ☐
Were there any odors detected on this date?	Yes ☐	No ☒	N/A ☐
Was noise outside specification and/or above background on this date?	Yes ☐	No ☒	N/A ☐
Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☐	N/A ☒
Any visible dust observed beyond the work perimeter on this date?	Yes ☐	No ☐	N/A ☒
Any visible contrast (turbidity) beyond engineering controls observed on this date?	Yes ☐	No ☐	N/A ☒
Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A ☒
Were any property owners NOT provided advance notice for work performed on this property on this date?	Yes ☐	No ☐	N/A ☒



DAILY INSPECTION REPORT
(Saranac Lake), Site No. 516008

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Date: 05/30/2023

Was the temporary fabric structure closed at the end of the day?	Yes ☐	No ☐	N/A ☒
Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A ☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A ☒
<u>Comments:</u> N/A			

RESILIENCE/GREEN REMEDIATION CHECKLIST

Is site power procured from renewable energy sources (e.g., solar, wind, geothermal, biomass and biogas)?	Yes ☐	No ☐	N/A ☒
Is the Contractor employing 2007 or newer or retrofitted (BART*) diesel on-road trucks and non-road equipment?	Yes ☐	No ☐	N/A ☒
Is vehicle idling adequately reduced per 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A ☒
Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A ☒
Is BART-equipped equipment properly maintained and working?	Yes ☐	No ☐	N/A ☒
Is work being sequenced to avoid double handling?	Yes ☐	No ☐	N/A ☒
Is there an onsite recycling program for CONTRACTOR-generated wastes and is it complied with?	Yes ☐	No ☐	N/A ☒
Are office trailer heating and cooling systems maintained at efficient set points, have programable thermostats been installed?	Yes ☐	No ☐	N/A ☒
Are products and materials used in performance of the work appropriately certified (e.g., LEED, Energy Star, Sustainable Forestry Initiative®, etc.)?	Yes ☐	No ☐	N/A ☒
Are resiliency features included in the design, or completed remedy properly installed and/or maintained (flood control, storm water controls, erosion measures, etc.)?	Yes ☐	No ☐	N/A ☒
Are green remediation elements included in the design, or completed remedy properly installed and/or maintained (e.g., porous pavement, geothermal, variable speed drives, native plantings, natural stream bank restoration, etc.)?	Yes ☐	No ☐	N/A ☒
Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A ☒
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☐	No ☐	N/A ☒
<u>Comments:</u> N/A			

* BART – Best Available Retrofit Technology



DAILY INSPECTION REPORT
(Saranac Lake), Site No. 516008

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Date: 05/31/2023

NYSDEC Division of Environmental Remediation				Department of Environmental Conservation		Contract No. D009806 DEC PM – J. Stefansky Engineer PM – J. Oliver Engineer Insp. – K. Cassidy	
Site Location: Payeville Lane, Saranac Lake, New York 12983							
Weather Conditions							
General Description	Sunny	AM	Sunny	PM			
Temperature	70 F	AM	85 F	PM			
Wind	SW 6 MPH	AM	SW 6 MPH	PM			
Health & Safety If any box below is checked "Yes", provide explanation under "Health & Safety Comments".							
Were there any changes to the Health & Safety Plan?					*Yes	No X	NA
Were there any exceedances of the perimeter air monitoring reported on this date?					*Yes	No	NA X
Were there any nuisance issues reported/observed on this date?					*Yes	No X	NA
Health & Safety Comments Heat; biting insects							
Summary of Work Performed		Arrived at site:		0730	Departed Site:		1330
EA (K. Cassidy, M. Gilkey, and P. Coles-Carruthers) arrive onsite (0730). Begin purging two final groundwater wells for sampling (0755, 0758). EA collected samples MW-108R + field duplicate (0830). M. Gilkey offsite to purchase chain to allow perimeter fence lock to fit better (0900). EA collected sample MW-110R (1001). EA collected sample EA prep surface water and sediment sampling equipment and bottleware; mobilize to OU2 to begin SW/SD sampling (1045). EA collected sample SW-400 (1105). EA collected samples SD-400 + MS/MSD (1110). EA collected samples SW-401 + field duplicate (1138). EA collected sample SD-401 + field duplicate (1148). EA collected samples SW-402 + MS/MSD (1241). EA collected sample SD-402 (1251). EA collected sample SW-403 (1320). EA offsite (1330).							
Equipment/Material Tracking If any box below is checked "Yes", provide explanation under "Material Tracking Comments".							
Were there any vehicles which did not display proper D.O.T numbers and placards?					*Yes	No X	NA
Were there any vehicles which were not tarped?					* Yes	No	NA X
Were there any vehicles which were not decontaminated prior to exiting the work site?					* Yes	No	NA X
Personnel and Equipment							
Individual		Company		Trade		Total Hours	
Katie Cassidy		EA		Scientist		6	
Moriah Gilkey		EA		Engineer		6	
Philomena Coles-Carruthers		EA		Scientist/Intern		6	
Equipment Description		Contractor/Vendor			Quantity	Used	
Peristatic Pump		Pine Environmental			2	2	
Horiba U-52		Pine Environmental			2	2	
Water Level Meter		Pine Environmental			2	2	
Carbon filtration bucket		Pine Environmental			2	2	
Material Description	Imported/ Delivered to Site	Exported off Site	Waste Profile (If Applicable)	Source or Disposal Facility (If Applicable)		Daily Loads	Daily Weight (tons)*
Equipment/Material Tracking Comments:							
Visitors to Site							
Name		Representing			Entered Exclusion/CRZ Zone		
					Yes		No
					Yes		No
Site Representatives							
Name				Representing			



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DAILY INSPECTION REPORT
(Saranac Lake), Site No. 516008

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None	
Project Schedule Comments	
None.	
Issues Pending	
EA took note of a downed tree that caused damage to perimeter fence. PM Josh Oliver notified that fence repair and tree removal crew will need to fix the issue. Photos will be included in photo log.	
Interaction with Public, Property Owners, Media, etc.	
None	



DAILY INSPECTION REPORT

(Saranac Lake), Site No. 516008

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Date: 05/31/2023

Include (insert) figures with markups showing location of work and job progress

[illegible]

DAILY INSPECTION REPORT
(Saranac Lake), Site No. 516008

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Date: 05/31/2023

WELL MONITORING TABLE:

Well ID	DTW	DTB	Notes
516008-MW-204S	12.96	28.20	
516008-MW-204D	13.36	31.50	MS/MSD
516008-MW-205S	11.92	19.60	
516008-MW-205D	11.93	33.25	
516008-MW-104	6.80	18.80	
516008-MW-106R	6.15	17.03	
516008-MW-108R	13.65	21.89	Field duplicate
516008-MW-110R	12.34	20.95	

Site Inspector(s): Katie Cassidy

Date: 5/31/23

Videos of discreet operations have been provided to the DEC Project Manager to facilitate understanding of the ongoing work?
Yes ☐ No ☐ N/A ☒



Department of
Environmental
Conservation

REMEDIAL ACTIVITIES AT PROPERTIES

1. Does anyone at this location have any symptoms of a respiratory infection (e.g., cough, sore throat, fever, or shortness of breath)?	Yes ☐	No ☒
2. Have anyone at this location been tested and confirmed to have COVID-19?	Yes ☐	No ☒
3. Were personal protective gloves, masks, and eye protection being used?	Yes ☐	No ☒
4. Does the Department and its contractors have your permission to enter the property at this time?	Yes ☐	No ☐
5. If Yes to 1 or 2, follow the latest NYSDOH COVID-19 guidance: https://coronavirus.health.ny.gov/home	Yes ☐	No ☐
Comments: N/A		

ON-SITE WASTE STORAGE

Drums, roll offs and piles are staged in secure areas?	Yes ☐	No ☐	N/A ☒
Liners and berms have been installed if necessary to prevent cross contamination of clean areas?	Yes ☐	No ☐	N/A ☒
Containers are in good condition or properly overpacked?	Yes ☐	No ☐	N/A ☒
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Comments:			

NUISANCE CHECKLIST

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Were vibration readings outside specification and/or above background on this date?	Yes ☐	No ☐	N/A ☒
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Was turbidity checked at the outfall(s)?	AM ☐	PM ☐	N/A ☒
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DAILY INSPECTION REPORT
(Saranac Lake), Site No. 516008

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Date: 05/31/2023

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Has Contractor failed to protect all foundations and structures adjacent to and adjoining the site which are affected by the excavations or other operations connected with performance of the Work?	Yes ☐	No ☐	N/A ☒
If yes, has Contractor been notified?	Yes ☐	No ☐	N/A ☒
<u>Comments:</u> N/A			

RESILIENCE/GREEN REMEDIATION CHECKLIST

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Have equipment operators been trained in the idling requirements of 6NYCRR Part 217-3?	Yes ☐	No ☐	N/A ☒
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Has Contractor been notified of any deficiencies?	Yes ☐	No ☐	N/A ☒
Are remote/call in job meetings being held in lieu of meeting in person where possible?	Yes ☐	No ☐	N/A ☒
<u>Comments:</u> N/A			

* BART – Best Available Retrofit Technology

Appendix B

Field Forms

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FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION	
DATE:	05/30/23
TIME:	1106
METER ID:	18804

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.11	3.96

CONDUCTIVITY CALIBRATION

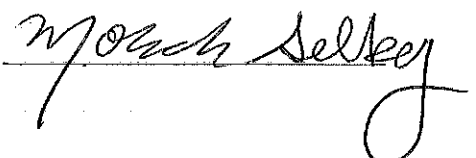
CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.52	4.42

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	2.9	0.1

COMMENTS

SIGNATURE



FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION	
DATE:	05/30/23
TIME:	1100
METER ID:	22290 (MCD) 14259

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	7.20	3.99

CONDUCTIVITY CALIBRATION

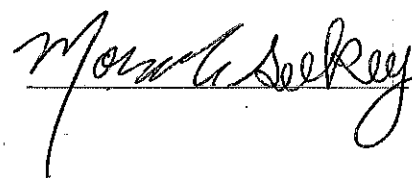
CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	2.72	5.13

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	5.7	0.3

COMMENTS

SIGNATURE



FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION	
DATE:	5/31/23
TIME:	0730 @
METER ID:	18804

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	3.95	3.97

CONDUCTIVITY CALIBRATION

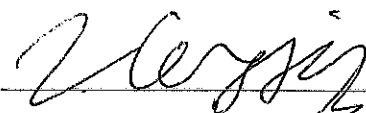
CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	4.94	4.45

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	0.0	0.0

COMMENTS

SIGNATURE



FIELD CALIBRATION FORM
Horiba U-52
pH, CONDUCTIVITY, AND TURBIDITY

CALIBRATION	
DATE:	5/31/23
TIME:	0732
METER ID:	18804 14259

pH CALIBRATION

pH STANDARD	INITIAL READING	FINAL READING
4.0	4.12	4.12

CONDUCTIVITY CALIBRATION

CONDUCTIVITY STANDARD	STANDARD READING	FINAL READING
4.49	5.09	4.49

TURBIDITY CALIBRATION

STANDARD	INITIAL READING	FINAL READING
0 NTU	1.4	1.3

COMMENTS

SIGNATURE



FIELD CALIBRATION FORM

Site Name: Saranac Lake Gas Co.

INSTRUMENT: Honeywell miniRAE 3000 ⁺		INSTRUMENT ID No: 22290	
OPERATOR: M. Gilkey		WEATHER: 67°F ; Sun ; 6mph SW	
SPAN GAS TYPE: 1 isobutylene		DATE: 05/30/23	
CALIBRATION NOTES:			
Zero Cal : 0.0 ppm			
Span Cal: 100.0 ppm			
COMMENTS:			
SIGNATURE: <i>M. Gilkey</i>		DATE: 05/30/23	

Site Entry and Exit Log

[illegible]

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-104	EA Personnel: K. Cassidy	Client: 516008 Saranac Lake Gas Co.
Location: Saranac Lake Gas Company, Inc. (516008)	Well Condition: good	Weather: 80°F sunny
Sounding Method: Heron WLM	Gauge Date: 5/30/23	Measurement Ref: TOL
Stick Up/Down (ft): Stick-up	Gauge Time: 0935	Well Diameter (in): 1

Purge Date: 5/30/23	Purge Time: 1549
Purge Method: Low-flow pen pump	Field Technician: K. Cassidy

Well Volume

A. Well Depth (ft): 18.80	D. Well Volume (ft): 0.041	Depth/Height of <u>Top</u> of PVC:
B. Depth to Water (ft): 6.80	E. Well Volume (gal) C*D): 0.492	Pump Type: peristaltic pump
C. Liquid Depth (ft) (A-B): 12.00	F. Three Well Volumes (gal) (E*3): 1.476	Pump Intake Depth: mid-screen

Water Quality Parameters

[illegible]

Total Quantity of Water Removed (gal):	<u>6.75 L</u>	Sampling Time:	<u>1616</u>
Samplers:		Split Sample With:	<u>-</u>
Sampling Date:	<u>5/30/23</u>	Sample Type:	<u>arab</u>

COMMENTS AND OBSERVATIONS:



EA Engineering, P.C.
EA Science and Technology

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Department of
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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: <u>MW-106R</u>	EA Personnel: <u>M. Gilkey, K. Cassidy, M.</u>	Client: <u>(516008)</u>
Location: <u>Saranac Lake, NY</u>	Well Condition: <u>Good/heavy sediment</u>	Weather: <u>73°F; Sunny</u>
Sounding Method: <u>Heron WLM</u>	Gauge Date: <u>05/30/23</u>	Measurement Ref: <u>TOC (PVC)</u>
Stick Up/Down (ft): <u>u 3 ft</u>	Gauge Time: <u>0935</u>	Well Diameter (in): <u>1" PVC</u>

Purge Date: <u>05/30/23</u>	Purge Time: <u>1135</u>
Purge Method: <u>low flow - perri</u>	Field Technician: <u>M. Gilkey / K. Cassidy</u>

Well Volume

A. Well Depth (ft): <u>17.03</u>	D. Well Volume (ft): <u>0.041</u>	Depth/Height of Top of PVC:
B. Depth to Water (ft): <u>6.15</u>	E. Well Volume (gal) C*D): <u>0.446</u>	Pump Type: <u>Perristaltic Pump</u>
C. Liquid Depth (ft) (A-B): <u>10.88</u>	F. Three Well Volumes (gal) (E3): <u>1.338</u>	Pump Intake Depth: <u>Mid-Screen</u>

Water Quality Parameters

Time (hrs)	Temperature (°C)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft bloc)	Rate (Lpm)	Volume (liters)
1139	22.60	9.99	-141	0.653	*	0.36	6.72	0.25	0
1142	21.50	9.06	-176	0.605	650	0.00	6.69		1.25
1145	18.04	9.18	-203	0.715	623	0.00	6.64		2.50
1148	16.55	9.29	-219	0.748	693	0.00	6.60		3.75
1151	16.95	9.42	-232	0.739	734	0.00	6.59		5.00
1154	17.36	9.44	-235	0.735	733	0.00	6.57		6.25
1157	17.70	9.62	-237	0.714	675	0.00	6.57		7.50
1200	16.82	9.59	-237	0.714	616	0.00	6.56		8.75
1203	16.55	9.48	-236	0.650	539	0.00			10.00
1206	16.76	9.50	-236	0.596	532	0.00			11.25
1209	16.19	9.55	-236	0.570	466	0.00			12.50
1212	16.68	9.52	-235	0.560	381	0.00			13.75
1215	17.00	9.30	-240	0.523	291	0.00			15.00
1218	17.17	9.28	-251	0.496	257	0.00			16.25
1221	17.33	9.44	-250	0.480	232	0.00			17.50
1224	17.57	9.45	-250	0.473	154	0.00			18.75
1227	17.83	9.44	-253	0.479	141	0.00	6.56		20.00

Total Quantity of Water Removed (gal):	Sampling Time:
Samplers: <u>mg/kc</u>	Split Sample With: <u>X</u>
Sampling Date: <u>05/30/23</u>	Sample Type: <u>GRAB</u>

COMMENTS AND OBSERVATIONS:

Purged into cup for first few minutes due to heavy sediment/precipitate

* horizon could read turbidity due to levels over 1000 NTU



EA Engineering, P.C.
EA Science and Technology

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Department of
Environmental
Conservation

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: <u>FO MW-106R</u>	EA Personnel:	Client:
Location: <u>See page 1</u>	Well Condition:	Weather:
Sounding Method:	Gauge Date:	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):

Purge Date:	Purge Time:
Purge Method:	Field Technician:

Well Volume

A. Well Depth (ft):	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Pump Intake Depth:

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1230	16.47	9.24	-271	0.467	99.4	0.00		0.25	21.25
1233	17.10	9.20	-288	0.452	108	0.00			22.50
1236	17.54	9.13	-300	0.448	109	0.00	6.56		23.75
1239	17.90	9.28	-300	0.440	100	0.00	6.56		25.00
1242	17.90	9.25	-304	0.447	86.4	0.00	6.56		26.25
1245	18.02	9.20	-310	0.447	82.2	0.00	6.57		27.50
1248	18.04	9.19	-322	0.447	72.7	0.00	6.57		28.75
1251	18.44	9.17	-335	0.438	62.2	0.00	6.57		30.00
1254	18.13	9.18	-349	0.443	65.9	0.00	6.58		31.25
1257	17.79	9.12	-363	0.443	71.7	0.00	6.59		32.50
1300	17.77	9.07	-391	0.433	67.9	0.00	6.59		33.75
1303	17.65	9.02	-404	0.432	64.9	0.0	6.59		35.00
1306	17.69	9.02	-414	0.429	73.4	0.0	6.60		36.25
1309	17.80	9.01	-423	0.427	61.4	0.0	6.60		37.5
1312	17.90	9.04	-433	0.427	64.1	0.0	6.60		38.75
1315	17.96	8.99	-443	0.427	62.0	0.0	6.60		40.0
1318	17.90	8.97	-446	0.427	61.1	0.0	6.61		41.25

Total Quantity of Water Removed (gal):	Sampling Time:
Samplers: <u>M. Gullkey / K. Cassidy</u>	Split Sample With: <u>Y</u>
Sampling Date: <u>5/30/23</u>	Sample Type: <u>URAB</u>

COMMENTS AND OBSERVATIONS:

See page 1

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-106R	EA Personnel:	Client: NYSDEC
Location: Saranac Lake Gas Company, Inc. (516008)	Well Condition:	Weather:
Sounding Method:	Gauge Date: See page 1	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):

Purge Date:	Purge Time:
Purge Method:	Field Technician:
See page 1	

Well Volume

A. Well Depth (ft):	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft):	E. Well Volume (gal) C*D): <i>See page 1</i>	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Pump Intake Depth:

Water Quality Parameters

[illegible]

Total Quantity of Water Removed (gal):	<u>2450(L)</u>	Sampling Time:	<u>1327</u>
Samplers:	<u>M. Gilkey / K. Cassidy</u>	Split Sample With:	<u>P</u>
Sampling Date:	<u>09/30/23</u>	Sample Type:	<u>GRAB</u>

COMMENTS AND OBSERVATIONS:

See page 1

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-108R	EA Personnel: M. Milvey / K. Cassidy	Client: NYSDEC (Saratoga Lake Gas Co.)
Location: Saratoga Lake, NY	Well Condition: Good / +	Weather: 65°F sunny
Sounding Method: Heron WLM	Gauge Date: 08/30/23	Measurement Ref: TOC of PIC
Stick Up/Down (ft): +3.4	Gauge Time: 0935	Well Diameter (in): 1" PVC

Purge Date: 05/31/23	Purge Time: 0755
Purge Method: Low-flow-perri pump	Field Technician: M. Gilkey / K. Cassidy

Well Volume

A. Well Depth (ft): 21.89	D. Well Volume (ft): 0.041	Depth/Height of <u>Top of PVC</u> :
B. Depth to Water (ft): 13.65	E. Well Volume (gal) C*D): 0.338	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 8.24	F. Three Well Volumes (gal) (E3): 1.013	Pump Intake Depth: Mid-Screen

Water Quality Parameters

[illegible]

Total Quantity of Water Removed (gal):	Sampling Time:
Samplers: <u>m. Gulkari / k. Mossley</u>	Split Sample With: <u>FD</u>
Sampling Date: <u>05/31/23</u>	Sample Type: <u>GRAB</u>

COMMENTS AND OBSERVATIONS:

* One of the PVC joints is out of line so the wlm & tubing can't fit down @ the same time
field dup taken here

lot?

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GROUNDWATER SAMPLING PURGE FORM									
Well ID: <u>MW-110R</u>		EA Personnel: <u>K. Cassidy</u>		Client: <u>516008</u> <u>Saranac Lake Gas Co</u>					
Location: <u>Saranac Lake Gas Company, Inc. (516008)</u>		Well Condition: <u>Good</u>		Weather: <u>70°F SUMM</u>					
Sounding Method: <u>Heron WLM</u>		Gauge Date: <u>5/30/23</u>		Measurement Ref: <u>TOL</u>					
Stick Up/Down (ft): <u>Stick up</u>		Gauge Time: <u>0935</u>		Well Diameter (in): <u>1</u>					
Purge Date: <u>5/31/23</u>				Purge Time: <u>0758</u>					
Purge Method: <u>low-flow per pump</u>				Field Technician: <u>K. Cassidy</u>					
Well Volume									
A. Well Depth (ft): <u>20.95</u>		D. Well Volume (ft): <u>0.041</u>		Depth/Height of Top of PVC: <u>—</u>					
B. Depth to Water (ft): <u>12.34</u>		E. Well Volume (gal) C*D): <u>0.353</u>		Pump Type: <u>peristaltic pump</u>					
C. Liquid Depth (ft) (A-B): <u>8.61</u>		F. Three Well Volumes (gal) (E3): <u>1.059</u>		Pump Intake Depth: <u>mid-screen</u>					
Water Quality Parameters									
Time (hrs)	Temperature (°C)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0758	15.93	6.50	-94	0.887	484	0.78		0.25	—
0801	14.67	6.86	-125	0.947	243	0.60		0.25	0.75
0804	14.35	6.94	-136	0.959	220	0.56		0.25	1.50
0807	14.20	6.95	-147	0.959	252	0.54		0.25	2.25
0810	14.22	6.95	-151	0.959	432	0.53		0.25	3.00
0813	14.01	6.98	-156	0.962	860	0.52		0.25	3.75
0816	14.37	6.94	-161	0.935	1000*	0.51		0.25	4.50
0819	14.11	6.90	-166	0.859	785	0.51		0.25	5.25
0822	14.54	6.84	-148	0.959	94.0	0.49		0.25	6.00
0825	14.75	6.93	-163	0.941	887	0.49		0.25	6.75
0828	14.62	6.91	-169	0.939	259	0.48		0.25	7.50
0831	15.19	6.89	-170	0.937	345	0.48		0.25	8.25
0834	15.66	6.91	-178	0.938	915	0.47		0.25	9.00
0837	15.73	6.93	-183	0.931	1663	0.47		0.25	9.75
0840	15.86	6.91	-186	0.922	1000*	0.46		0.25	10.50
0843	16.35	6.96	-159	0.875	225	1.36		0.25	11.25
0846	16.29	6.92	-144	0.868	1000*	0.96		0.25	12.00
Total Quantity of Water Removed (gal): <u>12, 12.5, 10</u>				Sampling Time: <u>1001</u>					
Samplers: <u>K, M, P, C</u>				Split Sample With: <u>—</u>					
Sampling Date: <u>5/31/23</u>				Sample Type: <u>grab</u>					
COMMENTS AND OBSERVATIONS: <u>0658: Flushed Horiba</u>									

* turbidity maxed out



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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-110R	EA Personnel: K. Cassidy	Client: NYSDEC
Location: Saranac Lake Gas Company, Inc. (516008)	Well Condition: Good	Weather: 70°F Sunny
Sounding Method:	Gauge Date: 5/30/23	Measurement Ref: TOC
Stick Up/Down (ft): STICK UP	Gauge Time: 0935	Well Diameter (in): 1

Purge Date: 5/31/23	Purge Time: 0758
Purge Method: low-flow peri pump	Field Technician: K. Cassidy

Well Volume

A. Well Depth (ft):	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Pump Intake Depth:

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
0849	15.88	6.93	-147	0.865	1000*	1.05		0.25	12.75
0852	15.80	6.88	-165	0.847	1000*	1.05		0.25	13.50
0858	Flushed		Horiba						
0901	21.04	6.78	-50	0.765	722	1.36		0.25	14.25
0904	20.37	6.68	-69	0.769	1000*	3.21		0.25	15.00
0907	20.29	6.84	-84	0.555	1000*	0.56		0.25	15.75
0910	20.25	6.86	-100	0.780	1000*	0.68		0.25	16.50
0913	19.84	6.82	-101	0.763	1000*	0.47		0.25	17.25
0916	19.49	6.79	-105	0.753	1000*	0.40		0.25	18.00
0919	19.43	6.79	-112	0.755	1000*	0.37		0.25	18.75
0922	19.49	6.81	-120	0.754	1000*	0.36		0.25	19.50
0925	19.57	6.80	-125	0.760	1000*	0.37		0.25	20.25
0928	19.79	6.80	-138	0.764	1000*	0.36		0.25	21.00
0931	19.94	6.79	-134	0.753	1000*	0.36		0.25	21.75
0934	20.03	6.79	-138	0.753	786	0.35		0.25	22.50
0937	20.08	6.79	-142	0.754	1000*	0.35		0.25	23.25
0940	20.12	6.78	-148	0.748	1000*	0.35		0.25	24.00

Total Quantity of Water Removed (gal):	Sampling Time:
Samplers:	Split Sample With:
Sampling Date:	Sample Type:

COMMENTS AND OBSERVATIONS:

0858: Flushed Horiba



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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-110R	EA Personnel: K. Cassidy	Client: NYSDEC
Location: Saranac Lake Gas Company, Inc. (516008)	Well Condition: Good	Weather: 70°F Sunny
Sounding Method:	Gauge Date: 5/30/23	Measurement Ref: TOC
Stick Up/Down (ft): Stick up	Gauge Time: 0935	Well Diameter (in): 1

Purge Date: 5/31/23	Purge Time: 0758
Purge Method: low-flow peri pump	Field Technician: K. Cassidy

Well Volume

A. Well Depth (ft):	D. Well Volume (ft):	Depth/Height of Top of PVC:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Pump Intake Depth:

Water Quality Parameters

[illegible]

Total Quantity of Water Removed (gal):	29.25 L	Sampling Time:	1001
Samplers:		Split Sample With:	
Sampling Date:		Sample Type:	amb

COMMENTS AND OBSERVATIONS:

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: NW-2045	EA Personnel: K. Cassidy	Client: NYSDEC	516008 Saranac Lake
Location: Saranac Lake Gas Company, Inc. (516008)	Well Condition: Good	Weather:	75°F sunny
Sounding Method: Horn WLM	Gauge Date: 5/30/23	Measurement Ref:	TOL
Stick Up/Down (ft): Stick up	Gauge Time: 0935	Well Diameter (in):	1

Purge Date: 5/30/23	Purge Time: 1201
Purge Method: low-flow per pump	Field Technician: K. Cassidy

Well Volume

A. Well Depth (ft):	28.20	D. Well Volume (ft):	0.041	Depth/Height of Top of PVC:	—
B. Depth to Water (ft):	12.96	E. Well Volume (gal) C*D):	0.625	Pump Type:	peristaltic pump
C. Liquid Depth (ft) (A-B):	15.24	F. Three Well Volumes (gal) (E3):	1.87	Pump Intake Depth:	mid-screen

Water Quality Parameters

[illegible]

Stopped
because
Homon
shut off,
waited
for values
to return
to normal

Total Quantity of Water Removed (gal):	<u>10.50L</u>	Sampling Time:	<u>1306</u>
Samplers:	<u>12</u>	Split Sample With:	<u>-</u>
Sampling Date:	<u>5/30/23</u>	Sample Type:	<u>grab</u>

COMMENTS AND OBSERVATIONS:



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GROUNDWATER SAMPLING PURGE FORM

Well ID.: <u>NW-204D</u>	EA Personnel: <u>K. Cassidy</u>	Client: <u>516008 Saranac Lake Gas Co</u>
Location: <u>Saranac Lake Gas Company, Inc. (516008)</u>	Well Condition:	Weather: <u>80°F Sunny</u>
Sounding Method: <u>Heron WLM</u>	Gauge Date: <u>5/30/23</u>	Measurement Ref: <u>TOL</u>
Stick Up/Down (ft): <u>stick up</u>	Gauge Time: <u>0935</u>	Well Diameter (in): <u>1</u>

Purge Date: <u>5/30/23</u>	Purge Time: <u>1332</u>
Purge Method: <u>low flow per pump</u>	Field Technician:

Well Volume

A. Well Depth (ft): <u>31.50</u>	D. Well Volume (ft): <u>0.041</u>	Depth/Height of Top of PVC: <u>—</u>
B. Depth to Water (ft): <u>13.36</u>	E. Well Volume (gal) C*D): <u>0.744</u>	Pump Type: <u>penitator pump</u>
C. Liquid Depth (ft) (A-B): <u>18.14</u>	F. Three Well Volumes (gal) (E3): <u>2.23</u>	Pump Intake Depth: <u>mid-screen</u>

Water Quality Parameters

Time (hrs)	Temperature (oC)	pH (pH units)	ORP (mV)	Conductivity (S/m)	Turbidity (ntu)	DO (mg/L)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1332	13.18	7.13	-257	81.4	111	27.70	13.40	0.25	—
1335	12.38	7.14	-261	83.3	127	28.56	13.40	0.25	0.75
1338	11.77	7.15	-265	84.6	139	29.09	13.40	0.25	1.50
1341	11.42	7.15	-267	85.3	170	29.53	13.40	0.25	2.25
1344	11.10	7.15	-268	86.1	196	30.00	13.40	0.25	3.00
1347	10.96	7.15	-267	86.5	118	30.21	13.40	0.25	3.75
1350	10.90	7.14	-266	86.5	100	30.39	13.40	0.25	4.50
1353	10.93	7.14	-266	86.8	82.9	30.41	13.40	0.25	5.25
1356	10.77	7.13	-266	86.9	80.6	30.46	13.40	0.25	6.00
1359	10.87	7.15	-266	86.7	411	30.27	13.40	0.25	6.75
1402	10.65	7.14	-264	87.2	30.0	30.30	13.40	0.25	7.50
1405	10.72	7.13	-264	87.1	27.4	30.51	13.40	0.25	8.25
1408	10.58	7.14	-264	87.4	27.3	30.69	13.40	0.25	9.00
1411	10.77	7.13	-264	86.1	27.1	30.35	13.40	0.25	9.75

Total Quantity of Water Removed (gal): <u>9.75L</u>	Sampling Time: <u>1411</u>
Samplers: <u>KE</u>	Split Sample With: <u>M/S/MSD</u>
Sampling Date: <u>5/30/23</u>	Sample Type: <u>grab</u>

COMMENTS AND OBSERVATIONS: M/S/MSD collected



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GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-2058	EA Personnel: M. Gilkey / K. Cassidy	Client: (516008) (Saranac Lake Gas Co)
Location: Saranac Lake Gas Company, Inc. (516008)	Well Condition: Good	Weather: 78°F; Sun; 5mph SW
Sounding Method: Heron WLM	Gauge Date: 05/30/23	Measurement Ref: TOC PVC
Stick Up/Down (ft): u3ft	Gauge Time: 0935	Well Diameter (in): 1" PVC

Purge Date: 05/30/23	Purge Time: 1425
Purge Method: Low flow- Perri Pump	Field Technician: M. Gilkey / K. Cassidy / M. Cokes-Carruthers

Well Volume

A. Well Depth (ft): 19.60	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC: _____
B. Depth to Water (ft): 11.92	E. Well Volume (gal) (C*D): 0.315	Pump Type: Petrastatic Pump
C. Liquid Depth (ft) (A-B): 7.68	F. Three Well Volumes (gal) (E3): 0.945	Pump Intake Depth: Mid-Screen

Water Quality Parameters

Time (hrs)	Temperature (°C)	pH (✓)	ORP (mV) ✓	Conductivity (S/m) ✓	Turbidity (ntu) (✓)	DO (mg/L) (✓)	DTW (ft btoc)	Rate (Lpm)	Volume (liters)
1426	27.30	8.86	62	0.118	80.5	4.64	12.95	0.28	0
1429	22.90	7.87	172	0.129	60.2	3.47	12.94		1.25
1432	20.98	7.68	200	0.125	69.3	3.09	12.93		2.50
1435	20.29	7.35	217	0.122	103	3.01	12.93		3.75
1438	18.87	7.19	223	0.122	110	3.00	12.93		5.00
1441	18.23	7.02	227	0.119	117	2.91			6.25
1444	18.41	6.85	229	0.120	113	2.75			7.50
1447	18.44	6.73	231	0.120	104	2.72			8.75
1450	18.64	6.62	230	0.120	93.4	2.66			10.00
1453	18.63	6.54	226	0.121	90.5	2.74			11.25
1456	18.65	6.47	221	0.122	83.2	2.74			12.50
1459	18.54	6.43	226	0.121	88.9	2.50			13.75
1502	18.21	6.41	230	0.121	70.6	2.48			15.0
1505	18.14	6.38	234	0.120	60.9	2.36			16.25
1508	18.22	6.37	236	0.120	65.5	1.64			17.5
1511	18.22	6.36	237	0.120	63.4	1.60			18.75
1514	18.22	6.34	239	0.120	55.4	1.60			20.0

Total Quantity of Water Removed (gal): 28.75(L)	Sampling Time: 1535
Samplers: M. Gilkey / K. Cassidy	Split Sample With: X
Sampling Date: 5/30/23	Sample Type: GRAB

COMMENTS AND OBSERVATIONS:

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-2055	EA Personnel: M. Griskey	Client: NYSDEC Saranac Lake Gas Co 516008
Location: Saranac Lake Gas Company, Inc. (516008)	Well Condition: see page 1	Weather: 80°F Sunny
Sounding Method:	Gauge Date:	Measurement Ref:
Stick Up/Down (ft):	Gauge Time:	Well Diameter (in):

Purge Date:	Purge Time:
Purge Method:	Field Technician:

Well Volume

A. Well Depth (ft):	D. Well Volume (ft): <i>See page 1</i>	Depth/Height of Top of PVC:
B. Depth to Water (ft):	E. Well Volume (gal) C*D):	Pump Type:
C. Liquid Depth (ft) (A-B):	F. Three Well Volumes (gal) (E3):	Pump Intake Depth:

Water Quality Parameters

[illegible]

Total Quantity of Water Removed (gal):	28.75(L)	Sampling Time:	1535
Samplers:	M. Wilken / K. Cassidy	Split Sample With:	X
Sampling Date:	05/20/23	Sample Type:	GRAB

COMMENTS AND OBSERVATIONS:

SAMPLE ID: 516608-MW-2055

Analysis: PAM

GROUNDWATER SAMPLING PURGE FORM

Well I.D.: MW-20SD	EA Personnel: M. Gitten/K. Cassidy	Client: NYSDEC	Saranac Lake Gas Co 516008
Location: Saranac Lake, NY Saranac Lake Gas Company, Inc. (516008)	Well Condition: Good	Weather: 79°F; Sunny	
Sounding Method: Heron WLM	Gauge Date: 05/30/23	Measurement Ref: TOC of PVR	
Stick Up/Down (ft): u 3ft	Gauge Time: 0935	Well Diameter (in): 1" PVC	

Purge Date:	05/30/23	Purge Time:	1100 1000
Purge Method:	Low-flow - Perri Pump	Field Technician:	M. Wilkey / K. Cassidy / M. Cole - Carrethers

Well Volume

A. Well Depth (ft): 33.25	D. Well Volume (ft): 0.041	Depth/Height of Top of PVC: —
B. Depth to Water (ft): 11.93	E. Well Volume (gal) C*D): 0.874	Pump Type: Peristaltic Pump
C. Liquid Depth (ft) (A-B): 21.32	F. Three Well Volumes (gal) (E3): 2.62	Pump Intake Depth: mid-screen

Water Quality Parameters

[illegible]

Total Quantity of Water Removed (gal):	<u>12.75 L</u>	Sampling Time:	<u>1635</u>
Samplers:	<u>M. Gifford / K. Cassidy</u>	Split Sample With:	<u>X</u>
Sampling Date:	<u>05/30/23</u>	Sample Type:	<u>GPAB</u>

COMMENTS AND OBSERVATIONS:



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SEDIMENT SAMPLE LOG

Coordinates:
Surface Water Elevation:
Reference Elevation:
Reference Description:

Northing:

Easting:

Job No.

Client: NYSDEC
Project: Saratoga Lake Gas Co.

Sampling Location Description:

Sample Method:

Depth of Water Body:

Width of Water Body:

Water Body Location:

Surface Conditions:

Weather:

Description of Sediment Water

Location

Sample Location ID:

Sheet 1 of 1

Start

Finish

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

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TIME

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TIME

DATE

TIME

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TIME

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TIME

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TIME

Total Quantity of Water Removed (gal):

Samples:

Sampling Date:

Sampling Time:

Split Sample With:

Sample Type:

Saratoga Lake, NY

SD-462

Sample Location ID: 3608-SD-462

Sheet 1 of 1

Sampling Date/Time

Start

Finish

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

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KC

5/31/23

1241

negative

Appendix G
Saranac Lake Gas Co., OU01, OU02 & OU03
Site Inspection Form

A. General Information

Inspector Name: Katie Cassidy
 Inspection Date: 5/30/23
 Weather (AM/PM): 70°F Sunny / 80°F Sunny
 Purpose for Inspection: Annual requirement, Q2 sampling event
 Comments: _____

B. Site Property (OU01)

The Site property is located at 24 Payeville Lane and encompasses the portion of the Site where in-situ solidification was conducted and a soil cover placed over it. Brandy Brook (OU02) is located North of the property and the property is surrounded by a perimeter fence.

	No	Yes
1. Are there any odors emanating from the site?	<u>X</u>	_____
2. Are there bare, dead or damaged vegetated areas along the wetland at the north end of the site?	<u>X</u>	_____
3. Is there any erosional damage to the slopes of the soil cover?	<u>X</u>	_____
4. Is there any evidence of excavation or damage to the soil cover?	<u>X</u>	_____
5. Is there visible damage to the perimeter fence?	_____	<u>X</u>
6. Is there visible damage to any of the monitoring wells?	<u>X</u>	_____
7. Is there any ponding water on or around the soil cover?	<u>X</u>	_____
8. Has any wildlife (terrestrial or aquatic) been observed?	_____	<u>X</u>
12. Were any groundwater samples collected?	_____	<u>X</u>
If so, what is the sample ID(s)? _____		

Comments: (Please comment for each question answered "yes")

Outer perimeter fence by site entrance has been damaged by downed tree. A few deer observed walking through OU1.

C. Brandy Brook (OU02)

OU02, Brandy Brook, extends from Pontiac Bay (culverted under Lake Flower Ave. and Slater Ave.) to OU01, or approximately 0.75 miles.

	No	Yes
1. Is there an increase in turbidity causing a visible contrast to natural conditions?	<u>X</u>	_____
2. Is there residue from oil and/or floating substances, visible oil film, or globules or grease?	<u>X</u>	_____
3. Are there any odors emanating from the brook?	<u>X</u>	_____
4. Are culverts free of debris/blockages?	_____	<u>X</u>

- | | | |
|---|--------------|-------|
| 5. Are there bare, dead or damaged vegetated areas along bank? | X | _____ |
| 6. Is there any erosional damage to the banks? | X | _____ |
| 7. Has backfill (construction) sediment accumulated in any locations? If yes, photograph. | X | _____ |
| 8. Is there any evidence of damage to the RCM? | X | _____ |
| 9. Are monitoring points in the proper, upright position? | _____ | X |
| 10. Insert the oil-water interface probe into each RCM monitoring stickup; is an interface observed? If yes, explain. | _____ | _____ |
| 11. Is any wildlife (terrestrial or aquatic) observed? | _____ | X N/A |
| 12. Were any sediment/water samples collected? | _____ | X |
| If so, what is the sample ID(s)? _____ | | |

Comments: (Please comment for each question answered "yes")

A few fish were observed in Brandy Brook.

D. Pontiac Bay (OU03)

Pontiac Bay is located in the northeastern portion of Lake Flower and encompasses the area east of the Lake Flower Boat Launch to the Brandy Brook culvert and south of the Lake Flower Boat Launch to the Fogarty's Lake Flower Marina.

	No	Yes
1. Is there an increase in turbidity causing a visible contrast to natural conditions?	<u>X</u>	<u> </u>
2. Is there residue from oil and/or floating substances, visible oil film, or globules or grease?	<u>X</u>	<u> </u>
3. Are there any odors emanating from the bay?	<u>X</u>	<u> </u>
4. Are there bare, dead or damaged vegetated areas along bank?	<u>X</u>	<u> </u>
5. Is there any erosional damage to the banks?	<u>X</u>	<u> </u>
6. Is there any damage to structural retaining walls along banks?	<u>X</u>	<u> </u>
7. Is there visible damage to the Aquablok® barrier layer?	<u>X</u>	<u> </u>
8. Has any wildlife (terrestrial or aquatic) been observed?	<u> </u>	<u>X</u>
9. Were any surface water samples collected?	<u> </u>	<u>X</u>
If so, what is the sample ID(s)? <u>SW-403</u>		

Comments: (Please comment for each question answered "yes")

A few fish observed in Pontiac Bay

E. Site Management Activities

Upon completion of the inspection the following should be checked for compliance with the SMP.

	No	Yes
1. Was routine sampling conducted during this inspection?		☒
2. Was a Health and Safety Inspection Conducted?	☒	
3. Are there any known missing site records?	☒	
4. Are Engineering controls performing as designed?		☒
5. Do EC/ICs continue to be protective of human health and the environment?		☒
6. Is the remedial performance criteria being achieved?		☒
7. Is the site in compliance with the requirements of the SMP?		☒

Comments: (Please comment for each question answered "no")

Notes from last inspection: (Please review and comment)

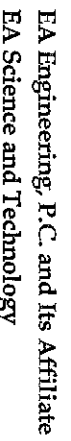
Katie Cassidy
Inspector

K Cassidy
Signature

5/30/2023
Date

Reviewer

Date



SURFACE WATER SAMPLE LOG

Coordinates:
Surface Water Elevation:
Reference Elevation:
Reference Description:

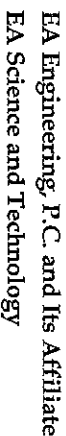
Job No.	Client:	NYSDEC	Location
	Project:	Saranac Lake Gas Co.	Saranac Lake, NY
Sampling Location Description:	Sample Location ID:		
	51e08-500-401		
Sample Method:	Sheet 1 of 1		
Depth of Water Body:	Sampling Date/Time		
Width of Water Body:	Start	Finish	
Water Body Location	DATE	DATE	

Water Quality Parameters							Surface Conditions:	
Time	pH	Cond.	Turb.	DO	Temp	ORP	Weather:	Description of Surface Water
(hrs)	(pH units)	(mS/cm)	(ntu)	(mg/L)	(°C)	(mV)		
1138	7.04	0.143	12.6	9.27	28.73	71	Clear	

Total Quantity of Water Removed (gal):
Samplers:
Sampling Date:

Sampling Time: 1138
Split Sample With: field duplicate
Sample Type: gas

5131/2
1138



SURFACE WATER SAMPLE LOG

Coordinates:	Surface Water Elevation:	Reference Elevation:	Reference Description:

Job. No.	Client:	NYSDEC	Location	Saranac Lake, NY
	Project:	Saranac Lake Gas Co.		
Sampling Location Description:			Sample Location ID:	
005 Pentice Bay			SL005R-SL-463	
Sample Method:			Sheet 1 of 1	
Depth of Water Body:			Sampling Date/Time	
Width of Water Body:			Start	Finish
Water Body Location			DATE	DATE

[illegible]

Total Quantity of Water Removed (gal):
Samplers:
Sampling Date:

Sampling Time: 1320
Split Sample With: —
Sample Type: 91A5

5/31/21
1328

Appendix C

Laboratory Reports

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June 15, 2023

Joshua Oliver
NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202

Project Location: Saranac Lake, NY
Client Job Number:
Project Number: 516008
Laboratory Work Order Number: 23F0343

Enclosed are results of analyses for samples as received by the laboratory on June 2, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle K. Stuckey
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

NYDEC_EA Engineering, Science & Tech. - NY
269 W. Jefferson Street
Syracuse, NY 13202
ATTN: Joshua Oliver

REPORT DATE: 6/15/2023

PURCHASE ORDER NUMBER: 145596

PROJECT NUMBER: 516008

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 23F0343

The results of analyses performed on the following samples submitted to CON-TEST, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Saranac Lake, NY

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
516008-MW-204S	23F0343-01	Ground Water		SW-846 8270E	
516008-MW-106R	23F0343-02	Ground Water		SW-846 8270E	
516008-MW-204D	23F0343-03	Ground Water		SW-846 8270E	
516008-MW-205S	23F0343-04	Ground Water		SW-846 8270E	
516008-MW-104	23F0343-05	Ground Water		SW-846 8270E	
516008-MW-205D	23F0343-06	Ground Water		SW-846 8270E	
516008-MW-108R	23F0343-07	Ground Water		SW-846 8270E	
516008-MW-110R	23F0343-08	Ground Water		SW-846 8270E	
516008-SW-400	23F0343-09	Surface Water		SW-846 8270E	
516008-SD-400	23F0343-10	Soil		SM 2540G	
				SW-846 8270E	
516008-SW-401	23F0343-11	Surface Water		SW-846 8270E	
516008-SD-401	23F0343-12	Soil		SM 2540G	
				SW-846 8270E	
516008-SW-402	23F0343-13	Surface Water		SW-846 8270E	
516008-SD-402	23F0343-14	Soil		SM 2540G	
				SW-846 8270E	
516008-SW-403	23F0343-15	Surface Water		SW-846 8270E	
516008-FD-GW	23F0343-16	Ground Water		SW-846 8270E	
516008-FD-SW	23F0343-17	Surface Water		SW-846 8270E	
516008-FD-SD	23F0343-18	Soil		SM 2540G	
				SW-846 8270E	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270E, only PAHs were requested and reported.

SW-846 8270E**Qualifications:****MS-22**

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:**2-Methylnaphthalene**

B342496-MS1

Naphthalene

B342496-MS1

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:**2-Fluorobiphenyl**

23F0343-06RE2[516008-MW-205D]

Nitrobenzene-d5

23F0343-06RE2[516008-MW-205D]

p-Terphenyl-d14

23F0343-06RE2[516008-MW-205D]

V-05

Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

Analyte & Samples(s) Qualified:**Benzo(g,h,i)perylene**

23F0343-08[516008-MW-110R], 23F0343-09[516008-SW-400], 23F0343-11[516008-SW-401], 23F0343-13[516008-SW-402], 23F0343-15[516008-SW-403], 23F0343-16[516008-FD-GW], 23F0343-17[516008-FD-SW], B342496-BS1, B342496-MS1, B342496-MSD1, S088995-CCV1

Dibenz(a,h)anthracene

23F0343-08[516008-MW-110R], 23F0343-09[516008-SW-400], 23F0343-11[516008-SW-401], 23F0343-13[516008-SW-402], 23F0343-15[516008-SW-403], 23F0343-16[516008-FD-GW], 23F0343-17[516008-FD-SW], B342496-BS1, B342496-MS1, B342496-MSD1, S088995-CCV1

Indeno(1,2,3-cd)pyrene

23F0343-08[516008-MW-110R], 23F0343-09[516008-SW-400], 23F0343-11[516008-SW-401], 23F0343-13[516008-SW-402], 23F0343-15[516008-SW-403], 23F0343-16[516008-FD-GW], 23F0343-17[516008-FD-SW], B342496-BS1, B342496-MS1, B342496-MSD1, S088995-CCV1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake, NY

Sample Description:

Work Order: 23F0343

Date Received: 6/2/2023

Field Sample #: 516008-MW-204S

Sampled: 5/30/2023 13:06

Sample ID: 23F0343-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	3.7	4.8	0.52	µg/L	1	J	SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Acenaphthylene	17	4.8	0.54	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Anthracene	ND	4.8	0.48	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Benzo(a)anthracene	ND	4.8	0.44	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Benzo(a)pyrene	ND	4.8	0.67	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Benzo(b)fluoranthene	ND	4.8	0.53	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Benzo(g,h,i)perylene	ND	4.8	0.65	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Benzo(k)fluoranthene	ND	4.8	0.61	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Chrysene	ND	4.8	0.43	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Dibenz(a,h)anthracene	ND	4.8	0.71	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Fluoranthene	ND	4.8	0.46	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Fluorene	3.3	4.8	0.52	µg/L	1	J	SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Indeno(1,2,3-cd)pyrene	ND	4.8	0.75	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
2-Methylnaphthalene	5.9	4.8	0.65	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Naphthalene	200	19	2.3	µg/L	4		SW-846 8270E	6/6/23	6/10/23 13:56	AR2
Phenanthrene	1.2	4.8	0.49	µg/L	1	J	SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Pyrene	ND	4.8	0.63	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:30	AR2
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	82.3		30-130				6/9/23 19:30			
Nitrobenzene-d5	84.8		30-130				6/10/23 13:56			
2-Fluorobiphenyl	84.2		30-130				6/9/23 19:30			
2-Fluorobiphenyl	83.2		30-130				6/10/23 13:56			
p-Terphenyl-d14	79.0		30-130				6/9/23 19:30			
p-Terphenyl-d14	84.6		30-130				6/10/23 13:56			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake, NY

Sample Description:

Work Order: 23F0343

Date Received: 6/2/2023

Field Sample #: 516008-MW-106R

Sampled: 5/30/2023 13:27

Sample ID: 23F0343-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	39	5.0	0.54	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:51	AR2
Acenaphthylene	24	5.0	0.56	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:51	AR2
Anthracene	3.3	5.0	0.50	µg/L	1	J	SW-846 8270E	6/6/23	6/9/23 19:51	AR2
Benzo(a)anthracene	ND	5.0	0.46	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:51	AR2
Benzo(a)pyrene	ND	5.0	0.70	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:51	AR2
Benzo(b)fluoranthene	ND	5.0	0.55	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:51	AR2
Benzo(g,h,i)perylene	ND	5.0	0.68	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:51	AR2
Benzo(k)fluoranthene	ND	5.0	0.63	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:51	AR2
Chrysene	ND	5.0	0.44	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:51	AR2
Dibenz(a,h)anthracene	ND	5.0	0.74	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:51	AR2
Fluoranthene	2.0	5.0	0.48	µg/L	1	J	SW-846 8270E	6/6/23	6/9/23 19:51	AR2
Fluorene	13	5.0	0.54	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:51	AR2
Indeno(1,2,3-cd)pyrene	ND	5.0	0.78	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:51	AR2
2-Methylnaphthalene	140	50	6.8	µg/L	10		SW-846 8270E	6/6/23	6/10/23 14:18	AR2
Naphthalene	500	50	6.0	µg/L	10		SW-846 8270E	6/6/23	6/10/23 14:18	AR2
Phenanthrene	21	5.0	0.51	µg/L	1		SW-846 8270E	6/6/23	6/9/23 19:51	AR2
Pyrene	2.8	5.0	0.66	µg/L	1	J	SW-846 8270E	6/6/23	6/9/23 19:51	AR2
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	82.5		30-130							
Nitrobenzene-d5	86.6		30-130							
2-Fluorobiphenyl	84.1		30-130							
2-Fluorobiphenyl	88.8		30-130							
p-Terphenyl-d14	87.0		30-130							
p-Terphenyl-d14	94.2		30-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake, NY

Sample Description:

Work Order: 23F0343

Date Received: 6/2/2023

Field Sample #: 516008-MW-204D

Sampled: 5/30/2023 14:11

Sample ID: 23F0343-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	8.8	4.9	0.52	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:13	AR2
Acenaphthylene	38	4.9	0.54	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:13	AR2
Anthracene	2.2	4.9	0.48	µg/L	1	J	SW-846 8270E	6/6/23	6/9/23 20:13	AR2
Benzo(a)anthracene	ND	4.9	0.45	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:13	AR2
Benzo(a)pyrene	ND	4.9	0.68	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:13	AR2
Benzo(b)fluoranthene	ND	4.9	0.53	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:13	AR2
Benzo(g,h,i)perylene	ND	4.9	0.66	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:13	AR2
Benzo(k)fluoranthene	ND	4.9	0.61	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:13	AR2
Chrysene	ND	4.9	0.43	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:13	AR2
Dibenz(a,h)anthracene	ND	4.9	0.72	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:13	AR2
Fluoranthene	0.88	4.9	0.47	µg/L	1	J	SW-846 8270E	6/6/23	6/9/23 20:13	AR2
Fluorene	13	4.9	0.52	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:13	AR2
Indeno(1,2,3-cd)pyrene	ND	4.9	0.76	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:13	AR2
2-Methylnaphthalene	13	4.9	0.66	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:13	AR2
Naphthalene	190	19	2.3	µg/L	4		SW-846 8270E	6/6/23	6/10/23 14:39	AR2
Phenanthrene	9.8	4.9	0.50	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:13	AR2
Pyrene	0.90	4.9	0.64	µg/L	1	J	SW-846 8270E	6/6/23	6/9/23 20:13	AR2
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	68.1		30-130							
Nitrobenzene-d5	69.0		30-130							
2-Fluorobiphenyl	71.8		30-130							
2-Fluorobiphenyl	75.6		30-130							
p-Terphenyl-d14	72.3		30-130							
p-Terphenyl-d14	77.8		30-130							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake, NY

Sample Description:

Work Order: 23F0343

Date Received: 6/2/2023

Field Sample #: 516008-MW-205S

Sampled: 5/30/2023 15:35

Sample ID: 23F0343-04

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	1.3	5.1	0.54	µg/L	1	J	SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Acenaphthylene	ND	5.1	0.56	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Anthracene	ND	5.1	0.50	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Benzo(a)anthracene	ND	5.1	0.47	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Benzo(a)pyrene	ND	5.1	0.71	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Benzo(b)fluoranthene	ND	5.1	0.55	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Benzo(g,h,i)perylene	ND	5.1	0.69	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Benzo(k)fluoranthene	ND	5.1	0.64	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Chrysene	ND	5.1	0.45	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Dibenz(a,h)anthracene	ND	5.1	0.75	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Fluoranthene	ND	5.1	0.48	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Fluorene	0.62	5.1	0.54	µg/L	1	J	SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Indeno(1,2,3-cd)pyrene	ND	5.1	0.79	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
2-Methylnaphthalene	ND	5.1	0.68	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Naphthalene	ND	5.1	0.60	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Phenanthrene	ND	5.1	0.52	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Pyrene	ND	5.1	0.66	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:34	AR2
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	70.2		30-130							
2-Fluorobiphenyl	75.4		30-130							
p-Terphenyl-d14	83.7		30-130							

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Project Location: Saranac Lake, NY

Sample Description:

Work Order: 23F0343

Date Received: 6/2/2023

Field Sample #: 516008-MW-104

Sampled: 5/30/2023 16:16

Sample ID: 23F0343-05

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	94	4.9	0.52	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Acenaphthylene	88	4.9	0.54	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Anthracene	8.6	4.9	0.48	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Benzo(a)anthracene	ND	4.9	0.45	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Benzo(a)pyrene	ND	4.9	0.68	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Benzo(b)fluoranthene	ND	4.9	0.53	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Benzo(g,h,i)perylene	ND	4.9	0.66	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Benzo(k)fluoranthene	ND	4.9	0.61	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Chrysene	ND	4.9	0.43	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Dibenz(a,h)anthracene	ND	4.9	0.72	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Fluoranthene	3.3	4.9	0.47	µg/L	1	J	SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Fluorene	39	4.9	0.52	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Indeno(1,2,3-cd)pyrene	ND	4.9	0.76	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
2-Methylnaphthalene	370	49	6.6	µg/L	10		SW-846 8270E	6/6/23	6/10/23 15:00	AR2
Naphthalene	500	49	5.8	µg/L	10		SW-846 8270E	6/6/23	6/10/23 15:00	AR2
Phenanthrene	52	4.9	0.50	µg/L	1		SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Pyrene	4.1	4.9	0.64	µg/L	1	J	SW-846 8270E	6/6/23	6/9/23 20:55	AR2
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	80.0		30-130							
Nitrobenzene-d5	69.0		30-130							
2-Fluorobiphenyl	76.2		30-130							
2-Fluorobiphenyl	73.9		30-130							
p-Terphenyl-d14	80.6		30-130							
p-Terphenyl-d14	76.1		30-130							

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Project Location: Saranac Lake, NY

Sample Description:

Work Order: 23F0343

Date Received: 6/2/2023

Field Sample #: 516008-MW-205D

Sampled: 5/30/2023 16:35

Sample ID: 23F0343-06

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	27	5.2	0.56	µg/L	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Acenaphthylene	150	52	5.8	µg/L	10		SW-846 8270E	6/6/23	6/10/23 15:21	AR2
Anthracene	2.6	5.2	0.51	µg/L	1	J	SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Benzo(a)anthracene	ND	5.2	0.47	µg/L	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Benzo(a)pyrene	ND	5.2	0.72	µg/L	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Benzo(b)fluoranthene	ND	5.2	0.56	µg/L	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Benzo(g,h,i)perylene	ND	5.2	0.70	µg/L	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Benzo(k)fluoranthene	ND	5.2	0.65	µg/L	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Chrysene	ND	5.2	0.46	µg/L	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Dibenz(a,h)anthracene	ND	5.2	0.76	µg/L	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Fluoranthene	ND	5.2	0.49	µg/L	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Fluorene	26	5.2	0.56	µg/L	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Indeno(1,2,3-cd)pyrene	ND	5.2	0.81	µg/L	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
2-Methylnaphthalene	140	52	7.0	µg/L	10		SW-846 8270E	6/6/23	6/10/23 15:21	AR2
Naphthalene	2300	260	31	µg/L	50		SW-846 8270E	6/6/23	6/12/23 18:49	AR2
Phenanthrene	25	5.2	0.53	µg/L	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Pyrene	ND	5.2	0.68	µg/L	1		SW-846 8270E	6/6/23	6/9/23 21:16	AR2
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	78.0		30-130							
Nitrobenzene-d5	75.1		30-130							
Nitrobenzene-d5	*		30-130		S-01					
2-Fluorobiphenyl	82.9		30-130							
2-Fluorobiphenyl	83.4		30-130							
2-Fluorobiphenyl	*		30-130		S-01					
p-Terphenyl-d14	83.1		30-130							
p-Terphenyl-d14	81.2		30-130							
p-Terphenyl-d14	*		30-130		S-01					

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Project Location: Saranac Lake, NY

Sample Description:

Work Order: 23F0343

Date Received: 6/2/2023

Field Sample #: 516008-MW-108R

Sampled: 5/31/2023 08:30

Sample ID: 23F0343-07

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.9	0.52	µg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Acenaphthylene	ND	4.9	0.54	µg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Anthracene	ND	4.9	0.48	µg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Benzo(a)anthracene	ND	4.9	0.45	µg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Benzo(a)pyrene	ND	4.9	0.68	µg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Benzo(b)fluoranthene	ND	4.9	0.53	µg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Benzo(g,h,i)perylene	ND	4.9	0.66	µg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Benzo(k)fluoranthene	ND	4.9	0.61	µg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Chrysene	ND	4.9	0.43	µg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Dibenz(a,h)anthracene	ND	4.9	0.72	µg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Fluoranthene	ND	4.9	0.47	µg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Fluorene	ND	4.9	0.52	µg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Indeno(1,2,3-cd)pyrene	ND	4.9	0.76	µg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
2-Methylnaphthalene	ND	4.9	0.66	µg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Naphthalene	ND	4.9	0.58	µg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Phenanthrene	ND	4.9	0.50	µg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Pyrene	ND	4.9	0.64	µg/L	1		SW-846 8270E	6/7/23	6/10/23 12:32	AR2
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		66.8	30-130						6/10/23 12:32	
2-Fluorobiphenyl		64.4	30-130						6/10/23 12:32	
p-Terphenyl-d14		74.6	30-130						6/10/23 12:32	

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Project Location: Saranac Lake, NY

Sample Description:

Work Order: 23F0343

Date Received: 6/2/2023

Field Sample #: 516008-MW-110R

Sampled: 5/31/2023 10:01

Sample ID: 23F0343-08

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.8	0.52	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Acenaphthylene	ND	4.8	0.54	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Anthracene	ND	4.8	0.48	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Benzo(a)anthracene	ND	4.8	0.44	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Benzo(a)pyrene	ND	4.8	0.67	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Benzo(b)fluoranthene	ND	4.8	0.53	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Benzo(g,h,i)perylene	ND	4.8	0.65	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Benzo(k)fluoranthene	ND	4.8	0.61	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Chrysene	ND	4.8	0.43	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Dibenz(a,h)anthracene	ND	4.8	0.71	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Fluoranthene	ND	4.8	0.46	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Fluorene	ND	4.8	0.52	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Indeno(1,2,3-cd)pyrene	ND	4.8	0.75	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 10:16	AR2
2-Methylnaphthalene	ND	4.8	0.65	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Naphthalene	ND	4.8	0.57	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Phenanthrene	ND	4.8	0.49	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Pyrene	ND	4.8	0.63	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:16	AR2
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	65.6		30-130							
2-Fluorobiphenyl	65.2		30-130							
p-Terphenyl-d14	56.0		30-130							

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Project Location: Saranac Lake, NY

Sample Description:

Work Order: 23F0343

Date Received: 6/2/2023

Field Sample #: 516008-SW-400

Sampled: 5/31/2023 11:05

Sample ID: 23F0343-09

Sample Matrix: Surface Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.8	0.52	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Acenaphthylene	ND	4.8	0.54	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Anthracene	ND	4.8	0.48	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Benzo(a)anthracene	ND	4.8	0.44	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Benzo(a)pyrene	ND	4.8	0.67	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Benzo(b)fluoranthene	ND	4.8	0.53	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Benzo(g,h,i)perylene	ND	4.8	0.65	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Benzo(k)fluoranthene	ND	4.8	0.61	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Chrysene	ND	4.8	0.43	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Dibenz(a,h)anthracene	ND	4.8	0.71	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Fluoranthene	ND	4.8	0.46	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Fluorene	ND	4.8	0.52	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Indeno(1,2,3-cd)pyrene	ND	4.8	0.75	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 10:37	AR2
2-Methylnaphthalene	ND	4.8	0.65	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Naphthalene	ND	4.8	0.57	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Phenanthrene	ND	4.8	0.49	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Pyrene	ND	4.8	0.63	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:37	AR2
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	62.9		30-130							
2-Fluorobiphenyl	63.5		30-130							
p-Terphenyl-d14	73.0		30-130							

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Project Location: Saranac Lake, NY

Sample Description:

Work Order: 23F0343

Date Received: 6/2/2023

Field Sample #: 516008-SD-400

Sampled: 5/30/2023 13:06

Sample ID: 23F0343-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	0.082	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Acenaphthylene	ND	0.22	0.084	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Anthracene	ND	0.22	0.083	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Benzo(a)anthracene	ND	0.22	0.078	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Benzo(a)pyrene	ND	0.22	0.071	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Benzo(b)fluoranthene	ND	0.22	0.072	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Benzo(g,h,i)perylene	ND	0.22	0.090	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Benzo(k)fluoranthene	ND	0.22	0.078	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Chrysene	ND	0.22	0.078	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Dibenz(a,h)anthracene	ND	0.22	0.083	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Fluoranthene	ND	0.22	0.077	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Fluorene	ND	0.22	0.084	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	0.094	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
2-Methylnaphthalene	ND	0.22	0.084	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Naphthalene	ND	0.22	0.086	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Phenanthrene	ND	0.22	0.084	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Pyrene	ND	0.22	0.086	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:32	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	74.0		30-130							
2-Fluorobiphenyl	73.4		30-130							
p-Terphenyl-d14	79.8		30-130							

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Project Location: Saranac Lake, NY

Sample Description:

Work Order: 23F0343

Date Received: 6/2/2023

Field Sample #: 516008-SD-400

Sampled: 5/30/2023 13:06

Sample ID: 23F0343-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.9		% Wt	1		SM 2540G	6/6/23	6/6/23 8:30	DRL

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Project Location: Saranac Lake, NY

Sample Description:

Work Order: 23F0343

Date Received: 6/2/2023

Field Sample #: 516008-SW-401

Sampled: 5/31/2023 11:38

Sample ID: 23F0343-11

Sample Matrix: Surface Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.9	0.52	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Acenaphthylene	ND	4.9	0.54	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Anthracene	ND	4.9	0.48	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Benzo(a)anthracene	ND	4.9	0.45	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Benzo(a)pyrene	ND	4.9	0.68	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Benzo(b)fluoranthene	ND	4.9	0.53	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Benzo(g,h,i)perylene	ND	4.9	0.66	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Benzo(k)fluoranthene	ND	4.9	0.61	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Chrysene	ND	4.9	0.43	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Dibenz(a,h)anthracene	ND	4.9	0.72	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Fluoranthene	ND	4.9	0.47	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Fluorene	ND	4.9	0.52	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Indeno(1,2,3-cd)pyrene	ND	4.9	0.76	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 10:59	AR2
2-Methylnaphthalene	ND	4.9	0.66	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Naphthalene	ND	4.9	0.58	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Phenanthrene	ND	4.9	0.50	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Pyrene	ND	4.9	0.64	µg/L	1		SW-846 8270E	6/7/23	6/13/23 10:59	AR2
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		57.6	30-130						6/13/23 10:59	
2-Fluorobiphenyl		55.6	30-130						6/13/23 10:59	
p-Terphenyl-d14		67.3	30-130						6/13/23 10:59	

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Project Location: Saranac Lake, NY

Sample Description:

Work Order: 23F0343

Date Received: 6/2/2023

Field Sample #: 516008-SD-401

Sampled: 5/31/2023 11:48

Sample ID: 23F0343-12

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.079	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Acenaphthylene	ND	0.21	0.081	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Anthracene	ND	0.21	0.080	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Benzo(a)anthracene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Benzo(a)pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Benzo(b)fluoranthene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Benzo(g,h,i)perylene	ND	0.21	0.086	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Benzo(k)fluoranthene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Chrysene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Dibenz(a,h)anthracene	ND	0.21	0.080	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Fluoranthene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Fluorene	ND	0.21	0.080	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.090	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
2-Methylnaphthalene	ND	0.21	0.081	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Naphthalene	ND	0.21	0.083	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Phenanthrene	ND	0.21	0.081	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Pyrene	ND	0.21	0.082	mg/Kg dry	1		SW-846 8270E	6/7/23	6/10/23 1:57	BGL
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	68.2		30-130				6/10/23 1:57			
2-Fluorobiphenyl	70.3		30-130				6/10/23 1:57			
p-Terphenyl-d14	85.5		30-130				6/10/23 1:57			

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Project Location: Saranac Lake, NY

Sample Description:

Work Order: 23F0343

Date Received: 6/2/2023

Field Sample #: 516008-SD-401

Sampled: 5/31/2023 11:48

Sample ID: 23F0343-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.3		% Wt	1		SM 2540G	6/8/23	6/8/23 7:24	DRL

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Project Location: Saranac Lake, NY

Sample Description:

Work Order: 23F0343

Date Received: 6/2/2023

Field Sample #: 516008-SW-402

Sampled: 5/31/2023 12:41

Sample ID: 23F0343-13

Sample Matrix: Surface Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.9	0.52	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Acenaphthylene	ND	4.9	0.54	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Anthracene	ND	4.9	0.48	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Benzo(a)anthracene	ND	4.9	0.45	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Benzo(a)pyrene	ND	4.9	0.68	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Benzo(b)fluoranthene	ND	4.9	0.53	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Benzo(g,h,i)perylene	ND	4.9	0.66	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Benzo(k)fluoranthene	ND	4.9	0.61	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Chrysene	ND	4.9	0.43	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Dibenz(a,h)anthracene	ND	4.9	0.72	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Fluoranthene	ND	4.9	0.47	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Fluorene	ND	4.9	0.52	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Indeno(1,2,3-cd)pyrene	ND	4.9	0.76	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 11:20	AR2
2-Methylnaphthalene	ND	4.9	0.66	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Naphthalene	ND	4.9	0.58	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Phenanthrene	ND	4.9	0.50	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Pyrene	ND	4.9	0.64	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:20	AR2
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	62.3		30-130							
2-Fluorobiphenyl	54.7		30-130							
p-Terphenyl-d14	80.7		30-130							

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Project Location: Saranac Lake, NY

Sample Description:

Work Order: 23F0343

Date Received: 6/2/2023

Field Sample #: 516008-SD-402

Sampled: 5/31/2023 12:51

Sample ID: 23F0343-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.078	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Acenaphthylene	ND	0.20	0.080	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Anthracene	ND	0.20	0.079	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Benzo(a)anthracene	ND	0.20	0.073	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Benzo(a)pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Benzo(b)fluoranthene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Benzo(g,h,i)perylene	ND	0.20	0.085	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Benzo(k)fluoranthene	ND	0.20	0.073	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Chrysene	ND	0.20	0.074	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Dibenz(a,h)anthracene	ND	0.20	0.079	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Fluoranthene	ND	0.20	0.073	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Fluorene	ND	0.20	0.079	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Indeno(1,2,3-cd)pyrene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
2-Methylnaphthalene	ND	0.20	0.080	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Naphthalene	ND	0.20	0.081	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Phenanthrene	ND	0.20	0.080	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Pyrene	0.084	0.20	0.081	mg/Kg dry	1	J	SW-846 8270E	6/9/23	6/14/23 14:00	AR2
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	75.6		30-130							
2-Fluorobiphenyl	75.8		30-130							
p-Terphenyl-d14	80.0		30-130							

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Project Location: Saranac Lake, NY

Sample Description:

Work Order: 23F0343

Date Received: 6/2/2023

Field Sample #: 516008-SD-402

Sampled: 5/31/2023 12:51

Sample ID: 23F0343-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.3		% Wt	1		SM 2540G	6/9/23	6/9/23 11:54	JLC

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Project Location: Saranac Lake, NY

Sample Description:

Work Order: 23F0343

Date Received: 6/2/2023

Field Sample #: 516008-SW-403

Sampled: 5/31/2023 13:20

Sample ID: 23F0343-15

Sample Matrix: Surface Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.9	0.52	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Acenaphthylene	ND	4.9	0.54	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Anthracene	ND	4.9	0.48	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Benzo(a)anthracene	ND	4.9	0.45	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Benzo(a)pyrene	ND	4.9	0.68	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Benzo(b)fluoranthene	ND	4.9	0.53	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Benzo(g,h,i)perylene	ND	4.9	0.66	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Benzo(k)fluoranthene	ND	4.9	0.61	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Chrysene	ND	4.9	0.43	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Dibenz(a,h)anthracene	ND	4.9	0.72	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Fluoranthene	ND	4.9	0.47	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Fluorene	ND	4.9	0.52	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Indeno(1,2,3-cd)pyrene	ND	4.9	0.76	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 11:42	AR2
2-Methylnaphthalene	ND	4.9	0.66	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Naphthalene	ND	4.9	0.58	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Phenanthrene	ND	4.9	0.50	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Pyrene	ND	4.9	0.64	µg/L	1		SW-846 8270E	6/7/23	6/13/23 11:42	AR2
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	53.3		30-130							
2-Fluorobiphenyl	54.4		30-130							
p-Terphenyl-d14	67.7		30-130							

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Project Location: Saranac Lake, NY

Sample Description:

Work Order: 23F0343

Date Received: 6/2/2023

Field Sample #: 516008-FD-GW

Sampled: 5/31/2023 00:00

Sample ID: 23F0343-16

Sample Matrix: Ground Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.9	0.52	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Acenaphthylene	ND	4.9	0.54	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Anthracene	ND	4.9	0.48	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Benzo(a)anthracene	ND	4.9	0.45	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Benzo(a)pyrene	ND	4.9	0.68	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Benzo(b)fluoranthene	ND	4.9	0.53	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Benzo(g,h,i)perylene	ND	4.9	0.66	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Benzo(k)fluoranthene	ND	4.9	0.61	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Chrysene	ND	4.9	0.43	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Dibenz(a,h)anthracene	ND	4.9	0.72	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Fluoranthene	ND	4.9	0.47	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Fluorene	ND	4.9	0.52	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Indeno(1,2,3-cd)pyrene	ND	4.9	0.76	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 12:03	AR2
2-Methylnaphthalene	ND	4.9	0.66	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Naphthalene	ND	4.9	0.58	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Phenanthrene	ND	4.9	0.50	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Pyrene	ND	4.9	0.64	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:03	AR2
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		69.4	30-130						6/13/23 12:03	
2-Fluorobiphenyl		67.0	30-130						6/13/23 12:03	
p-Terphenyl-d14		73.4	30-130						6/13/23 12:03	

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Project Location: Saranac Lake, NY

Sample Description:

Work Order: 23F0343

Date Received: 6/2/2023

Field Sample #: 516008-FD-SW

Sampled: 5/31/2023 00:00

Sample ID: 23F0343-17

Sample Matrix: Surface Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	4.9	0.53	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Acenaphthylene	ND	4.9	0.55	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Anthracene	ND	4.9	0.49	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Benzo(a)anthracene	ND	4.9	0.45	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Benzo(a)pyrene	ND	4.9	0.68	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Benzo(b)fluoranthene	ND	4.9	0.54	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Benzo(g,h,i)perylene	ND	4.9	0.67	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Benzo(k)fluoranthene	ND	4.9	0.62	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Chrysene	ND	4.9	0.44	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Dibenz(a,h)anthracene	ND	4.9	0.73	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Fluoranthene	ND	4.9	0.47	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Fluorene	ND	4.9	0.53	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Indeno(1,2,3-cd)pyrene	ND	4.9	0.77	µg/L	1	V-05	SW-846 8270E	6/7/23	6/13/23 12:24	AR2
2-Methylnaphthalene	ND	4.9	0.66	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Naphthalene	ND	4.9	0.59	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Phenanthrene	ND	4.9	0.50	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Pyrene	ND	4.9	0.64	µg/L	1		SW-846 8270E	6/7/23	6/13/23 12:24	AR2
Surrogates		% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5		53.2	30-130						6/13/23 12:24	
2-Fluorobiphenyl		46.1	30-130						6/13/23 12:24	
p-Terphenyl-d14		61.8	30-130						6/13/23 12:24	

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Project Location: Saranac Lake, NY

Sample Description:

Work Order: 23F0343

Date Received: 6/2/2023

Field Sample #: 516008-FD-SD

Sampled: 5/31/2023 00:00

Sample ID: 23F0343-18

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.076	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2
Acenaphthylene	ND	0.20	0.078	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2
Anthracene	ND	0.20	0.077	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2
Benzo(a)anthracene	ND	0.20	0.072	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2
Benzo(a)pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2
Benzo(b)fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2
Benzo(g,h,i)perylene	ND	0.20	0.083	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2
Benzo(k)fluoranthene	ND	0.20	0.072	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2
Chrysene	ND	0.20	0.072	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2
Dibenz(a,h)anthracene	ND	0.20	0.077	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2
Fluoranthene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2
Fluorene	ND	0.20	0.077	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2
Indeno(1,2,3-cd)pyrene	ND	0.20	0.087	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2
2-Methylnaphthalene	ND	0.20	0.078	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2
Naphthalene	ND	0.20	0.079	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2
Phenanthrene	ND	0.20	0.078	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2
Pyrene	ND	0.20	0.079	mg/Kg dry	1		SW-846 8270E	6/9/23	6/14/23 14:24	AR2
Surrogates	% Recovery		Recovery Limits		Flag/Qual					
Nitrobenzene-d5	78.2		30-130						6/14/23 14:24	
2-Fluorobiphenyl	77.9		30-130						6/14/23 14:24	
p-Terphenyl-d14	83.8		30-130						6/14/23 14:24	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Saranac Lake, NY

Sample Description:

Work Order: 23F0343

Date Received: 6/2/2023

Field Sample #: 516008-FD-SD

Sampled: 5/31/2023 00:00

Sample ID: 23F0343-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.4		% Wt	1		SM 2540G	6/9/23	6/9/23 11:54	JLC

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Sample Extraction Data

Prep Method:% Solids **Analytical Method:**SM 2540G

Lab Number [Field ID]	Batch	Date
23F0343-10 [516008-SD-400]	B342378	06/06/23

Prep Method:% Solids **Analytical Method:**SM 2540G

Lab Number [Field ID]	Batch	Date
23F0343-12 [516008-SD-401]	B342616	06/08/23

Prep Method:% Solids **Analytical Method:**SM 2540G

Lab Number [Field ID]	Batch	Date
23F0343-14 [516008-SD-402]	B342823	06/09/23
23F0343-18 [516008-FD-SD]	B342823	06/09/23

Prep Method:SW-846 3546 **Analytical Method:**SW-846 8270E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
23F0343-10 [516008-SD-400]	B342520	30.0	1.00	06/07/23
23F0343-12 [516008-SD-401]	B342520	30.0	1.00	06/07/23

Prep Method:SW-846 3546 **Analytical Method:**SW-846 8270E

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
23F0343-14 [516008-SD-402]	B342790	30.0	1.00	06/09/23
23F0343-18 [516008-FD-SD]	B342790	30.0	1.00	06/09/23

Prep Method:SW-846 3510C **Analytical Method:**SW-846 8270E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F0343-01 [516008-MW-204S]	B342468	1040	1.00	06/06/23
23F0343-01RE1 [516008-MW-204S]	B342468	1040	1.00	06/06/23
23F0343-02 [516008-MW-106R]	B342468	1000	1.00	06/06/23
23F0343-02RE1 [516008-MW-106R]	B342468	1000	1.00	06/06/23
23F0343-03 [516008-MW-204D]	B342468	1030	1.00	06/06/23
23F0343-03RE1 [516008-MW-204D]	B342468	1030	1.00	06/06/23
23F0343-04 [516008-MW-205S]	B342468	990	1.00	06/06/23
23F0343-05 [516008-MW-104]	B342468	1030	1.00	06/06/23
23F0343-05RE1 [516008-MW-104]	B342468	1030	1.00	06/06/23
23F0343-06 [516008-MW-205D]	B342468	970	1.00	06/06/23
23F0343-06RE1 [516008-MW-205D]	B342468	970	1.00	06/06/23
23F0343-06RE2 [516008-MW-205D]	B342468	970	1.00	06/06/23

Prep Method:SW-846 3510C **Analytical Method:**SW-846 8270E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F0343-07 [516008-MW-108R]	B342496	1030	1.00	06/07/23
23F0343-08 [516008-MW-110R]	B342496	1040	1.00	06/07/23
23F0343-09 [516008-SW-400]	B342496	1040	1.00	06/07/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**Sample Extraction Data****Prep Method:**SW-846 3510C **Analytical Method:**SW-846 8270E

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
23F0343-11 [516008-SW-401]	B342496	1030	1.00	06/07/23
23F0343-13 [516008-SW-402]	B342496	1030	1.00	06/07/23
23F0343-15 [516008-SW-403]	B342496	1030	1.00	06/07/23
23F0343-16 [516008-FD-GW]	B342496	1030	1.00	06/07/23
23F0343-17 [516008-FD-SW]	B342496	1020	1.00	06/07/23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B342468 - SW-846 3510C
Blank (B342468-BLK1)

Prepared: 06/06/23 Analyzed: 06/09/23

Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
Naphthalene	ND	5.0	µg/L							
Phenanthrene	ND	5.0	µg/L							
Pyrene	ND	5.0	µg/L							
Surrogate: Nitrobenzene-d5	66.6		µg/L	100		66.6	30-130			
Surrogate: 2-Fluorobiphenyl	62.3		µg/L	100		62.3	30-130			
Surrogate: p-Terphenyl-d14	90.3		µg/L	100		90.3	30-130			

LCS (B342468-BS1)

Prepared: 06/06/23 Analyzed: 06/09/23

Acenaphthene	34.2	5.0	µg/L	50.0		68.4	40-140			
Acenaphthylene	37.7	5.0	µg/L	50.0		75.3	40-140			
Anthracene	37.8	5.0	µg/L	50.0		75.6	40-140			
Benzo(a)anthracene	36.7	5.0	µg/L	50.0		73.5	40-140			
Benzo(a)pyrene	36.2	5.0	µg/L	50.0		72.4	40-140			
Benzo(b)fluoranthene	39.0	5.0	µg/L	50.0		78.0	40-140			
Benzo(g,h,i)perylene	27.2	5.0	µg/L	50.0		54.5	40-140			
Benzo(k)fluoranthene	39.7	5.0	µg/L	50.0		79.5	40-140			
Chrysene	34.2	5.0	µg/L	50.0		68.4	40-140			
Dibenz(a,h)anthracene	26.8	5.0	µg/L	50.0		53.5	40-140			
Fluoranthene	37.3	5.0	µg/L	50.0		74.5	40-140			
Fluorene	35.1	5.0	µg/L	50.0		70.2	40-140			
Indeno(1,2,3-cd)pyrene	28.0	5.0	µg/L	50.0		56.0	40-140			
2-Methylnaphthalene	34.3	5.0	µg/L	50.0		68.7	40-140			
Naphthalene	32.8	5.0	µg/L	50.0		65.7	40-140			
Phenanthrene	37.4	5.0	µg/L	50.0		74.8	40-140			
Pyrene	37.9	5.0	µg/L	50.0		75.9	40-140			
Surrogate: Nitrobenzene-d5	76.0		µg/L	100		76.0	30-130			
Surrogate: 2-Fluorobiphenyl	80.8		µg/L	100		80.8	30-130			
Surrogate: p-Terphenyl-d14	86.0		µg/L	100		86.0	30-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B342468 - SW-846 3510C
LCS Dup (B342468-BSD1)

Prepared: 06/06/23 Analyzed: 06/09/23

Acenaphthene	31.1	5.0	µg/L	50.0		62.3	40-140	9.34	20	
Acenaphthylene	33.8	5.0	µg/L	50.0		67.5	40-140	10.9	20	
Anthracene	35.1	5.0	µg/L	50.0		70.2	40-140	7.35	20	
Benzo(a)anthracene	34.4	5.0	µg/L	50.0		68.8	40-140	6.64	20	
Benzo(a)pyrene	33.0	5.0	µg/L	50.0		66.0	40-140	9.34	20	
Benzo(b)fluoranthene	35.6	5.0	µg/L	50.0		71.3	40-140	9.01	20	
Benzo(g,h,i)perylene	25.5	5.0	µg/L	50.0		51.0	40-140	6.56	20	
Benzo(k)fluoranthene	35.9	5.0	µg/L	50.0		71.9	40-140	10.0	20	
Chrysene	32.1	5.0	µg/L	50.0		64.2	40-140	6.31	20	
Dibenz(a,h)anthracene	25.5	5.0	µg/L	50.0		51.0	40-140	4.90	20	
Fluoranthene	35.0	5.0	µg/L	50.0		70.0	40-140	6.28	20	
Fluorene	33.2	5.0	µg/L	50.0		66.3	40-140	5.71	20	
Indeno(1,2,3-cd)pyrene	25.8	5.0	µg/L	50.0		51.6	40-140	8.11	50	‡
2-Methylnaphthalene	30.6	5.0	µg/L	50.0		61.2	40-140	11.5	20	
Naphthalene	30.1	5.0	µg/L	50.0		60.3	40-140	8.54	20	
Phenanthrene	34.2	5.0	µg/L	50.0		68.4	40-140	8.96	20	
Pyrene	36.2	5.0	µg/L	50.0		72.5	40-140	4.58	20	
Surrogate: Nitrobenzene-d5	67.9		µg/L	100		67.9	30-130			
Surrogate: 2-Fluorobiphenyl	70.0		µg/L	100		70.0	30-130			
Surrogate: p-Terphenyl-d14	79.3		µg/L	100		79.3	30-130			

Matrix Spike (B342468-MS1)
Source: 23F0343-03

Prepared: 06/06/23 Analyzed: 06/09/23

Acenaphthene	42.0	4.9	µg/L	48.5	8.78	68.4	40-140			
Acenaphthylene	77.7	4.9	µg/L	48.5	38.4	81.0	40-140			
Anthracene	37.9	4.9	µg/L	48.5	2.19	73.5	40-140			
Benzo(a)anthracene	34.8	4.9	µg/L	48.5	ND	71.6	40-140			
Benzo(a)pyrene	34.4	4.9	µg/L	48.5	ND	70.9	40-140			
Benzo(b)fluoranthene	36.7	4.9	µg/L	48.5	ND	75.6	40-140			
Benzo(g,h,i)perylene	25.7	4.9	µg/L	48.5	ND	53.0	40-140			
Benzo(k)fluoranthene	36.6	4.9	µg/L	48.5	ND	75.5	40-140			
Chrysene	32.5	4.9	µg/L	48.5	ND	66.9	40-140			
Dibenz(a,h)anthracene	26.3	4.9	µg/L	48.5	ND	54.2	40-140			
Fluoranthene	36.0	4.9	µg/L	48.5	0.883	72.2	40-140			
Fluorene	47.3	4.9	µg/L	48.5	13.1	70.4	40-140			
Indeno(1,2,3-cd)pyrene	26.5	4.9	µg/L	48.5	ND	54.7	40-140			
2-Methylnaphthalene	45.5	4.9	µg/L	48.5	13.0	67.0	40-140			
Naphthalene	240	4.9	µg/L	48.5	181	122	40-140			
Phenanthrene	45.5	4.9	µg/L	48.5	9.79	73.6	40-140			
Pyrene	36.5	4.9	µg/L	48.5	0.903	73.4	40-140			
Surrogate: Nitrobenzene-d5	70.3		µg/L	97.1		72.4	30-130			
Surrogate: 2-Fluorobiphenyl	74.6		µg/L	97.1		76.8	30-130			
Surrogate: p-Terphenyl-d14	70.1		µg/L	97.1		72.2	30-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B342468 - SW-846 3510C
Matrix Spike Dup (B342468-MSD1)
Source: 23F0343-03

Prepared: 06/06/23 Analyzed: 06/09/23

Acenaphthene	40.0	4.9	µg/L	48.5	8.78	64.3	40-140	4.86	30	
Acenaphthylene	73.9	4.9	µg/L	48.5	38.4	73.2	40-140	5.01	30	
Anthracene	35.8	4.9	µg/L	48.5	2.19	69.2	40-140	5.67	30	
Benzo(a)anthracene	32.8	4.9	µg/L	48.5	ND	67.5	40-140	5.92	30	
Benzo(a)pyrene	32.1	4.9	µg/L	48.5	ND	66.1	40-140	7.01	30	
Benzo(b)fluoranthene	34.5	4.9	µg/L	48.5	ND	71.1	40-140	6.19	30	
Benzo(g,h,i)perylene	25.1	4.9	µg/L	48.5	ND	51.8	40-140	2.33	30	
Benzo(k)fluoranthene	34.6	4.9	µg/L	48.5	ND	71.3	40-140	5.70	30	
Chrysene	31.2	4.9	µg/L	48.5	ND	64.2	40-140	4.09	30	
Dibenz(a,h)anthracene	25.0	4.9	µg/L	48.5	ND	51.5	40-140	5.19	30	
Fluoranthene	34.3	4.9	µg/L	48.5	0.883	68.9	40-140	4.64	30	
Fluorene	45.4	4.9	µg/L	48.5	13.1	66.5	40-140	4.04	30	
Indeno(1,2,3-cd)pyrene	26.2	4.9	µg/L	48.5	ND	53.9	40-140	1.40	30	
2-Methylnaphthalene	44.7	4.9	µg/L	48.5	13.0	65.4	40-140	1.72	30	
Naphthalene	236	4.9	µg/L	48.5	181	112	40-140	1.97	30	
Phenanthrene	43.8	4.9	µg/L	48.5	9.79	70.2	40-140	3.69	30	
Pyrene	35.7	4.9	µg/L	48.5	0.903	71.6	40-140	2.42	30	
Surrogate: Nitrobenzene-d5	67.6		µg/L	97.1		69.6	30-130			
Surrogate: 2-Fluorobiphenyl	71.3		µg/L	97.1		73.4	30-130			
Surrogate: p-Terphenyl-d14	69.5		µg/L	97.1		71.6	30-130			

Batch B342496 - SW-846 3510C
Blank (B342496-BLK1)

Prepared: 06/07/23 Analyzed: 06/10/23

Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							
Benzo(k)fluoranthene	ND	5.0	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
Naphthalene	ND	5.0	µg/L							
Phenanthrene	ND	5.0	µg/L							
Pyrene	ND	5.0	µg/L							
Surrogate: Nitrobenzene-d5	71.7		µg/L	100		71.7	30-130			
Surrogate: 2-Fluorobiphenyl	65.9		µg/L	100		65.9	30-130			
Surrogate: p-Terphenyl-d14	85.2		µg/L	100		85.2	30-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B342496 - SW-846 3510C
LCS (B342496-BS1)

Prepared: 06/07/23 Analyzed: 06/10/23

Acenaphthene	33.2	5.0	µg/L	50.0		66.5	40-140			
Acenaphthylene	35.9	5.0	µg/L	50.0		71.9	40-140			
Anthracene	37.1	5.0	µg/L	50.0		74.3	40-140			
Benzo(a)anthracene	35.6	5.0	µg/L	50.0		71.2	40-140			
Benzo(a)pyrene	34.2	5.0	µg/L	50.0		68.4	40-140			
Benzo(b)fluoranthene	35.8	5.0	µg/L	50.0		71.7	40-140			
Benzo(g,h,i)perylene	35.1	5.0	µg/L	50.0		70.1	40-140			V-05
Benzo(k)fluoranthene	36.1	5.0	µg/L	50.0		72.3	40-140			
Chrysene	33.2	5.0	µg/L	50.0		66.4	40-140			
Dibenz(a,h)anthracene	34.1	5.0	µg/L	50.0		68.2	40-140			V-05
Fluoranthene	36.4	5.0	µg/L	50.0		72.8	40-140			
Fluorene	35.5	5.0	µg/L	50.0		71.0	40-140			
Indeno(1,2,3-cd)pyrene	34.7	5.0	µg/L	50.0		69.5	40-140			V-05
2-Methylnaphthalene	30.7	5.0	µg/L	50.0		61.4	40-140			
Naphthalene	29.8	5.0	µg/L	50.0		59.5	40-140			
Phenanthrene	36.6	5.0	µg/L	50.0		73.3	40-140			
Pyrene	38.2	5.0	µg/L	50.0		76.4	40-140			
Surrogate: Nitrobenzene-d5	77.3		µg/L	100		77.3	30-130			
Surrogate: 2-Fluorobiphenyl	77.0		µg/L	100		77.0	30-130			
Surrogate: p-Terphenyl-d14	83.4		µg/L	100		83.4	30-130			

LCS Dup (B342496-BS1)

Prepared: 06/07/23 Analyzed: 06/10/23

Acenaphthene	31.3	5.0	µg/L	50.0		62.5	40-140	6.14	20	
Acenaphthylene	33.6	5.0	µg/L	50.0		67.1	40-140	6.85	20	
Anthracene	34.3	5.0	µg/L	50.0		68.6	40-140	7.98	20	
Benzo(a)anthracene	33.3	5.0	µg/L	50.0		66.6	40-140	6.67	20	
Benzo(a)pyrene	31.8	5.0	µg/L	50.0		63.6	40-140	7.33	20	
Benzo(b)fluoranthene	33.0	5.0	µg/L	50.0		66.0	40-140	8.22	20	
Benzo(g,h,i)perylene	33.3	5.0	µg/L	50.0		66.7	40-140	5.03	20	
Benzo(k)fluoranthene	33.7	5.0	µg/L	50.0		67.3	40-140	7.05	20	
Chrysene	31.7	5.0	µg/L	50.0		63.3	40-140	4.69	20	
Dibenz(a,h)anthracene	32.0	5.0	µg/L	50.0		64.0	40-140	6.29	20	
Fluoranthene	34.4	5.0	µg/L	50.0		68.7	40-140	5.79	20	
Fluorene	33.5	5.0	µg/L	50.0		66.9	40-140	5.94	20	
Indeno(1,2,3-cd)pyrene	32.8	5.0	µg/L	50.0		65.6	40-140	5.75	50	‡
2-Methylnaphthalene	29.7	5.0	µg/L	50.0		59.4	40-140	3.38	20	
Naphthalene	28.6	5.0	µg/L	50.0		57.1	40-140	4.12	20	
Phenanthrene	34.4	5.0	µg/L	50.0		68.8	40-140	6.30	20	
Pyrene	36.0	5.0	µg/L	50.0		72.0	40-140	5.88	20	
Surrogate: Nitrobenzene-d5	73.1		µg/L	100		73.1	30-130			
Surrogate: 2-Fluorobiphenyl	70.9		µg/L	100		70.9	30-130			
Surrogate: p-Terphenyl-d14	75.6		µg/L	100		75.6	30-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B342496 - SW-846 3510C										
Matrix Spike (B342496-MS1)	Source: 23F0343-13			Prepared: 06/07/23 Analyzed: 06/13/23						
Acenaphthene	24.4	5.0	µg/L	50.0	ND	48.9	40-140			
Acenaphthylene	28.0	5.0	µg/L	50.0	ND	56.0	40-140			
Anthracene	34.5	5.0	µg/L	50.0	ND	69.0	40-140			
Benzo(a)anthracene	34.9	5.0	µg/L	50.0	ND	69.8	40-140			
Benzo(a)pyrene	33.9	5.0	µg/L	50.0	ND	67.9	40-140			
Benzo(b)fluoranthene	35.2	5.0	µg/L	50.0	ND	70.5	40-140			
Benzo(g,h,i)perylene	30.6	5.0	µg/L	50.0	ND	61.1	40-140			V-05
Benzo(k)fluoranthene	35.9	5.0	µg/L	50.0	ND	71.8	40-140			
Chrysene	32.5	5.0	µg/L	50.0	ND	65.0	40-140			
Dibenz(a,h)anthracene	30.8	5.0	µg/L	50.0	ND	61.6	40-140			V-05
Fluoranthene	36.1	5.0	µg/L	50.0	ND	72.2	40-140			
Fluorene	31.4	5.0	µg/L	50.0	ND	62.7	40-140			
Indeno(1,2,3-cd)pyrene	31.3	5.0	µg/L	50.0	ND	62.7	40-140			V-05
2-Methylnaphthalene	18.4	5.0	µg/L	50.0	ND	36.7	* 40-140			MS-22
Naphthalene	18.9	5.0	µg/L	50.0	ND	37.8	* 40-140			MS-22
Phenanthrene	34.6	5.0	µg/L	50.0	ND	69.2	40-140			
Pyrene	37.1	5.0	µg/L	50.0	ND	74.1	40-140			
Surrogate: Nitrobenzene-d5	69.0		µg/L	100		69.0	30-130			
Surrogate: 2-Fluorobiphenyl	57.5		µg/L	100		57.5	30-130			
Surrogate: p-Terphenyl-d14	78.2		µg/L	100		78.2	30-130			
Matrix Spike Dup (B342496-MSD1)	Source: 23F0343-13			Prepared: 06/07/23 Analyzed: 06/13/23						
Acenaphthene	28.3	5.0	µg/L	50.0	ND	56.5	40-140	14.5	30	
Acenaphthylene	31.7	5.0	µg/L	50.0	ND	63.5	40-140	12.4	30	
Anthracene	34.2	5.0	µg/L	50.0	ND	68.4	40-140	0.815	30	
Benzo(a)anthracene	34.1	5.0	µg/L	50.0	ND	68.1	40-140	2.38	30	
Benzo(a)pyrene	33.1	5.0	µg/L	50.0	ND	66.1	40-140	2.60	30	
Benzo(b)fluoranthene	34.1	5.0	µg/L	50.0	ND	68.3	40-140	3.20	30	
Benzo(g,h,i)perylene	30.0	5.0	µg/L	50.0	ND	60.1	40-140	1.72	30	V-05
Benzo(k)fluoranthene	35.1	5.0	µg/L	50.0	ND	70.1	40-140	2.40	30	
Chrysene	31.8	5.0	µg/L	50.0	ND	63.6	40-140	2.18	30	
Dibenz(a,h)anthracene	29.6	5.0	µg/L	50.0	ND	59.1	40-140	4.07	30	V-05
Fluoranthene	35.6	5.0	µg/L	50.0	ND	71.1	40-140	1.48	30	
Fluorene	32.2	5.0	µg/L	50.0	ND	64.5	40-140	2.74	30	
Indeno(1,2,3-cd)pyrene	30.7	5.0	µg/L	50.0	ND	61.3	40-140	2.13	30	V-05
2-Methylnaphthalene	23.2	5.0	µg/L	50.0	ND	46.4	40-140	23.4	30	
Naphthalene	22.7	5.0	µg/L	50.0	ND	45.5	40-140	18.5	30	
Phenanthrene	34.3	5.0	µg/L	50.0	ND	68.6	40-140	0.784	30	
Pyrene	36.4	5.0	µg/L	50.0	ND	72.8	40-140	1.88	30	
Surrogate: Nitrobenzene-d5	68.1		µg/L	100		68.1	30-130			
Surrogate: 2-Fluorobiphenyl	62.9		µg/L	100		62.9	30-130			
Surrogate: p-Terphenyl-d14	78.0		µg/L	100		78.0	30-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B342520 - SW-846 3546
Blank (B342520-BLK1)

Prepared: 06/07/23 Analyzed: 06/09/23

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.71		mg/Kg wet	3.33		81.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.60		mg/Kg wet	3.33		78.0	30-130			
Surrogate: p-Terphenyl-d14	2.91		mg/Kg wet	3.33		87.4	30-130			

LCS (B342520-BS1)

Prepared: 06/07/23 Analyzed: 06/09/23

Acenaphthene	1.22	0.17	mg/Kg wet	1.67		72.9	40-140			
Acenaphthylene	1.35	0.17	mg/Kg wet	1.67		80.7	40-140			
Anthracene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140			
Benzo(a)anthracene	1.22	0.17	mg/Kg wet	1.67		72.9	40-140			
Benzo(a)pyrene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140			
Benzo(b)fluoranthene	1.28	0.17	mg/Kg wet	1.67		76.7	40-140			
Benzo(g,h,i)perylene	1.32	0.17	mg/Kg wet	1.67		79.4	40-140			
Benzo(k)fluoranthene	1.29	0.17	mg/Kg wet	1.67		77.3	40-140			
Chrysene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140			
Dibenz(a,h)anthracene	1.33	0.17	mg/Kg wet	1.67		80.1	40-140			
Fluoranthene	1.21	0.17	mg/Kg wet	1.67		72.5	40-140			
Fluorene	1.31	0.17	mg/Kg wet	1.67		78.9	40-140			
Indeno(1,2,3-cd)pyrene	1.32	0.17	mg/Kg wet	1.67		79.1	40-140			
2-Methylnaphthalene	1.07	0.17	mg/Kg wet	1.67		64.2	40-140			
Naphthalene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140			
Phenanthrene	1.25	0.17	mg/Kg wet	1.67		74.8	40-140			
Pyrene	1.22	0.17	mg/Kg wet	1.67		73.1	40-140			
Surrogate: Nitrobenzene-d5	2.76		mg/Kg wet	3.33		82.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.69		mg/Kg wet	3.33		80.7	30-130			
Surrogate: p-Terphenyl-d14	2.70		mg/Kg wet	3.33		80.9	30-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B342520 - SW-846 3546
LCS Dup (B342520-BSD1)

Prepared: 06/07/23 Analyzed: 06/09/23

Acenaphthene	1.21	0.17	mg/Kg wet	1.67		72.5	40-140	0.633	30	
Acenaphthylene	1.30	0.17	mg/Kg wet	1.67		77.7	40-140	3.84	30	
Anthracene	1.29	0.17	mg/Kg wet	1.67		77.3	40-140	2.97	30	
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.3	40-140	1.82	30	
Benzo(a)pyrene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140	1.43	30	
Benzo(b)fluoranthene	1.36	0.17	mg/Kg wet	1.67		81.5	40-140	6.02	30	
Benzo(g,h,i)perylene	1.35	0.17	mg/Kg wet	1.67		81.3	40-140	2.29	30	
Benzo(k)fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140	1.80	30	
Chrysene	1.22	0.17	mg/Kg wet	1.67		73.1	40-140	1.66	30	
Dibenz(a,h)anthracene	1.32	0.17	mg/Kg wet	1.67		79.2	40-140	1.08	30	
Fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.1	40-140	3.34	30	
Fluorene	1.32	0.17	mg/Kg wet	1.67		79.2	40-140	0.455	30	
Indeno(1,2,3-cd)pyrene	1.35	0.17	mg/Kg wet	1.67		80.9	40-140	2.22	30	
2-Methylnaphthalene	1.09	0.17	mg/Kg wet	1.67		65.2	40-140	1.55	30	
Naphthalene	1.22	0.17	mg/Kg wet	1.67		73.2	40-140	1.10	30	
Phenanthrene	1.28	0.17	mg/Kg wet	1.67		76.9	40-140	2.74	30	
Pyrene	1.29	0.17	mg/Kg wet	1.67		77.7	40-140	6.05	30	
Surrogate: Nitrobenzene-d5	2.83		mg/Kg wet	3.33		85.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.61		mg/Kg wet	3.33		78.3	30-130			
Surrogate: p-Terphenyl-d14	2.81		mg/Kg wet	3.33		84.2	30-130			

Matrix Spike (B342520-MS1)
Source: 23F0343-10

Prepared: 06/07/23 Analyzed: 06/10/23

Acenaphthene	1.42	0.22	mg/Kg dry	2.11	ND	67.1	40-140			
Acenaphthylene	1.49	0.22	mg/Kg dry	2.11	ND	70.8	40-140			
Anthracene	1.48	0.22	mg/Kg dry	2.11	ND	70.3	40-140			
Benzo(a)anthracene	1.48	0.22	mg/Kg dry	2.11	ND	70.3	40-140			
Benzo(a)pyrene	1.40	0.22	mg/Kg dry	2.11	ND	66.2	40-140			
Benzo(b)fluoranthene	1.67	0.22	mg/Kg dry	2.11	ND	79.0	40-140			
Benzo(g,h,i)perylene	1.55	0.22	mg/Kg dry	2.11	ND	73.3	40-140			
Benzo(k)fluoranthene	1.63	0.22	mg/Kg dry	2.11	ND	77.2	40-140			
Chrysene	1.40	0.22	mg/Kg dry	2.11	ND	66.3	40-140			
Dibenz(a,h)anthracene	1.46	0.22	mg/Kg dry	2.11	ND	69.3	40-140			
Fluoranthene	1.48	0.22	mg/Kg dry	2.11	ND	69.9	40-140			
Fluorene	1.51	0.22	mg/Kg dry	2.11	ND	71.3	40-140			
Indeno(1,2,3-cd)pyrene	1.51	0.22	mg/Kg dry	2.11	ND	71.4	40-140			
2-Methylnaphthalene	1.29	0.22	mg/Kg dry	2.11	ND	60.9	40-140			
Naphthalene	1.34	0.22	mg/Kg dry	2.11	ND	63.6	40-140			
Phenanthrene	1.51	0.22	mg/Kg dry	2.11	ND	71.4	40-140			
Pyrene	1.56	0.22	mg/Kg dry	2.11	ND	74.0	40-140			
Surrogate: Nitrobenzene-d5	2.90		mg/Kg dry	4.22		68.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.90		mg/Kg dry	4.22		68.7	30-130			
Surrogate: p-Terphenyl-d14	3.38		mg/Kg dry	4.22		80.1	30-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B342520 - SW-846 3546
Matrix Spike Dup (B342520-MSD1)
Source: 23F0343-10

Prepared: 06/07/23 Analyzed: 06/10/23

Acenaphthene	1.22	0.22	mg/Kg dry	2.11	ND	57.9	40-140	14.8	30	
Acenaphthylene	1.33	0.22	mg/Kg dry	2.11	ND	62.9	40-140	11.8	30	
Anthracene	1.30	0.22	mg/Kg dry	2.11	ND	61.7	40-140	13.1	30	
Benzo(a)anthracene	1.32	0.22	mg/Kg dry	2.11	ND	62.7	40-140	11.5	30	
Benzo(a)pyrene	1.28	0.22	mg/Kg dry	2.11	ND	60.8	40-140	8.41	30	
Benzo(b)fluoranthene	1.55	0.22	mg/Kg dry	2.11	ND	73.3	40-140	7.48	30	
Benzo(g,h,i)perylene	1.45	0.22	mg/Kg dry	2.11	ND	68.5	40-140	6.74	30	
Benzo(k)fluoranthene	1.49	0.22	mg/Kg dry	2.11	ND	70.7	40-140	8.68	30	
Chrysene	1.23	0.22	mg/Kg dry	2.11	ND	58.1	40-140	13.1	30	
Dibenz(a,h)anthracene	1.33	0.22	mg/Kg dry	2.11	ND	63.0	40-140	9.40	30	
Fluoranthene	1.30	0.22	mg/Kg dry	2.11	ND	61.4	40-140	12.9	30	
Fluorene	1.34	0.22	mg/Kg dry	2.11	ND	63.3	40-140	11.9	30	
Indeno(1,2,3-cd)pyrene	1.36	0.22	mg/Kg dry	2.11	ND	64.6	40-140	9.94	30	
2-Methylnaphthalene	1.17	0.22	mg/Kg dry	2.11	ND	55.3	40-140	9.71	30	
Naphthalene	1.25	0.22	mg/Kg dry	2.11	ND	59.2	40-140	7.20	30	
Phenanthrene	1.34	0.22	mg/Kg dry	2.11	ND	63.4	40-140	11.9	30	
Pyrene	1.49	0.22	mg/Kg dry	2.11	ND	70.4	40-140	4.93	30	
Surrogate: Nitrobenzene-d5	2.76		mg/Kg dry	4.22		65.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.71		mg/Kg dry	4.22		64.1	30-130			
Surrogate: p-Terphenyl-d14	3.06		mg/Kg dry	4.22		72.4	30-130			

Batch B342790 - SW-846 3546
Blank (B342790-BLK1)

Prepared: 06/09/23 Analyzed: 06/14/23

Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	2.80		mg/Kg wet	3.33		84.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.61		mg/Kg wet	3.33		78.2	30-130			
Surrogate: p-Terphenyl-d14	2.78		mg/Kg wet	3.33		83.3	30-130			

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QUALITY CONTROL
Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B342790 - SW-846 3546
LCS (B342790-BS1)

Prepared: 06/09/23 Analyzed: 06/14/23

Acenaphthene	1.27	0.17	mg/Kg wet	1.67		76.3	40-140			
Acenaphthylene	1.37	0.17	mg/Kg wet	1.67		82.3	40-140			
Anthracene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140			
Benzo(a)anthracene	1.22	0.17	mg/Kg wet	1.67		72.9	40-140			
Benzo(a)pyrene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140			
Benzo(b)fluoranthene	1.34	0.17	mg/Kg wet	1.67		80.2	40-140			
Benzo(g,h,i)perylene	1.32	0.17	mg/Kg wet	1.67		79.3	40-140			
Benzo(k)fluoranthene	1.33	0.17	mg/Kg wet	1.67		80.1	40-140			
Chrysene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140			
Dibenz(a,h)anthracene	1.30	0.17	mg/Kg wet	1.67		78.3	40-140			
Fluoranthene	1.18	0.17	mg/Kg wet	1.67		70.9	40-140			
Fluorene	1.36	0.17	mg/Kg wet	1.67		81.4	40-140			
Indeno(1,2,3-cd)pyrene	1.35	0.17	mg/Kg wet	1.67		80.9	40-140			
2-Methylnaphthalene	1.17	0.17	mg/Kg wet	1.67		70.3	40-140			
Naphthalene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140			
Phenanthrene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140			
Pyrene	1.24	0.17	mg/Kg wet	1.67		74.3	40-140			
Surrogate: Nitrobenzene-d5	2.84		mg/Kg wet	3.33		85.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.90		mg/Kg wet	3.33		86.9	30-130			
Surrogate: p-Terphenyl-d14	2.78		mg/Kg wet	3.33		83.5	30-130			

LCS Dup (B342790-BS1)

Prepared: 06/09/23 Analyzed: 06/14/23

Acenaphthene	1.26	0.17	mg/Kg wet	1.67		75.3	40-140	1.32	30	
Acenaphthylene	1.34	0.17	mg/Kg wet	1.67		80.2	40-140	2.56	30	
Anthracene	1.38	0.17	mg/Kg wet	1.67		82.6	40-140	8.80	30	
Benzo(a)anthracene	1.26	0.17	mg/Kg wet	1.67		75.4	40-140	3.29	30	
Benzo(a)pyrene	1.23	0.17	mg/Kg wet	1.67		73.8	40-140	3.81	30	
Benzo(b)fluoranthene	1.38	0.17	mg/Kg wet	1.67		83.1	40-140	3.60	30	
Benzo(g,h,i)perylene	1.38	0.17	mg/Kg wet	1.67		82.8	40-140	4.32	30	
Benzo(k)fluoranthene	1.38	0.17	mg/Kg wet	1.67		83.1	40-140	3.70	30	
Chrysene	1.23	0.17	mg/Kg wet	1.67		73.9	40-140	4.11	30	
Dibenz(a,h)anthracene	1.36	0.17	mg/Kg wet	1.67		81.9	40-140	4.55	30	
Fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.1	40-140	7.02	30	
Fluorene	1.35	0.17	mg/Kg wet	1.67		80.9	40-140	0.591	30	
Indeno(1,2,3-cd)pyrene	1.35	0.17	mg/Kg wet	1.67		81.3	40-140	0.444	30	
2-Methylnaphthalene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	3.16	30	
Naphthalene	1.29	0.17	mg/Kg wet	1.67		77.6	40-140	2.45	30	
Phenanthrene	1.34	0.17	mg/Kg wet	1.67		80.2	40-140	5.88	30	
Pyrene	1.23	0.17	mg/Kg wet	1.67		74.0	40-140	0.351	30	
Surrogate: Nitrobenzene-d5	2.87		mg/Kg wet	3.33		86.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.83		mg/Kg wet	3.33		85.0	30-130			
Surrogate: p-Terphenyl-d14	2.80		mg/Kg wet	3.33		84.0	30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332**FLAG/QUALIFIER SUMMARY**

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
V-05	Continuing calibration verification (CCV) did not meet method specifications and was biased on the low side for this compound.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270E in Soil</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
<i>SW-846 8270E in Water</i>	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Department of Public Health	PH-0821	12/31/2024
NY	New York State Department of Health	10899 NELAP	04/1/2024
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2024
NC	North Carolina Div. of Water Quality	652	12/31/2023
ME	State of Maine	MA00100	06/9/2025
VA	Commonwealth of Virginia	460217	12/14/2023

1800 Elm Street SE
Minneapolis, MN 55414

CHAIN OF CUSTODY RECORD (New York)

Contact: <https://www.pacelabs.com/contact-us/contact-environmental-sciences/>

Company Name: EA Engineering
Address: 269 W Jefferson St. Syracuse, NY 13202
Phone: (315) 481-2567 (sample)
Project Name: Saranac Lake Gas Co.
Project Location: Saranac Lake, NY
Project Number: 516008 (DEQ 11602534002 (EA))
Project Manager: Doshua Oliver EA/Kyle Stedley Pace
Pace Analytical Quote Number/Number: 145596
Invoice Recipient: Chilout number

Sampled By: Katie Cassidy

Pace Analytical Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	516008-MW-2045	5/30/23	1306		X	GW	
2	516008-MW-106R	5/30/23	1327		X	GW	
3	516008-MW-204D	5/30/23	1411		X	GW	
4	516008-MW-205S	5/30/23	1535		X	GW	
5	516008-MW-104	5/30/23	1610		X	GW	
6	516008-MW-205D	5/30/23	1635		X	GW	
7	516008-MW-204D-MUS	5/30/23	1411		X	GW	
8	516008-MW-108R	5/31/23	0830		X	GW	
9	516008-MW-110R	5/31/23	1001		X	GW	

Comments: * full P44 list requested via method 8270, not SIM.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) <u>Katie Cassidy</u>	Date/Time: <u>6/1/23 10:55</u>	Program & Regulatory Information ☐ AWQ STDS ☐ NYC Sewer Discharge ☐ Part 360 GW (Landfill) ☐ NY Restricted Use ☐ NY Unrestricted Use ☐ NY Part 375	Enhanced Data Package ☒ NYSDEC EQLIS EDD ☐ EQLIS (Standard) EDD ☐ NY Regulatory EDD ☐ NY Regs Hits-Only EDD	Other ☐ Chromatogram ☐ AIHA-LAP, LLC
Received by: (signature) <u>[Signature]</u>	Date/Time: <u>6/1 10:55</u>	Project Entity ☐ Government ☐ Federal ☐ City	NY TOGS ☐ NY CP-51	
Relinquished by: (signature) <u>[Signature]</u>	Date/Time: <u>6/2/23 0630</u>	Other ☐ MELAC and AIHA-LAP, LLC Accredited		
Relinquished by: (signature) <u>[Signature]</u>	Date/Time: <u>6/2/23</u>			
Relinquished by: (signature) <u>[Signature]</u>	Date/Time: <u>6-2-23 0435</u>			

Contact: <https://www.pacelabs.com/contact-us/contact-environmental-sciences/>

Company Name:

Address:

Phone:

Project Name:

Project Location:

Project Number:

Project Manager:

Pace Analytical Quote Name/Number

Invoice Recipient:

Sampled By:

See Page 1

Requested Turnaround Time
7-Day ☐ 10-Day ☒
Due Date:

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐
Data Delivery
Format: PDF ☒ EXCEL ☒
Other: CAT-B
CLP Like Data Pkg Required: ☐
Email To: jolive@pacelabs.com
Fax To #: 612-607-6344

Pace Analytical Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
13	516008-SW-402-MSD	5/31/23	1241		X	0*	
16	516008-FD-GW	5/31/23			X	GW	
17	516008-FD-SW	5/31/23			X	0*	
18	516008-FD-SD	5/31/23		X		S	

Comments:

*0" matrix = surface water (SW)
* full PATH 15+ requested via method 8270, not SIM

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)
[Signature]
Date/Time: 6/1/23 10:55
Received by: (signature)
[Signature]
Date/Time: 6/1/23 10:55
Relinquished by: (signature)
[Signature]
Date/Time: 6/1/23 10:55
Received by: (signature)
[Signature]
Date/Time: 6/1/23 10:55
Relinquished by: (signature)
[Signature]
Date/Time: 6/1/23 10:55
Received by: (signature)
[Signature]
Date/Time: 6/1/23 10:55

Program & Regulatory Information
☐ AWQ STDs
☐ NYC Sewer Discharge
☐ Part 360 GW (Landfill)
☐ NY Restricted Use
☐ NY Unrestricted Use
☐ NY Part 375
☐ NY TOGS
☐ NY CP-51



Enhanced Data Package
☐ NYSDEC EDD
☒ EQUS (Standard) EDD
☐ NY Regulatory EDD
☐ NY Regs Hits-Only EDD

Project Entity
☐ Government
☐ Federal
☐ City
☐ Municipality
☐ 21 J
☐ Brownfield
☐ MWRA
☐ School
☐ MBTA
☐ WRTA
☐ Chromatogram
☐ AIHA-LAP, LLC

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.pacelabs.com

ENV-FRM-ELON-0001 V05__Sample Receiving Checklist

Log In Back-Sheet

Login Sample Receipt Checklist - (Rejection Criteria Listing
- Using Acceptance Policy) Any False statement will be
brought to the attention of the Client - True or False



Client EA Engineering
Project Saranac Lake Gas Co.

MCP/RCP Required N/A

Deliverable Package Requirement NYSDEC EQULS

Location Saranac Lake, NY

PWSID# (When Applicable) N/A

Arrival Method:

Courier ☒ Fed Ex ☐ Walk In ☐ Other ☐

Received By / Date / Time AM 6/2/23 0935

Back Sheet By / Date / Time DWN 6/2/23 1800

Temperature Method GUN # 5

Temp ☒ < 6° C Actual Temperature 3.2, 2.0, 2.2, 3.6

Rush Samples: Yes / ☒ No Notify

Short Hold: Yes / ☒ No Notify

Notes regarding Samples/COC outside of SOP:

	True	False
Received on Ice	☒	☐
Received in Cooler	☒	☐
Custody Seal: DATE TIME	☐	☒
COC Relinquished	☒	☐
COC/Samples Labels Agree	☒	☐
All Samples in Good Condition	☒	☐
Samples Received within Holding Time	☒	☐
Is there enough Volume	☒	☐
Proper Media/Container Used	☒	☐
Splitting Samples Required	☐	☒
MS/MSD	☒	☐
Trip Blanks	☐	☒
Lab to Filters	☐	☒
COC Legible	☒	☐

COC Included: (Check all included)

Client ☒ Analysis ☒ Sampler Name ☒
Project ☒ IDs ☒ Collection Date/Time ☒

All Samples Proper pH: N/A ☐ ☐

Additional Container Notes

Sample	Soils Jars				Ambers				Plastics						VOA Vials						Other / Fill in																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	(Circle Amb/Clear)				1 Liter		250mL		100mL	1 Liter		500mL	250mL				VOA Vials						Other / Fill in																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
	16oz Amb/Clear	8oz Amb/Clear	4oz Amb/Clear	2oz Amb/Clear	Unpreserved	HCL	Sulfuric	Sulfuric	Phosphoric	HCl	Unpreserved	Unpreserved	Sulfuric	Unpreserved	Trizma	Sulfuric	Nitric	NaOH	NaOH/Zinc	Unpreserved	HCl	MeOH	D.I. Water	BiSulfate	Col/Bact	Other / Fill in																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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Appendix D

Data Validation Report



DATA VALIDATION REPORT

NYSDEC Saranac Lake Gas Company

SDG: 23F0343

Chemical Analyses Performed by:

**Con-Test
Pace Analytical Laboratory**

Prepared by

ENVIRONMENTAL DATA SERVICES, LTD.

Prepared for

EA Engineering, Science and Technology, Inc.

September 26, 2023



DATA USABILITY SUMMARY REPORT FOR 8270

PROJECT: NYSDEC Saranac Lake Gas Company

CLIENT: EA Engineering, Science, and Technology, Inc.

LABORATORY: Con-Test, A Pace Analytical Laboratory

SAMPLE DELIVERY GROUPS: 23F0343

SAMPLE DATES: 05/30/2023, 05/31/2023

The above sample delivery group (SDG) consist of the following samples:

Client Sample ID	Laboratory Sample ID
516008-MW-204S	23F0343-01
516008-MW-106R	23F0343-02
516008-MW-204D	23F0343-03
516008-MW-205S	23F0343-04
516008-MW-104	23F0343-05
516008-MW-205D	23F0343-06
516008-MW-108R	23F0343-07
516008-MW-110R	23F0343-08
516008-SW-400	23F0343-09
516008-SD-400	23F0343-10
516008-SW-401	23F0343-11
516008-SD-401	23F0343-12
516008-SW-402	23F0343-13
516008-SD-402	23F0343-14
516008-SW-403	23F0343-15
516008-FD-GW	23F0343-16
516008-FD-SW	23F0343-17
516008-FD-SD	23F0343-18

The samples described above were analyzed via USEPA SW-846 8270 to determine the concentrations of Polycyclic Aromatic Hydrocarbons (PAHs).

Project specific quality assurance (QA) objectives, as well as the USEPA Region II SOP, Validating Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry SW-846 Method 8270D, HW-22 Revision 5, December 2010, have been considered during validation of this data and its usability.

Table 1 provides a summary of major and minor data quality issues identified for this data set. All data are acceptable except those results which have been qualified with "R," rejected. Data validation qualifiers along with associated descriptions are provided in Table 2. All data qualification related to this group of samples is detailed on the attached sheets.

Per USEPA Region 2 Validation Guidance, "All data users should note two facts. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables even as a last resort. The second, no analyte concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error."

1. HOLDING TIME/SAMPLE HANDLING

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Proper sample handling and preservation also play a role in the chemical stability of analytes in the sample matrix. If samples are not collected and stored using proper containers and/or preservatives, data may not be valid.

The samples in this delivery group were received by the laboratory within the proper temperature range as specified in the validation guidance.

The samples in this delivery group were prepared and analyzed within the holding time specified in the validation guidelines.

2. BLANK CONTAMINATION

Quality assurance blanks include method, storage, trip, field, or rinse blanks. Blanks are prepared to identify any contamination, which may have been introduced into the samples during laboratory preparation and analysis or field activity. Method and storage blanks measure laboratory contamination. Trip blanks measure cross contamination during shipment. Field and rinse blanks measure cross contamination during field operations.

Method Blanks

No problems were found for this criterion.

Field Blanks

No field blanks were submitted in association with this SDG.

3. MASS SPECTROMETER TUNING

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances.

The tuning standard for semivolatiles is decafluorotriphenylphosphine (DFTPP).

All instrument tunes were fully compliant.

4. CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative results. The initial calibration curve demonstrates that the instrument is capable of giving acceptable performance at the beginning of an analytical sequence. The continuing calibration verifies that the instrument is continuing to provide satisfactory daily performance. Additionally, a continuing calibration is analyzed at the end of each 12-hour analytical sequence, denoted as a “closing” calibration verification and ascertains acceptable performance at the conclusion of the analytical sequence.

Response Factor

The relative response factor (RRF) measures the instrument's responses to specific chemical compounds. The response factors for the base neutral acid (BNA) target compound list (TCL) analytes must be ≥ 0.05 in both the initial and continuing calibrations. A value less than the respective criteria indicates serious detection and quantitation problems. If the mean RRF of the initial calibration or the continuing calibration RRF is < 0.05 for any analyte, those analytes detected in environmental samples will be qualified as estimated. All non-detects for those analytes will be rejected.

The RRF values in all initial and continuing calibration verifications (CCV) were found to be acceptable in all cases.

Note: No closing continuing calibration was performed.

Percent Relative Standard Deviation and Percent Deviation

Percent relative standard deviation (%RSD) is calculated from the initial calibration and is used to indicate stability of a specific compound over the calibration range. Percent deviation (%D) compares the response factor of the continuing calibration with the mean response factor of the initial calibration. Therefore, %D is a measure of the instrument's daily performance.

The following QC criteria have been applied for this project:

The %RSD of initial calibration must be $< 20\%$.

An RSD value outside the initial calibration limit indicates the potential for quantitation errors. For this reason, all positive and non-detected results are qualified as estimated. Severe performance failures (RSD $> 90\%$) requires rejection of non-detected results.

The %D for continuing calibration must be $< 20\%$.

A value outside these limits indicates the potential for detection and quantitation errors. For these reasons, all positive results are qualified as estimated "J," and non-detects are qualified with "UJ."

All initial calibration and continuing calibration %RSD and %D values were within defined quality control criteria with the following exceptions.

The observed %D for benzo(g,h,i)perylene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene were outside acceptance limits in the CCV associated with the samples listed below. The impacted analytes in the associated samples were all non-detect and have been qualified "UJ" on this basis.

516008-MW-110R	516008-SW-401	516008-SW-403	516008-FD-SW
516008-SW-400	516008-SW-402	516008-FD-GW	

Note: No closing continuing calibration was performed.

5. INTERNAL STANDARDS PERFORMANCE

Internal standard performance criteria are meant to ensure that the gas chromatograph/mass spectrometer (GC/MS) sensitivity and response are stable during every experimental run.

The internal standard area count must not vary by more than a factor of two from the associated continuing calibration standard. The retention time of the internal standard must not vary by more

than +/-30 seconds from the associated continuing calibration standard. The area count must be within -50% to 200% range of the associated standard. If area count is >200%, non-detected results are not qualified while positive results are qualified "J," estimated. When an observed area count is <50%, results are qualified "J" or "UJ" as appropriate; however, should area counts be <25%, all associated non-detects are qualified "R," rejected.

The reported sample analyses and associated method blank had internal standard areas and retention times within QC criteria in all cases.

6. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation and analyses to evaluate overall laboratory performance and efficiency of the analytical technique.

The reported sample analyses and method blank had observed surrogate recoveries within the limits established by the laboratory in all cases.

7. COMPOUND IDENTIFICATION

Semivolatile

The project target analyte compounds are identified on the GC/MS by using the analytes relative retention time (RRT) and ion spectra. For the results to be a positive hit, the sample peak must be within ± 0.06 RRT units of the standard compound and have ion spectra which has a ratio of the primary and secondary ion intensities within 20% of that in the standard compound. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

All identification criteria were met. Therefore, no analytes were qualified for compound identification.

8. MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The matrix spike and matrix spike duplicate (MS/MSD) are generated to determine the precision and accuracy of the analytical procedure in a given sample matrix.

Sample 516008-SD-400 was submitted for MS/MSD evaluation in association with this SDG. Upon evaluation al precision and accuracy indicators were favorable.

Sample 516008-MW-204D was submitted for MS/MSD evaluation in association with this SDG. Upon evaluation al precision and accuracy indicators were favorable.

Sample 516008-SW-402 was submitted for MS/MSD evaluation in association with this SDG. Upon evaluation al precision and accuracy indicators were favorable or did not require qualification of sample results.

9. LABORATORY CONTROL SAMPLE

The Laboratory Control Sample (LCS) is spiked with the same analytes at the same concentrations as the matrix spike. The LCS results are used to verify that the laboratory can perform the analysis in a clean matrix.

No problems were found for this criterion.

10. REPORTING

No dilutions, re-extractions, or other re-analyses were performed other than those required to bring target analytes within calibration range.

11. OTHER QUALITY CONTROL DATA OUT OF SPECIFICATION

No problems were found for this criterion.

12. FIELD DUPLICATE

Field duplicates are two (or more) field samples collected at the same time in the same location. Each of the samples represents the same population and is carried through all steps of the sampling and analytical procedures in an identical manner. Field duplicate results are used to assess precision of the total method, including sampling, analysis, and site heterogeneity.

Samples 516008-MW-108R and 516008-FD-GW were analyzed as a field duplicate pair in association with this SDG. Adequate field precision was demonstrated.

Samples 516008-SW-401 and 516008-FD-SW were analyzed as a field duplicate pair in association with this SDG. Adequate field precision was demonstrated.

Samples 516008-SD-401 and 516008-FD-SD were analyzed as a field duplicate pair in association with this SDG. Adequate field precision was demonstrated.

13. SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

Overall, the laboratory data generated met the project goals and quality control criteria, with the exceptions identified in this report and as summarized in Table 1.

Table 1
Review Elements Summary

	Were acceptance criteria met?		
	Yes	No	
1,4-Dioxane		Major	Minor
Holding Time/Sample Handling	x		
Method Blanks	x		
Field Blanks	NA		
Mass Spectrometer Tuning	x		
Calibration Response Factor	x		
Calibration Percent Relative Standard Deviation and Percent Difference			x
Internal Standards Performance	x		
Surrogates	x		
Compound Identification - Semivolatile	x		
Tentatively Identified Compounds - Semivolatile	NA		
Matrix Spike/Matrix Spike Duplicate	x		
Laboratory Control Sample	x		
Other Quality Control Data out of Linear Range	x		
Field Duplicate	x		

Major= Major data quality issue identified resulting in rejection of data.

Minor= Minor data quality issue identified resulting in the qualification of data. Data qualification should be used to inform the data users of data limitations.

NA = Not applicable

Table 2
Data Validation Qualifiers

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
UJ-	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise, and the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.

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