Request to Import Summary Sheet - ECSD (ISMP)				
Date Of Request	**Material**	**Amount Requested (yds^3)**	**Source**	**Date of Agency Approval**
11/30/2022	Sod	68,000 SF	Batavia Turf	12/2/2022
2/28/2023	Stone Dust	50	Steele Pit (Corning)	3/7/2023
9/7/2023	Clay Conditioner	50	Varos Mine	9/12/2023
9/7/2023	Clay/Sand Mix	400	Varos Mine	9/12/2023
9/7/2023	Mound Clay	50	Varos Mine	9/12/2023
9/25/2023	Sod	119,000 SF	Batavia Turf	9/27/2023
11/3/2023	Crushed Limestone	300	Windham Quarry	11/3/2023
3/29/2024	Top Dressing Sand	100	Poland S&G Mine	4/1/2024

Miranda Stelmach

From: Howe, Alexander <alexander.howe@wsp.com>
Sent: Friday, December 2, 2022 12:04 PM
To: Andrew Millspaugh; Schneider, Timothy A (DEC); Aron Krasnopoler; Amanda Castignetti; Bonsteel, Nicole M; Bogardus, Sara (HEALTH); Pratt, David (DEC); Aube, Rene P.; Glowark, Brandon; Krueger, Kevin D.; Whelan, Vincent; McCartney, W Scott; Surani, Shaun J (HEALTH)
Cc: Etter, Terry R.; Paul Brookner; Miranda Stelmach; Lawrence Endicott; Sutton, Scott; Kyle Cunningham; cyrs (cyrs@hunt-eas.com); grasmeyerl@hunt-eas.com; Mike Dunn; Mike Fulkerson; Jordyn Confer
Subject: RE: NYSDEC #c808022 - DER-10 Request to Import Batavia Sod

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Hello Andrew,

We have reviewed your request to import 68,000 sq/ft equating to 200 cubic yards of Batavia Turf from Batavia Turf, located on 6465 Transit Rd. Elba, NY 14058 and find it appropriate documentation to proceed.

Regards,

Alex

Alexander Howe, PG
Senior Geologist

M+ 1 207-776-8242

From: Andrew Millspaugh <Andrew.Millspaugh@sterlingenvironmental.com>
Sent: Wednesday, November 30, 2022 2:33 PM
To: Schneider, Timothy A (DEC) <timothy.schneider@dec.ny.gov>; Howe, Alexander <alexander.howe@woodplc.com>; akrasnopoler@geosyntec.com; Amanda Castignetti <Amanda.Castignetti@SterlingEnvironmental.com>; Bonsteel, Nicole M <nicole.bonsteel2@woodplc.com>; Bogardus, Sara (HEALTH) <Sara.Bogardus@health.ny.gov>; Pratt, David (DEC) <david.pratt@dec.ny.gov>; Aube, Rene P. <rene.aube@woodplc.com>; Glowark, Brandon <brandon.glowark@woodplc.com>; Krueger, Kevin D. <Kevin.Krueger@unisys.com>; Whelan, Vincent <vincent.whelan@woodplc.com>; McCartney, W Scott <w.scott.mccartney@woodplc.com>; Surani, Shaun J (HEALTH) <Shaun.Surani@health.ny.gov>
Cc: Etter, Terry R. <terry.etter@unisys.com>; Paul Brookner <PBrookner@Geosyntec.com>; Miranda Stelmach <MStelmach@Geosyntec.com>; Lawrence Endicott <larry.endicott@keller-na.com>; Sutton, Scott <Scott.Sutton@keller-na.com>; Kyle Cunningham <kyle.cunningham@reconservices.com>; cyrs (cyrs@hunt-eas.com) <cyrs@hunt-eas.com>; grasmeyerl@hunt-eas.com; Mike Dunn <MDunn@buildwelliver.com>; Mike Fulkerson <mfulkerson@buildwelliver.com>; Jordyn Confer <jconfer@edgerinc.com>
Subject: NYSDEC #c808022 - DER-10 Request to Import Batavia Sod

CAUTION: External email. Please do not click on links/attachments unless you know the content is genuine and safe.

Good Afternoon Tim,

On behalf of ECSD, attached is a request to import sod for use in the shot-put/discus area. ECSD intends to import the sod the week of 12/12 pending weather conditions.

Thanks,

Andrew M. Millspaugh, P.E.
Sterling Environmental Engineering, P.C.
Cell: (518) 573-4378
andrew.millspaugh@sterlingenvironmental.com
www.sterlingenvironmental.com

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NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Batavia Sod

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 100-200

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 10 sieve? Choose an item

Does it contain less than 10%, by weight, material that would pass a size 100 sieve? Choose an item

Is this virgin material from a permitted mine or quarry? no

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Samples were collected to characterize up to 68,000 square feet of sod. According to information provided by NYSDEC, approximately 340 square feet of sod is equivalent to 1 cubic yard of material. Therefore, 68,000 sf is approximately 200 cubic yards. In accordance with DER-10 Table 5.4(e)10, three (3) grab samples and one (1) composite sample were collected from soil attached to base of the sod. Grab samples were analyzed for VOCs and the composite sample was analyzed for PCBs, SVOCs, Inorganics, Herbicides, Pesticides, and PFAS Compounds.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

The composite sample has a detection of total zinc at 179 mg/kg, which is above the DER-10 Appendix 5 allowable level for Unrestricted Use of 109 mg/kg but below the allowable level for Restricted Residential Use. All other detections were below the allowable levels for Unrestricted Use. See attached table for details.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Batavia Turf

Location where fill was obtained:

6465 Transit Road, Elba, NY 14058

Identification of any state or local approvals as a fill source:

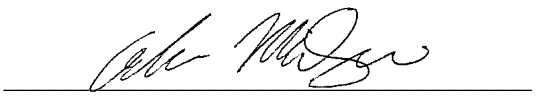
If no approvals are available, provide a brief history of the use of the property that is the fill source:

Batavia Turf grows and sells sod from a sod farm in Batavia, New York.

Provide a list of supporting documentation included with this request:

Summary Table
Analytical Report

The information provided on this form is accurate and complete.



Signature

11/22/2022

Date

Andrew Millspaugh

Print Name

Sterling Environmental Engineering, P.C.

Firm

Table 1
Request to Import Sod Data
Former Sperry Remediation Site - North Portion
Elmira, NY

ANALYTE	NY-DER10-RRU	NY-DER10-UU	EHS-SOD-1	EHS-SOD-2	EHS-SOD-3	EHS-SOD-C1
VOLATILE ORGANICS BY EPA 5035, mg/kg						
Methylene chloride	0.05	0.05	0.003 U	0.0029 U	0.0026 U	NA
1,1-Dichloroethane	0.27	0.27	0.00019 U	0.00018 U	0.00016 U	NA
Chloroform	0.37	0.37	0.00018 U	0.00018 U	0.00016 U	NA
Carbon tetrachloride	0.76	0.76	0.0003 U	0.00029 U	0.00026 U	NA
Tetrachloroethene	1.3	1.3	0.00025 U	0.00025 U	0.00022 U	NA
Chlorobenzene	1.1	1.1	0.00016 U	0.00016 U	0.00014 U	NA
1,2-Dichloroethane	0.02	0.02	0.00033 U	0.00033 U	0.00029 U	NA
1,1,1-Trichloroethane	0.68	0.68	0.00022 U	0.00021 U	0.00019 U	NA
Benzene	0.06	0.06	0.00021 U	0.00021 U	0.00019 U	NA
Toluene	0.7	0.7	0.0007 U	0.00069 U	0.00061 U	NA
Ethylbenzene	1	1	0.00018 U	0.00018 U	0.00016 U	NA
Vinyl chloride	0.02	0.02	0.00043 U	0.00043 U	0.00038 U	NA
1,1-Dichloroethene	0.33	0.33	0.00031 U	0.0003 U	0.00027 U	NA
trans-1,2-Dichloroethene	0.19	0.19	0.00018 U	0.00017 U	0.00015 U	NA
Trichloroethene	0.47	0.47	0.00018 U	0.00017 U	0.00015 U	NA
1,2-Dichlorobenzene	1.1	1.1	0.00018 U	0.00018 U	0.00016 U	NA
1,3-Dichlorobenzene	2.4	2.4	0.00019 U	0.00019 U	0.00017 U	NA
1,4-Dichlorobenzene	1.8	1.8	0.00022 U	0.00022 U	0.00019 U	NA
Methyl tert butyl ether	0.93	0.93	0.00026 U	0.00026 U	0.00023 U	NA
p/m-Xylene	---	---	0.00072 U	0.00071 U	0.00063 U	NA
o-Xylene	---	---	0.00038 U	0.00037 U	0.00033 U	NA
cis-1,2-Dichloroethene	0.25	0.25	0.00023 U	0.00022 U	0.0002 U	NA
Acetone	0.05	0.05	0.0067 J	0.0061 U	0.0054 U	NA
2-Butanone	0.12	0.12	0.0029 U	0.0028 U	0.0025 U	NA
n-Butylbenzene	12	12	0.00022 U	0.00021 U	0.00019 U	NA
sec-Butylbenzene	11	11	0.00019 U	0.00019 U	0.00016 U	NA
tert-Butylbenzene	5.9	5.9	0.00015 U	0.00015 U	0.00013 U	NA
n-Propylbenzene	3.9	3.9	0.00022 U	0.00022 U	0.00019 U	NA
1,3,5-Trimethylbenzene	8.4	8.4	0.00025 U	0.00025 U	0.00022 U	NA
1,2,4-Trimethylbenzene	3.6	3.6	0.00043 U	0.00043 U	0.00038 U	NA
1,4-Dioxane	0.1	0.1	0.045 U	0.045 U	0.04 U	NA
PERFLUORINATED ALKYL ACIDS BY ISOTOPE DILUTION, mg/kg						
Perfluorobutanoic Acid (PFBA)	---	---	NA	NA	NA	0.000128 J
Perfluoropentanoic Acid (PFPeA)	---	---	NA	NA	NA	0.000058 U
Perfluorobutanesulfonic Acid (PFBS)	---	---	NA	NA	NA	0.000049 U
Perfluorohexanoic Acid (PFHxA)	---	---	NA	NA	NA	0.000066 U
Perfluoroheptanoic Acid (PFHpA)	---	---	NA	NA	NA	0.000056 U
Perfluorohexanesulfonic Acid (PFHxS)	---	---	NA	NA	NA	0.000076 U
Perfluorooctanoic Acid (PFOA)	0.033	0.00066	NA	NA	NA	0.000111 J
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	---	---	NA	NA	NA	0.000224 U
Perfluoroheptanesulfonic Acid (PFHpS)	---	---	NA	NA	NA	0.000171 U
Perfluorononanoic Acid (PFNA)	---	---	NA	NA	NA	0.000094 U
Perfluorooctanesulfonic Acid (PFOS)	0.044	0.00088	NA	NA	NA	0.000162 U
Perfluorodecanoic Acid (PFDA)	---	---	NA	NA	NA	0.000084 U
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	---	---	NA	NA	NA	0.000359 U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	---	---	NA	NA	NA	0.000252 U
Perfluoroundecanoic Acid (PFUnA)	---	---	NA	NA	NA	0.000059 U
Perfluorodecanesulfonic Acid (PFDS)	---	---	NA	NA	NA	0.000191 U
Perfluorooctanesulfonamide (FOSA)	---	---	NA	NA	NA	0.000122 U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	---	---	NA	NA	NA	0.000106 U
Perfluorododecanoic Acid (PFDoA)	---	---	NA	NA	NA	0.000088 U
Perfluorotridecanoic Acid (PFTrDA)	---	---	NA	NA	NA	0.000256 U
Perfluorotetradecanoic Acid (PFTA)	---	---	NA	NA	NA	0.000068 U
SEMIVOLATILE ORGANICS BY GC/MS, mg/kg						
Acenaphthene	98	20	NA	NA	NA	0.023 U
Hexachlorobenzene	1.2	0.33	NA	NA	NA	0.025 U
Fluoranthene	100	100	NA	NA	NA	0.026 U
Naphthalene	12	12	NA	NA	NA	0.027 U
Benzo(a)anthracene	1	1	NA	NA	NA	0.025 U
Benzo(a)pyrene	1	1	NA	NA	NA	0.054 U
Benzo(b)fluoranthene	1	1	NA	NA	NA	0.037 U
Benzo(k)fluoranthene	1.7	0.8	NA	NA	NA	0.036 U
Chrysene	1	1	NA	NA	NA	0.023 U
Acenaphthylene	100	100	NA	NA	NA	0.034 U
Anthracene	100	100	NA	NA	NA	0.043 U
Benzo(ghi)perylene	100	100	NA	NA	NA	0.026 U
Fluorene	100	30	NA	NA	NA	0.022 U
Phenanthrene	100	100	NA	NA	NA	0.027 U
Dibenzo(a,h)anthracene	0.33	0.33	NA	NA	NA	0.026 U
Indeno(1,2,3-cd)pyrene	0.5	0.5	NA	NA	NA	0.031 U
Pyrene	100	100	NA	NA	NA	0.022 U
Dibenzofuran	59	7	NA	NA	NA	0.021 U
Pentachlorophenol	0.8	0.8	NA	NA	NA	0.049 U
Phenol	0.33	0.33	NA	NA	NA	0.034 U
2-Methylphenol	0.33	0.33	NA	NA	NA	0.034 U
3-Methylphenol/4-Methylphenol	0.33	0.33	NA	NA	NA	0.035 U
1,4-Dioxane	0.1	0.1	NA	NA	NA	0.01 U

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Table 1
Request to Import Sod Data
Former Sperry Remediation Site - North Portion
Elmira, NY

ANALYTE	NY-DER10-RRU	NY-DER10-UU	EHS-SOD-1	EHS-SOD-2	EHS-SOD-3	EHS-SOD-C1
CHLORINATED HERBICIDES BY GC, mg/kg						
2,4,5-TP (Silvex)	3.8	3.8	NA	NA	NA	0.00593 U
ORGANOCHLORINE PESTICIDES BY GC, mg/kg						
Delta-BHC	0.25	0.04	NA	NA	NA	0.000422 U
Lindane	0.1	0.1	NA	NA	NA	0.000401 U
Alpha-BHC	0.02	0.02	NA	NA	NA	0.000255 U
Beta-BHC	0.09	0.036	NA	NA	NA	0.000817 U
Heptachlor	0.38	0.042	NA	NA	NA	0.000483 U
Aldrin	0.097	0.005	NA	NA	NA	0.000758 U
Endrin	0.06	0.014	NA	NA	NA	0.000368 U
Dieldrin	0.1	0.005	NA	NA	NA	0.000673 U
4,4'-DDE	8.9	0.0033	NA	NA	NA	0.000498 IP
4,4'-DDD	13	0.0033	NA	NA	NA	0.000768 U
4,4'-DDT	7.9	0.0033	NA	NA	NA	0.00173 U
Endosulfan I	24	2.4	NA	NA	NA	0.000509 U
Endosulfan II	24	2.4	NA	NA	NA	0.00072 U
Endosulfan sulfate	24	2.4	NA	NA	NA	0.000427 U
cis-Chlordane	2.9	0.094	NA	NA	NA	0.00075 U
POLYCHLORINATED BIPHENYLS BY GC, mg/kg						
Aroclor 1016	1	0.1	NA	NA	NA	0.00396 U
Aroclor 1221	1	0.1	NA	NA	NA	0.00447 U
Aroclor 1232	1	0.1	NA	NA	NA	0.00945 U
Aroclor 1242	1	0.1	NA	NA	NA	0.00601 U
Aroclor 1248	1	0.1	NA	NA	NA	0.00669 U
Aroclor 1254	1	0.1	NA	NA	NA	0.00488 U
Aroclor 1260	1	0.1	NA	NA	NA	0.00824 U
Aroclor 1262	1	0.1	NA	NA	NA	0.00566 U
Aroclor 1268	1	0.1	NA	NA	NA	0.00462 U
GENERAL CHEMISTRY, mg/kg						
Chromium, Trivalent	180	30	NA	NA	NA	20.6
Solids, Total (%)	---	---	72.5	71	76.6	73.2
Cyanide, Total	27	27	NA	NA	NA	0.27 U
Chromium, Hexavalent	19	1	NA	NA	NA	0.218 U
TOTAL METALS, mg/kg						
Arsenic, Total	16	13	NA	NA	NA	5.99
Barium, Total	400	350	NA	NA	NA	117
Beryllium, Total	47	7.2	NA	NA	NA	0.804
Cadmium, Total	4.3	2.5	NA	NA	NA	1.09
Chromium, Total	---	---	NA	NA	NA	20.6
Copper, Total	270	50	NA	NA	NA	44.9
Lead, Total	400	63	NA	NA	NA	26.3
Manganese, Total	2000	1600	NA	NA	NA	537
Mercury, Total	0.73	0.18	NA	NA	NA	0.066 J
Nickel, Total	130	30	NA	NA	NA	16.4
Selenium, Total	4	3.9	NA	NA	NA	1.48 J
Silver, Total	8.3	2	NA	NA	NA	0.308 U
Zinc, Total	2480	109	NA	NA	NA	179

NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10, May 3, 2010.
NY-DER10-UU: New York DER-10 Unrestricted Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10, May 3, 2010.
PFOA and PFOS standards from NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances under NYSDEC Part 375 Remedial Programs, November 2022
---: No applicable standard.
Highlighed exceeds NY-DER10-UU Unrestricted Use
U: Not Detected. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
NA: Not analyzed.

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ANALYTICAL REPORT

Lab Number:	L2259425
Client:	Sterling Environmental Engineering 24 Wade Road Latham, NY 12110
ATTN:	Andrew Millspaugh
Phone:	(518) 456-4900
Project Name:	EHS-SOD
Project Number:	2021-01
Report Date:	11/21/22

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2259425-01	EHS-SOD-1	SOIL	BATAVIA,NY	10/24/22 08:25	10/24/22
L2259425-02	EHS-SOD-2	SOIL	BATAVIA,NY	10/24/22 08:45	10/24/22
L2259425-03	EHS-SOD-3	SOIL	BATAVIA,NY	10/24/22 09:05	10/24/22
L2259425-04	EHS-SOD-C1	SOIL	BATAVIA,NY	10/24/22 09:20	10/24/22

Project Name:	EHS-SOD	**Lab Number:**	L2259425
Project Number:	2021-01	**Report Date:**	11/21/22

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: EHS-SOD **Lab Number:** L2259425
Project Number: 2021-01 **Report Date:** 11/21/22

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by Isotope Dilution

L2259425-04: The MeOH fraction of the extraction is reported for perfluorooctanesulfonamide (fosa) due to better extraction efficiency of the perfluoro[13c8]octanesulfonamide (m8fosa) Extracted Internal Standard.
The Extracted Internal Standard recovery for the WG1708773-1 Method Blank, associated with L2259425-04, is below the acceptance criteria for perfluoro[13c8]octanesulfonamide (m8fosa) (less than 10%). Perfluorooctanesulfonamide (FOSA) in the associated sample is reported from the MEOH fraction.
WG1708773-1 and WG1708773-2: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.
WG1708773-2: The Extracted Internal Standard recovery for the WG1708773-2 LCS, associated with L2259425-04, is below the acceptance criteria (less than 10%) for perfluoro[13c8]octanesulfonamide (m8fosa) (3%); however, all associated target analytes are within overall LCS criteria; therefore, no further action was taken.

Total Metals

L2259425-04: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

Cyanide, Total

The WG1705295-2 LCS recovery for cyanide, total (69%), associated with L2259425-04, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

Project Name:	EHS-SOD	**Lab Number:**	L2259425
Project Number:	2021-01	**Report Date:**	11/21/22

Case Narrative (continued)

Hexavalent Chromium

The WG1713699-5 Soluble MS recovery for chromium, hexavalent (64%), performed on L2259425-04, was outside the acceptance criteria. This has been attributed to matrix interference. A post-spike was performed with a recovery of 86%.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 11/21/22

ORGANICS

VOLATILES

Project Name: EHS-SOD
Project Number: 2021-01
Lab Number: L2259425
Report Date: 11/21/22

SAMPLE RESULTS

Lab ID: L2259425-01
Client ID: EHS-SOD-1
Sample Location: BATAVIA,NY
Date Collected: 10/24/22 08:25
Date Received: 10/24/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 11/04/22 16:22
Analyst: JIC
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.4	3.0	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.19	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.30	1
Tetrachloroethene	ND		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.22	1
Benzene	ND		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.70	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.31	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.18	1
Trichloroethene	ND		ug/kg	0.64	0.18	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.72	1
o-Xylene	ND		ug/kg	1.3	0.38	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.23	1
Acetone	6.7	J	ug/kg	13	6.2	1
2-Butanone	ND		ug/kg	13	2.9	1
n-Butylbenzene	ND		ug/kg	1.3	0.22	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
n-Propylbenzene	ND		ug/kg	1.3	0.22	1

Project Name: EHS-SOD
Project Number: 2021-01
Lab Number: L2259425
Report Date: 11/21/22

SAMPLE RESULTS

Lab ID: L2259425-01
Client ID: EHS-SOD-1
Sample Location: BATAVIA,NY
Date Collected: 10/24/22 08:25
Date Received: 10/24/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
1,4-Dioxane	ND		ug/kg	100	45.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	95		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	111		70-130

Project Name: EHS-SOD
Project Number: 2021-01
Lab Number: L2259425
Report Date: 11/21/22

SAMPLE RESULTS

Lab ID: L2259425-02
Client ID: EHS-SOD-2
Sample Location: BATAVIA,NY
Date Collected: 10/24/22 08:45
Date Received: 10/24/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 11/04/22 16:48
Analyst: JIC
Percent Solids: 71%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	6.4	2.9	1
1,1-Dichloroethane	ND		ug/kg	1.3	0.18	1
Chloroform	ND		ug/kg	1.9	0.18	1
Carbon tetrachloride	ND		ug/kg	1.3	0.29	1
Tetrachloroethene	ND		ug/kg	0.64	0.25	1
Chlorobenzene	ND		ug/kg	0.64	0.16	1
1,2-Dichloroethane	ND		ug/kg	1.3	0.33	1
1,1,1-Trichloroethane	ND		ug/kg	0.64	0.21	1
Benzene	ND		ug/kg	0.64	0.21	1
Toluene	ND		ug/kg	1.3	0.69	1
Ethylbenzene	ND		ug/kg	1.3	0.18	1
Vinyl chloride	ND		ug/kg	1.3	0.43	1
1,1-Dichloroethene	ND		ug/kg	1.3	0.30	1
trans-1,2-Dichloroethene	ND		ug/kg	1.9	0.17	1
Trichloroethene	ND		ug/kg	0.64	0.17	1
1,2-Dichlorobenzene	ND		ug/kg	2.6	0.18	1
1,3-Dichlorobenzene	ND		ug/kg	2.6	0.19	1
1,4-Dichlorobenzene	ND		ug/kg	2.6	0.22	1
Methyl tert butyl ether	ND		ug/kg	2.6	0.26	1
p/m-Xylene	ND		ug/kg	2.6	0.71	1
o-Xylene	ND		ug/kg	1.3	0.37	1
cis-1,2-Dichloroethene	ND		ug/kg	1.3	0.22	1
Acetone	ND		ug/kg	13	6.1	1
2-Butanone	ND		ug/kg	13	2.8	1
n-Butylbenzene	ND		ug/kg	1.3	0.21	1
sec-Butylbenzene	ND		ug/kg	1.3	0.19	1
tert-Butylbenzene	ND		ug/kg	2.6	0.15	1
n-Propylbenzene	ND		ug/kg	1.3	0.22	1

Project Name: EHS-SOD
Project Number: 2021-01
Lab Number: L2259425
Report Date: 11/21/22

SAMPLE RESULTS

Lab ID: L2259425-02
Client ID: EHS-SOD-2
Sample Location: BATAVIA,NY
Date Collected: 10/24/22 08:45
Date Received: 10/24/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.6	0.25	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.6	0.43	1
1,4-Dioxane	ND		ug/kg	100	45.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	95		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	112		70-130

Project Name: EHS-SOD
Project Number: 2021-01
Lab Number: L2259425
Report Date: 11/21/22

SAMPLE RESULTS

Lab ID: L2259425-03
Client ID: EHS-SOD-3
Sample Location: BATAVIA,NY

Date Collected: 10/24/22 09:05
Date Received: 10/24/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 11/04/22 17:13
Analyst: JIC
Percent Solids: 77%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Benzene	ND		ug/kg	0.56	0.19	1
Toluene	ND		ug/kg	1.1	0.61	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.63	1
o-Xylene	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
Acetone	ND		ug/kg	11	5.4	1
2-Butanone	ND		ug/kg	11	2.5	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.3	0.13	1
n-Propylbenzene	ND		ug/kg	1.1	0.19	1

Project Name: EHS-SOD
Project Number: 2021-01
Lab Number: L2259425
Report Date: 11/21/22

SAMPLE RESULTS

Lab ID: L2259425-03
Client ID: EHS-SOD-3
Sample Location: BATAVIA,NY
Date Collected: 10/24/22 09:05
Date Received: 10/24/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	90	40.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	97		70-130
4-Bromofluorobenzene	92		70-130
Dibromofluoromethane	112		70-130

Project Name: EHS-SOD
Project Number: 2021-01
Lab Number: L2259425
Report Date: 11/21/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 11/04/22 09:01
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1709510-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Vinyl chloride	ND		ug/kg	1.0	0.34
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Acetone	ND		ug/kg	10	4.8
2-Butanone	ND		ug/kg	10	2.2
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 11/04/22 09:01
Analyst: NLK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1709510-5					
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	88		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	97		70-130
Dibromofluoromethane	101		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1709510-3 WG1709510-4								
Methylene chloride	89		87		70-130	2		30
1,1-Dichloroethane	99		97		70-130	2		30
Chloroform	88		87		70-130	1		30
Carbon tetrachloride	98		97		70-130	1		30
Tetrachloroethene	127		123		70-130	3		30
Chlorobenzene	106		104		70-130	2		30
1,2-Dichloroethane	85		83		70-130	2		30
1,1,1-Trichloroethane	98		96		70-130	2		30
Benzene	95		93		70-130	2		30
Toluene	103		101		70-130	2		30
Ethylbenzene	100		98		70-130	2		30
Vinyl chloride	88		84		67-130	5		30
1,1-Dichloroethene	115		112		65-135	3		30
trans-1,2-Dichloroethene	107		104		70-130	3		30
Trichloroethene	103		100		70-130	3		30
1,2-Dichlorobenzene	101		100		70-130	1		30
1,3-Dichlorobenzene	103		103		70-130	0		30
1,4-Dichlorobenzene	102		101		70-130	1		30
Methyl tert butyl ether	84		83		66-130	1		30
p/m-Xylene	109		106		70-130	3		30
o-Xylene	103		102		70-130	1		30
cis-1,2-Dichloroethene	98		96		70-130	2		30
Acetone	62		60		54-140	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1709510-3 WG1709510-4								
2-Butanone	**63**	Q	**61**	Q	70-130	3		30
n-Butylbenzene	92		90		70-130	2		30
sec-Butylbenzene	97		96		70-130	1		30
tert-Butylbenzene	103		103		70-130	0		30
n-Propylbenzene	93		93		70-130	0		30
1,3,5-Trimethylbenzene	100		99		70-130	1		30
1,2,4-Trimethylbenzene	99		98		70-130	1		30
1,4-Dioxane	111		109		65-136	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	86		85		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	94		96		70-130
Dibromofluoromethane	102		101		70-130

SEMIVOLATILES

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

SAMPLE RESULTS

Lab ID: L2259425-04
Client ID: EHS-SOD-C1
Sample Location: BATAVIA,NY

Date Collected: 10/24/22 09:20
Date Received: 10/24/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 11/01/22 15:01
Analyst: CMM
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 10/31/22 00:33

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	180	23.	1
Hexachlorobenzene	ND		ug/kg	130	25.	1
Fluoranthene	ND		ug/kg	130	26.	1
Naphthalene	ND		ug/kg	220	27.	1
Benzo(a)anthracene	ND		ug/kg	130	25.	1
Benzo(a)pyrene	ND		ug/kg	180	54.	1
Benzo(b)fluoranthene	ND		ug/kg	130	37.	1
Benzo(k)fluoranthene	ND		ug/kg	130	36.	1
Chrysene	ND		ug/kg	130	23.	1
Acenaphthylene	ND		ug/kg	180	34.	1
Anthracene	ND		ug/kg	130	43.	1
Benzo(ghi)perylene	ND		ug/kg	180	26.	1
Fluorene	ND		ug/kg	220	22.	1
Phenanthrene	ND		ug/kg	130	27.	1
Dibenzo(a,h)anthracene	ND		ug/kg	130	26.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	180	31.	1
Pyrene	ND		ug/kg	130	22.	1
Dibenzofuran	ND		ug/kg	220	21.	1
Pentachlorophenol	ND		ug/kg	180	49.	1
Phenol	ND		ug/kg	220	34.	1
2-Methylphenol	ND		ug/kg	220	34.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	320	35.	1
1,4-Dioxane	ND		ug/kg	33	10.	1

Project Name: EHS-SOD
Project Number: 2021-01
Lab Number: L2259425
Report Date: 11/21/22

SAMPLE RESULTS

Lab ID: L2259425-04
Client ID: EHS-SOD-C1
Sample Location: BATAVIA,NY
Date Collected: 10/24/22 09:20
Date Received: 10/24/22
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	61		25-120
Phenol-d6	59		10-120
Nitrobenzene-d5	56		23-120
2-Fluorobiphenyl	67		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	69		18-120

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

SAMPLE RESULTS

Lab ID: L2259425-04
Client ID: EHS-SOD-C1
Sample Location: BATAVIA,NY

Date Collected: 10/24/22 09:20
Date Received: 10/24/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/08/22 04:12
Analyst: JW
Percent Solids: 73%

Extraction Method: ALPHA 23528
Extraction Date: 11/07/22 12:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.128	J	ng/g	0.625	0.028	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.625	0.058	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.313	0.049	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.625	0.066	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.313	0.056	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.313	0.076	1
Perfluorooctanoic Acid (PFOA)	0.111	J	ng/g	0.313	0.052	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.625	0.224	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.625	0.171	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.313	0.094	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.313	0.162	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.313	0.084	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.625	0.359	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.625	0.252	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.625	0.059	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.625	0.191	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.625	0.106	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.625	0.088	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.625	0.256	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.625	0.068	1
PFOA/PFOS, Total	0.111	J	ng/g	0.313	0.052	1

Project Name: EHS-SOD **Lab Number:** L2259425

Project Number: 2021-01 **Report Date:** 11/21/22

SAMPLE RESULTS

Lab ID: L2259425-04 Date Collected: 10/24/22 09:20

Client ID: EHS-SOD-C1 Date Received: 10/24/22

Sample Location: BATAVIA,NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	88		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	85		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	87		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	100		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	88		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	89		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	98		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	90		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	118		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	57		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	92		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	55		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	80		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	69		24-159

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

SAMPLE RESULTS

Lab ID: L2259425-04
Client ID: EHS-SOD-C1
Sample Location: BATAVIA,NY

Date Collected: 10/24/22 09:20
Date Received: 10/24/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/08/22 21:31
Analyst: JW
Percent Solids: 73%

Extraction Method: ALPHA 23528
Extraction Date: 11/07/22 12:29

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.625	0.122	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	78		10-117

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/31/22 23:26
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 10/30/22 21:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1706027-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Fluoranthene	ND		ug/kg	99	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	99	19.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	26.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Dibenzofuran	ND		ug/kg	160	16.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
1,4-Dioxane	ND		ug/kg	25	7.6

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/31/22 23:26
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 10/30/22 21:10

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 04 Batch: WG1706027-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	65		10-120
Nitrobenzene-d5	61		23-120
2-Fluorobiphenyl	66		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	76		18-120

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/08/22 02:32
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 11/07/22 12:29

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 04 Batch: WG1708773-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/08/22 02:32
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 11/07/22 12:29

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 04 Batch: WG1708773-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	73		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	72		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	82		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	70		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	71		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	80		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	81		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	69		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	74		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	**75**	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	**71**	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	83		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**25**	Q	31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	68		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**2**	Q	10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**26**	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	56		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	39		24-159

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/08/22 21:12
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 11/07/22 12:29

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 04 Batch: WG1708773-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	87		10-117

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1706027-2 WG1706027-3								
Acenaphthene	70		71		31-137	1		50
Hexachlorobenzene	67		68		40-140	1		50
Fluoranthene	70		71		40-140	1		50
Naphthalene	61		64		40-140	5		50
Benzo(a)anthracene	71		73		40-140	3		50
Benzo(a)pyrene	69		75		40-140	8		50
Benzo(b)fluoranthene	67		71		40-140	6		50
Benzo(k)fluoranthene	74		80		40-140	8		50
Chrysene	70		73		40-140	4		50
Acenaphthylene	62		64		40-140	3		50
Anthracene	72		72		40-140	0		50
Benzo(ghi)perylene	64		70		40-140	9		50
Fluorene	70		71		40-140	1		50
Phenanthrene	68		70		40-140	3		50
Dibenzo(a,h)anthracene	68		73		40-140	7		50
Indeno(1,2,3-cd)pyrene	75		81		40-140	8		50
Pyrene	69		70		35-142	1		50
Dibenzofuran	70		72		40-140	3		50
Pentachlorophenol	70		71		17-109	1		50
Phenol	60		64		26-90	6		50
2-Methylphenol	60		66		30-130.	10		50
3-Methylphenol/4-Methylphenol	61		64		30-130	5		50
1,4-Dioxane	40		44		40-140	10		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 04 Batch: WG1706027-2 WG1706027-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	59		65		25-120
Phenol-d6	62		63		10-120
Nitrobenzene-d5	57		59		23-120
2-Fluorobiphenyl	65		66		30-120
2,4,6-Tribromophenol	67		68		10-136
4-Terphenyl-d14	68		70		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 04 Batch: WG1708773-2								
Perfluorobutanoic Acid (PFBA)	91		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	93		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	93		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	91		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	90		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	101		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	86		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	100		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	89		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	87		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	96		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	87		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	103		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	108		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	108		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	78		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	82		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	103		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	95		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	102		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	101		-		69-133	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 04 Batch: WG1708773-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	71				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	70				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	79				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	67				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	**69**	Q			71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	78				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	79				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	71				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	**71**	Q			72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	**72**	Q			79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	**70**	Q			75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	84				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**21**	Q			31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	65				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**3**	Q			10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**22**	Q			34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	**53**	Q			54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	36				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-SOD

Project Number: 2021-01

Lab Number: L2259425

Report Date: 11/21/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 04 Batch: WG1708773-2								
Perfluorooctanesulfonamide (FOSA)	92		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	86				10-117

Matrix Spike Analysis

Batch Quality Control

Project Name: EHS-SOD

Project Number: 2021-01

Lab Number: L2259425

Report Date: 11/21/22

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1708773-3 QC Sample: L2259425-04 Client ID: EHS-SOD-C1												
Perfluorobutanoic Acid (PFBA)	0.128J	6.18	6.02	95		-	-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	ND	6.18	6.07	98		-	-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	5.49	5.47	100		-	-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	ND	6.18	5.97	97		-	-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	6.18	6.06	98		-	-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	5.65	6.04	107		-	-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	0.111J	6.18	5.86	93		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.88	6.44	109		-	-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.9	5.86	99		-	-		70-132	-		30
Perfluorononanoic Acid (PFNA)	ND	6.18	5.74	93		-	-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	ND	5.74	6.24	109		-	-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	ND	6.18	5.82	94		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.93	7.23	122		-	-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	6.18	6.23	101		-	-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	6.18	6.94	112		-	-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.97	5.30	89		-	-		59-134	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	6.18	6.20	100		-	-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	ND	6.18	6.11	99		-	-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	ND	6.18	6.55	106		-	-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	6.18	6.54	106		-	-		69-133	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: EHS-SOD

Project Number: 2021-01

Lab Number: L2259425

Report Date: 11/21/22

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1708773-3 QC Sample: L2259425-04 Client ID: EHS-SOD-C1												

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	113				19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	90				20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	50				34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	57				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	95				61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	91				75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	84				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	87				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	98				78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	81				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	69				24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	88				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	86				58-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	94				79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98				75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	91				72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	99				74-139

Lab Duplicate Analysis
Batch Quality Control

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1708773-4 QC Sample: L2259387-08 Client ID: DUP Sample						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/g	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/g	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/g	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/g	NC		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ng/g	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/g	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/g	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/g	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/g	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/g	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/g	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/g	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/g	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/g	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/g	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/g	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1708773-4 QC Sample: L2259387-08 Client ID: DUP Sample						
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/g	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/g	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/g	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	95		95		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	92		92		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	105		104		74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	91		88		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		90		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	93		92		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	103		105		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	103		104		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	92		96		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94		94		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	99		100		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	94		93		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	112		121		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	**30**	Q	31		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	95		93		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**29**	Q	**28**	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	81		80		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	70		70		24-159

PCBS

Project Name: EHS-SOD
Project Number: 2021-01
Lab Number: L2259425
Report Date: 11/21/22

SAMPLE RESULTS

Lab ID: L2259425-04
Client ID: EHS-SOD-C1
Sample Location: BATAVIA,NY

Date Collected: 10/24/22 09:20
Date Received: 10/24/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/31/22 22:04
Analyst: JM
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 10/31/22 00:42
Cleanup Method: EPA 3665A
Cleanup Date: 10/31/22
Cleanup Method: EPA 3660B
Cleanup Date: 10/31/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	44.6	3.96	1	A
Aroclor 1221	ND		ug/kg	44.6	4.47	1	A
Aroclor 1232	ND		ug/kg	44.6	9.45	1	A
Aroclor 1242	ND		ug/kg	44.6	6.01	1	A
Aroclor 1248	ND		ug/kg	44.6	6.69	1	A
Aroclor 1254	ND		ug/kg	44.6	4.88	1	A
Aroclor 1260	ND		ug/kg	44.6	8.24	1	A
Aroclor 1262	ND		ug/kg	44.6	5.66	1	A
Aroclor 1268	ND		ug/kg	44.6	4.62	1	A
PCBs, Total	ND		ug/kg	44.6	3.96	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	54		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	54		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/31/22 21:40
Analyst: JM

Extraction Method: EPA 3546
Extraction Date: 10/31/22 00:42
Cleanup Method: EPA 3665A
Cleanup Date: 10/31/22
Cleanup Method: EPA 3660B
Cleanup Date: 10/31/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 04 Batch: WG1706046-1						
Aroclor 1016	ND		ug/kg	32.6	2.90	A
Aroclor 1221	ND		ug/kg	32.6	3.27	A
Aroclor 1232	ND		ug/kg	32.6	6.92	A
Aroclor 1242	ND		ug/kg	32.6	4.40	A
Aroclor 1248	ND		ug/kg	32.6	4.90	A
Aroclor 1254	ND		ug/kg	32.6	3.57	A
Aroclor 1260	ND		ug/kg	32.6	6.03	A
Aroclor 1262	ND		ug/kg	32.6	4.14	A
Aroclor 1268	ND		ug/kg	32.6	3.38	A
PCBs, Total	ND		ug/kg	32.6	2.90	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	93		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	82		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-SOD

Project Number: 2021-01

Lab Number: L2259425

Report Date: 11/21/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 04 Batch: WG1706046-2 WG1706046-3									
Aroclor 1016	70		67		40-140	4		50	A
Aroclor 1260	72		68		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		66		30-150	A
Decachlorobiphenyl	87		82		30-150	A
2,4,5,6-Tetrachloro-m-xylene	69		67		30-150	B
Decachlorobiphenyl	79		75		30-150	B

PESTICIDES

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

SAMPLE RESULTS

Lab ID: L2259425-04
Client ID: EHS-SOD-C1
Sample Location: BATAVIA,NY

Date Collected: 10/24/22 09:20
Date Received: 10/24/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 11/01/22 15:35
Analyst: AAR
Percent Solids: 73%

Extraction Method: EPA 3546
Extraction Date: 10/29/22 09:53
Cleanup Method: EPA 3620B
Cleanup Date: 10/31/22
Cleanup Method: EPA 3660B
Cleanup Date: 11/01/22

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	2.15	0.422	1	A
Lindane	ND		ug/kg	0.898	0.401	1	A
Alpha-BHC	ND		ug/kg	0.898	0.255	1	A
Beta-BHC	ND		ug/kg	2.15	0.817	1	A
Heptachlor	ND		ug/kg	1.08	0.483	1	A
Aldrin	ND		ug/kg	2.15	0.758	1	A
Endrin	ND		ug/kg	0.898	0.368	1	A
Dieldrin	ND		ug/kg	1.35	0.673	1	A
4,4'-DDE	ND	IP	ug/kg	2.15	0.498	1	B
4,4'-DDD	ND		ug/kg	2.15	0.768	1	A
4,4'-DDT	ND		ug/kg	2.15	1.73	1	A
Endosulfan I	ND		ug/kg	2.15	0.509	1	A
Endosulfan II	ND		ug/kg	2.15	0.720	1	A
Endosulfan sulfate	ND		ug/kg	0.898	0.427	1	A
cis-Chlordane	ND		ug/kg	2.69	0.750	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		30-150	A
Decachlorobiphenyl	60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	64		30-150	B
Decachlorobiphenyl	92		30-150	B

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

SAMPLE RESULTS

Lab ID: L2259425-04
Client ID: EHS-SOD-C1
Sample Location: BATAVIA,NY

Date Collected: 10/24/22 09:20
Date Received: 10/24/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/27/22 16:18
Analyst: EJL
Percent Solids: 73%
Methylation Date: 10/27/22 08:29

Extraction Method: EPA 8151A
Extraction Date: 10/26/22 01:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	223	5.93	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	132		30-150	A
DCAA	80		30-150	B

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 10/27/22 13:51
Analyst: EJL

Extraction Method: EPA 8151A
Extraction Date: 10/26/22 01:25

Methylation Date: 10/27/22 08:29

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 04 Batch: WG1704142-1						
2,4,5-TP (Silvex)	ND		ug/kg	162	4.30	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	113		30-150	A
DCAA	79		30-150	B

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/30/22 16:22
Analyst: MMG

Extraction Method: EPA 3546
Extraction Date: 10/29/22 09:53
Cleanup Method: EPA 3620B
Cleanup Date: 10/30/22
Cleanup Method: EPA 3660B
Cleanup Date: 10/30/22

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 04 Batch: WG1705783-1						
Delta-BHC	ND		ug/kg	1.52	0.297	A
Lindane	ND		ug/kg	0.631	0.282	A
Alpha-BHC	ND		ug/kg	0.631	0.179	A
Beta-BHC	ND		ug/kg	1.52	0.574	A
Heptachlor	ND		ug/kg	0.758	0.340	A
Aldrin	ND		ug/kg	1.52	0.533	A
Endrin	ND		ug/kg	0.631	0.259	A
Dieldrin	ND		ug/kg	0.947	0.473	A
4,4'-DDE	ND		ug/kg	1.52	0.350	A
4,4'-DDD	ND		ug/kg	1.52	0.540	A
4,4'-DDT	ND		ug/kg	1.52	1.22	A
Endosulfan I	ND		ug/kg	1.52	0.358	A
Endosulfan II	ND		ug/kg	1.52	0.506	A
Endosulfan sulfate	ND		ug/kg	0.631	0.300	A
cis-Chlordane	ND		ug/kg	1.89	0.528	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	75		30-150	A
Decachlorobiphenyl	84		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		30-150	B
Decachlorobiphenyl	80		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-SOD

Project Number: 2021-01

Lab Number: L2259425

Report Date: 11/21/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 04 Batch: WG1704142-2 WG1704142-3									
2,4,5-TP (Silvex)	89		105		30-150	16		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	93		109		30-150	A
DCAA	74		84		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-SOD

Project Number: 2021-01

Lab Number: L2259425

Report Date: 11/21/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 04 Batch: WG1705783-2 WG1705783-3									
Delta-BHC	82		90		30-150	9		30	A
Lindane	104		110		30-150	6		30	A
Alpha-BHC	102		107		30-150	5		30	A
Beta-BHC	102		102		30-150	0		30	A
Heptachlor	111		116		30-150	4		30	A
Aldrin	94		101		30-150	7		30	A
Endrin	108		114		30-150	5		30	A
Dieldrin	120		118		30-150	2		30	A
4,4'-DDE	107		113		30-150	5		30	A
4,4'-DDD	136		140		30-150	3		30	A
4,4'-DDT	135		133		30-150	1		30	A
Endosulfan I	94		101		30-150	7		30	A
Endosulfan II	106		112		30-150	6		30	A
Endosulfan sulfate	86		85		30-150	1		30	A
cis-Chlordane	86		92		30-150	7		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		77		30-150	A
Decachlorobiphenyl	86		94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		82		30-150	B
Decachlorobiphenyl	81		88		30-150	B

METALS

Project Name: EHS-SOD
Project Number: 2021-01
Lab Number: L2259425
Report Date: 11/21/22

SAMPLE RESULTS

Lab ID: L2259425-04
Client ID: EHS-SOD-C1
Sample Location: BATAVIA,NY
Date Collected: 10/24/22 09:20
Date Received: 10/24/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 73%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	5.99		mg/kg	1.09	0.226	2	10/25/22 21:29	11/02/22 18:26	EPA 3050B	1,6010D	DMB
Barium, Total	117		mg/kg	1.09	0.190	2	10/25/22 21:29	11/02/22 18:26	EPA 3050B	1,6010D	DMB
Beryllium, Total	0.804		mg/kg	0.545	0.036	2	10/25/22 21:29	11/02/22 18:26	EPA 3050B	1,6010D	DMB
Cadmium, Total	1.09		mg/kg	1.09	0.107	2	10/25/22 21:29	11/02/22 18:26	EPA 3050B	1,6010D	DMB
Chromium, Total	20.6		mg/kg	1.09	0.104	2	10/25/22 21:29	11/02/22 18:26	EPA 3050B	1,6010D	DMB
Copper, Total	44.9		mg/kg	1.09	0.281	2	10/25/22 21:29	11/02/22 18:26	EPA 3050B	1,6010D	DMB
Lead, Total	26.3		mg/kg	5.45	0.292	2	10/25/22 21:29	11/02/22 18:26	EPA 3050B	1,6010D	DMB
Manganese, Total	537		mg/kg	1.09	0.173	2	10/25/22 21:29	11/02/22 18:26	EPA 3050B	1,6010D	DMB
Mercury, Total	0.066	J	mg/kg	0.086	0.056	1	10/25/22 22:12	10/26/22 20:04	EPA 7471B	1,7471B	ZK
Nickel, Total	16.4		mg/kg	2.72	0.264	2	10/25/22 21:29	11/02/22 18:26	EPA 3050B	1,6010D	DMB
Selenium, Total	1.48	J	mg/kg	2.18	0.281	2	10/25/22 21:29	11/02/22 18:26	EPA 3050B	1,6010D	DMB
Silver, Total	ND		mg/kg	0.545	0.308	2	10/25/22 21:29	11/02/22 18:26	EPA 3050B	1,6010D	DMB
Zinc, Total	179		mg/kg	5.45	0.319	2	10/25/22 21:29	11/02/22 18:26	EPA 3050B	1,6010D	DMB
General Chemistry - Mansfield Lab											
Chromium, Trivalent	20.6		mg/kg	1.09	1.09	1		11/17/22 23:20	NA	107,-	

Project Name: EHS-SOD
Project Number: 2021-01
Lab Number: L2259425
Report Date: 11/21/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 04 Batch: WG1703854-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	10/25/22 21:29	10/26/22 12:18	1,6010D	NTB
Barium, Total	ND		mg/kg	0.400	0.070	1	10/25/22 21:29	10/26/22 12:18	1,6010D	NTB
Beryllium, Total	ND		mg/kg	0.200	0.013	1	10/25/22 21:29	10/26/22 12:18	1,6010D	NTB
Cadmium, Total	ND		mg/kg	0.400	0.039	1	10/25/22 21:29	10/26/22 12:18	1,6010D	NTB
Chromium, Total	ND		mg/kg	0.400	0.038	1	10/25/22 21:29	10/26/22 12:18	1,6010D	NTB
Copper, Total	ND		mg/kg	0.400	0.103	1	10/25/22 21:29	10/26/22 12:18	1,6010D	NTB
Lead, Total	ND		mg/kg	2.00	0.107	1	10/25/22 21:29	10/26/22 12:18	1,6010D	NTB
Manganese, Total	ND		mg/kg	0.400	0.064	1	10/25/22 21:29	10/26/22 12:18	1,6010D	NTB
Nickel, Total	ND		mg/kg	1.00	0.097	1	10/25/22 21:29	10/26/22 12:18	1,6010D	NTB
Selenium, Total	ND		mg/kg	0.800	0.103	1	10/25/22 21:29	10/26/22 12:18	1,6010D	NTB
Silver, Total	ND		mg/kg	0.200	0.113	1	10/25/22 21:29	10/26/22 12:18	1,6010D	NTB
Zinc, Total	ND		mg/kg	2.00	0.117	1	10/25/22 21:29	10/26/22 12:18	1,6010D	NTB

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 04 Batch: WG1703856-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/25/22 22:12	10/26/22 19:14	1,7471B	ZK

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-SOD

Project Number: 2021-01

Lab Number: L2259425

Report Date: 11/21/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04 Batch: WG1703854-2 SRM Lot Number: D113-540								
Arsenic, Total	106		-		70-130	-		
Barium, Total	95		-		75-125	-		
Beryllium, Total	99		-		75-125	-		
Cadmium, Total	96		-		75-125	-		
Chromium, Total	100		-		70-130	-		
Copper, Total	99		-		75-125	-		
Lead, Total	102		-		72-128	-		
Manganese, Total	102		-		77-123	-		
Nickel, Total	96		-		70-130	-		
Selenium, Total	105		-		66-134	-		
Silver, Total	103		-		70-131	-		
Zinc, Total	94		-		70-130	-		
Total Metals - Mansfield Lab Associated sample(s): 04 Batch: WG1703856-2 SRM Lot Number: D113-540								
Mercury, Total	114		-		60-140	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1703854-3 WG1703854-4 QC Sample: L2259414-06 Client ID: MS Sample												
Arsenic, Total	2.98	10.1	13.8	107		13.2	101		75-125	4		20
Barium, Total	47.4	168	191	85		202	92		75-125	6		20
Beryllium, Total	0.583	4.2	4.73	99		4.83	101		75-125	2		20
Cadmium, Total	0.136J	4.45	4.34	97		4.37	98		75-125	1		20
Chromium, Total	6.99	16.8	22.2	90		21.6	87		75-125	3		20
Copper, Total	8.10	21	30.8	108		29.6	102		75-125	4		20
Lead, Total	5.09	44.5	48.4	97		49.4	99		75-125	2		20
Manganese, Total	334	42	364	**71**	Q	501	**396**	Q	75-125	**32**	Q	20
Nickel, Total	5.50	42	42.3	88		42.0	87		75-125	1		20
Selenium, Total	ND	10.1	10.0	99		10.6	105		75-125	6		20
Silver, Total	ND	25.2	24.8	98		25.2	100		75-125	2		20
Zinc, Total	31.5	42	64.4	78		65.5	81		75-125	2		20
Total Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1703856-3 WG1703856-4 QC Sample: L2259414-06 Client ID: MS Sample												
Mercury, Total	0.061J	1.42	1.62	114		1.62	116		80-120	0		20

Project Name: EHS-SOD
Project Number: 2021-01

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2259425
Report Date: 11/21/22

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 04 QC Batch ID: WG1703854-6 QC Sample: L2259414-06 Client ID: DUP Sample						
Barium, Total	47.4	50.5	mg/kg	7		20
Manganese, Total	334	362	mg/kg	8		20

INORGANICS
&
MISCELLANEOUS

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

SAMPLE RESULTS

Lab ID: L2259425-01
Client ID: EHS-SOD-1
Sample Location: BATAVIA,NY

Date Collected: 10/24/22 08:25
Date Received: 10/24/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	72.5		%	0.100	NA	1	-	11/02/22 21:15	121,2540G	MF

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

SAMPLE RESULTS

Lab ID: L2259425-02
Client ID: EHS-SOD-2
Sample Location: BATAVIA,NY

Date Collected: 10/24/22 08:45
Date Received: 10/24/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	71.0		%	0.100	NA	1	-	11/02/22 21:15	121,2540G	MF

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

SAMPLE RESULTS

Lab ID: L2259425-03
Client ID: EHS-SOD-3
Sample Location: BATAVIA,NY

Date Collected: 10/24/22 09:05
Date Received: 10/24/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	76.6		%	0.100	NA	1	-	11/02/22 21:15	121,2540G	MF

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

SAMPLE RESULTS

Lab ID: L2259425-04
Client ID: EHS-SOD-C1
Sample Location: BATAVIA,NY

Date Collected: 10/24/22 09:20
Date Received: 10/24/22
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	73.2		%	0.100	NA	1	-	11/02/22 21:15	121,2540G	MF
Cyanide, Total	ND		mg/kg	1.3	0.27	1	10/28/22 13:45	11/01/22 12:30	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/kg	1.09	0.218	1	11/17/22 19:15	11/17/22 23:20	1,7196A	WMT

Project Name: EHS-SOD
Project Number: 2021-01
Lab Number: L2259425
Report Date: 11/21/22

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 04 Batch: WG1705295-1										
Cyanide, Total	ND		mg/kg	0.90	0.19	1	10/28/22 13:45	11/01/22 12:00	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 04 Batch: WG1713699-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	11/17/22 19:15	11/17/22 23:20	1,7196A	WMT

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-SOD

Project Number: 2021-01

Lab Number: L2259425

Report Date: 11/21/22

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 04 Batch: WG1705295-2 WG1705295-3								
Cyanide, Total	**69**	Q	83		80-120	2		35
General Chemistry - Westborough Lab Associated sample(s): 04 Batch: WG1713699-2								
Chromium, Hexavalent	87		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1705295-4 WG1705295-5 QC Sample: L2259414-06 Client ID: MS Sample												
Cyanide, Total	ND	10	11	110		10	96		75-125	10		35
General Chemistry - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1713699-4 QC Sample: L2259425-04 Client ID: EHS-SOD-C1												
Chromium, Hexavalent	ND	1460	1240	85		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1707429-1 QC Sample: L2259425-01 Client ID: EHS-SOD-1						
Solids, Total	72.5	73.1	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 04 QC Batch ID: WG1713699-6 QC Sample: L2259425-04 Client ID: EHS-SOD-C1						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2259425-01A	Vial MeOH preserved	A	NA		2.3	Y	Absent		NYTCL-8260HLW-R2(14)
L2259425-01B	Vial water preserved	A	NA		2.3	Y	Absent	25-OCT-22 04:33	NYTCL-8260HLW-R2(14)
L2259425-01C	Vial water preserved	A	NA		2.3	Y	Absent	25-OCT-22 04:33	NYTCL-8260HLW-R2(14)
L2259425-01D	Plastic 120ml unpreserved	A	NA		2.3	Y	Absent		TS(7)
L2259425-02A	Vial MeOH preserved	A	NA		2.3	Y	Absent		NYTCL-8260HLW-R2(14)
L2259425-02B	Vial water preserved	A	NA		2.3	Y	Absent	25-OCT-22 04:33	NYTCL-8260HLW-R2(14)
L2259425-02C	Vial water preserved	A	NA		2.3	Y	Absent	25-OCT-22 04:33	NYTCL-8260HLW-R2(14)
L2259425-02D	Plastic 120ml unpreserved	A	NA		2.3	Y	Absent		TS(7)
L2259425-03A	Vial MeOH preserved	A	NA		2.3	Y	Absent		NYTCL-8260HLW-R2(14)
L2259425-03B	Vial water preserved	A	NA		2.3	Y	Absent	25-OCT-22 04:33	NYTCL-8260HLW-R2(14)
L2259425-03C	Vial water preserved	A	NA		2.3	Y	Absent	25-OCT-22 04:33	NYTCL-8260HLW-R2(14)
L2259425-03D	Plastic 120ml unpreserved	A	NA		2.3	Y	Absent		TS(7)
L2259425-04A	Plastic 2oz unpreserved for TS	A	NA		2.3	Y	Absent		TS(7)
L2259425-04B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.3	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L2259425-04C	Glass 120ml/4oz unpreserved	A	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2259425-04D	Plastic 8oz unpreserved	A	NA		2.3	Y	Absent		HOLD-537(14),A2-NY-537-ISOTOPE(14)
L2259425-04E	Plastic 8oz unpreserved	A	NA		2.3	Y	Absent		HOLD-537(14),A2-NY-537-ISOTOPE(14)
L2259425-04F	Glass 500ml/16oz unpreserved	A	NA		2.3	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: EHS-SOD
Project Number: 2021-01

Lab Number: L2259425
Report Date: 11/21/22

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name: EHS-SOD
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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

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GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

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Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	EHS-SOD	**Lab Number:**	L2259425
Project Number:	2021-01	**Report Date:**	11/21/22

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 10/25/22

ALPHA Job #: L2259425

Client Information
Client: Sterling Env. Eng.
Address: 24 Wade Rd
Latham, NY 12110
Phone: 518-456-4900
Fax:
Email:

Project Information
Project Name: EHS - Sod
Project Location: Batavia, NY
Project # 2021-01
(Use Project name as Project #) ☐
Project Manager: M. Deyo / A. Millspaugh
ALPHAQuote #:

Turn-Around Time
Standard ☒ 10 days Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☒ EQuIS (4 File)
☐ Other

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☒ Other DER-10
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
andrew.millspaugh@sterlingenvironmental.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	DER-10 Total Metals, Total Hg, Cyanide	DER-10 Hex Chromium	DER-10 VOCs (8260)	DER-10 SVOCs (8270)	DER-10 Pest/Herbs (8081, 8151)	Total PCBs (8082)	Total Solids	PFAS/SPLP (537.1 mod)*	Sample Specific Comments	Total Bottle
94425-01	EHS-Sod-1	10/24/22	0825	Soil	AMC			X				X		*	4
-02	EHS-Sod-2	↓	0845	↓	↓			X				X			4
-03	EHS-Sod-3		0905					X				X			4
-04	EHS-Sod-C1		0920			X	X		X	X	X	X	X	*SPLP only if exceedances of guidelines	6

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other - Water

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	A	V	A	A	A	P	P
Preservative	A	A	B/F	A	A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
	10/24/22 1600	AAL	10/24/22 1600
	10/24/22 1616		10/25/22 0110

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Miranda Stelmach

From: Howe, Alexander <alexander.howe@wsp.com>
Sent: Tuesday, March 7, 2023 2:47 PM
To: Andrew Millspaugh; Schneider, Timothy A (DEC); Aron Krasnopoler; Amanda Castignetti; Bonsteel, Nicole M; Bogardus, Sara (HEALTH); david.pratt@dec.ny.gov; Aube, Rene P.; Glowark, Brandon; Krueger, Kevin D.; Whelan, Vincent; w.scott.mccartney@wsp.com; Surani, Shaun J (HEALTH)
Cc: Etter, Terry R.; Paul Brookner; Miranda Stelmach; Lawrence Endicott; Sutton, Scott; Kyle Cunningham; cyrs (cyrs@hunt-eas.com); Grasmeyer, Luke; Mike Dunn; Mike Fulkerson; Jordyn Confer
Subject: RE: NYSDEC #c808022 - DER-10 Request to Import Stone Dust

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic. If you suspect fraud, click "Phish Alert Report."

Hello Andrew,

We have reviewed your request to import 50 cubic yards of stone dust from Steele Cold Springs Pit, located in Corning, New York and find it appropriate documentation to proceed.

Regards,

Alex

Alexander Howe, PG
Senior Geologist

M+ 1 207-776-8242

From: Andrew Millspaugh <Andrew.Millspaugh@sterlingenvironmental.com>
Sent: Tuesday, February 28, 2023 11:34 AM
To: Schneider, Timothy A (DEC) <timothy.schneider@dec.ny.gov>; Howe, Alexander <alexander.howe@woodplc.com>; akrasnopoler@geosyntec.com; Amanda Castignetti <Amanda.Castignetti@SterlingEnvironmental.com>; Bonsteel, Nicole M <nicole.bonsteel2@woodplc.com>; Bogardus, Sara (HEALTH) <Sara.Bogardus@health.ny.gov>; Pratt, David (DEC) <david.pratt@dec.ny.gov>; Aube, Rene P. <rene.aube@woodplc.com>; Glowark, Brandon <brandon.glowark@woodplc.com>; Krueger, Kevin D. <Kevin.Krueger@unisys.com>; Whelan, Vincent <vincent.whelan@woodplc.com>; McCartney, W Scott <w.scott.mccartney@woodplc.com>; Surani, Shaun J (HEALTH) <Shaun.Surani@health.ny.gov>
Cc: Etter, Terry R. <terry.etter@unisys.com>; Paul Brookner <PBrookner@Geosyntec.com>; Miranda Stelmach <MStelmach@Geosyntec.com>; Lawrence Endicott <larry.endicott@keller-na.com>; Sutton, Scott <Scott.Sutton@keller-na.com>; Kyle Cunningham <kyle.cunningham@reconservices.com>; cyrs (cyrs@hunt-eas.com) <cyrs@hunt-eas.com>; grasmeyerl@hunt-eas.com; Mike Dunn <MDunn@buildwelliver.com>; Mike Fulkerson <mfulkerson@buildwelliver.com>; Jordyn Confer <jconfer@edgerinc.com>
Subject: NYSDEC #c808022 - DER-10 Request to Import Stone Dust

CAUTION: External email. Please do not click on links/attachments unless you know the content is genuine and safe.

Good Morning Tim,

On behalf of ECSD, attached is a request to import less than 50 CY of stone dust for use in the shot-put area.

Thanks,

Andrew M. Millspaugh, P.E.
Sterling Environmental Engineering, P.C.
Cell: (518) 573-4378
andrew.millspaugh@sterlingenvironmental.com
www.sterlingenvironmental.com

NOTICE: This communication and any attachments ("this message") may contain information which is privileged, confidential, proprietary or otherwise subject to restricted disclosure under applicable law. This message is for the sole use of the intended recipient(s). Any unauthorized use, disclosure, viewing, copying, alteration, dissemination or distribution of, or reliance on, this message is strictly prohibited. If you have received this message in error, or you are not an authorized or intended recipient, please notify the sender immediately by replying to this message, delete this message and all copies from your e-mail system and destroy any printed copies.

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NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 0-50 Stone Dust

If greater than 1000 cubic yards will be imported, enter volume to be imported: N/A

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? no

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Samples were collected from stone dust generated from a permitted mine, Steele Cold Springs Pit, owned by Edger Civil & Utility LLC, in Corning, New York. In accordance with DER-10 Table 5.4(e)10, one (1) grab sample was collected for VOC analyses, and one (1) composite sample was collected and analyzed for inorganics, SVOCs, PCBs, pesticides, herbicides and PFAS Compounds.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

None of the analyzed compounds were detected at concentrations above the DER-10 Appendix 5 allowable levels for Unrestricted Use. See the attached data table and analytical report for details.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Edger Civil & Utility LLC

Location where fill was obtained:

Steele Cold Springs Pit, Corning, New York

Identification of any state or local approvals as a fill source:

Mine ID #80380

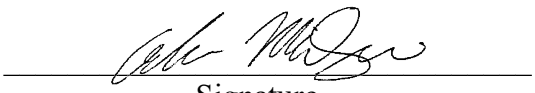
If no approvals are available, provide a brief history of the use of the property that is the fill source:

NA

Provide a list of supporting documentation included with this request:

Results Summary Table, Mine Permit, Laboratory Analytical Report

The information provided on this form is accurate and complete.



Signature

02/28/2023

Date

Andrew M. Millspaugh, P.E.

Print Name

Sterling Environmental Engineering, P.C.

Firm

Table 1
Request to Import Stone Dust
Former Sperry Remediation Site - North Portion
Elmira, NY

ANALYTE	NY-DER10-UU (mg/kg)	EHS-SD-1 2/8/2023	EHS-SD-C1 2/8/2023
GENERAL CHEMISTRY			
Chromium, Trivalent	30	---	14.3 J
Chromium, Hexavalent	1	---	0.177 J
Cyanide, Total	27	---	0.23 U
Solids, Total	---	82.9	90.2
VOLATILE ORGANICS BY GC/MS			
1,1,1-Trichloroethane	0.68	0.00017 U	---
1,1-Dichloroethane	0.27	0.00015 U	---
1,1-Dichloroethene	0.33	0.00024 U	---
1,2,4-Trimethylbenzene	3.6	0.00034 U	---
1,2-Dichlorobenzene	1.1	0.00015 U	---
1,2-Dichloroethane	0.02	0.00026 U	---
1,3,5-Trimethylbenzene	8.4	0.0002 U	---
1,3-Dichlorobenzene	2.4	0.00015 U	---
1,4-Dichlorobenzene	1.8	0.00018 U	---
1,4-Dioxane	0.1	0.036 U	---
2-Butanone	0.12	0.0023 U	---
Acetone	0.05	0.0049 U	---
Benzene	0.06	0.00017 U	---
Carbon tetrachloride	0.76	0.00024 U	---
Chlorobenzene	1.1	0.00013 U	---
Chloroform	0.37	0.00014 U	---
cis-1,2-Dichloroethene	0.25	0.00018 U	---
Ethylbenzene	1	0.00014 U	---
Methyl tert butyl ether	0.93	0.00021 U	---
Methylene chloride	0.05	0.0024 U	---
n-Butylbenzene	12	0.00017 U	---
n-Propylbenzene	3.9	0.00018 U	---
o-Xylene	---	0.0003 U	---
p/m-Xylene	---	0.00057 U	---
sec-Butylbenzene	11	0.00015 U	---
tert-Butylbenzene	5.9	0.00012 U	---
Tetrachloroethene	1.3	0.0002 U	---
Toluene	0.7	0.00056 U	---
trans-1,2-Dichloroethene	0.19	0.00014 U	---
Trichloroethene	0.47	0.00014 U	---
Vinyl chloride	0.02	0.00034 U	---
PERFLUORINATED ALKYL ACIDS BY ISOTOPE DILUTION			
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	---	---	0.000305 U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	---	---	0.000191 U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	---	---	0.00009 U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	---	---	0.000214 U
Perfluorobutanesulfonic Acid (PFBS)	---	---	0.000042 U
Perfluorobutanoic Acid (PFBA)	---	---	0.000024 U
Perfluorodecanesulfonic Acid (PFDS)	---	---	0.000163 U
Perfluorodecanoic Acid (PFDA)	---	---	0.000071 U
Perfluorododecanoic Acid (PFDoA)	---	---	0.000074 U
Perfluoroheptanesulfonic Acid (PFHpS)	---	---	0.000145 U
Perfluoroheptanoic Acid (PFHpA)	---	---	0.000048 U

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Table 1
Request to Import Stone Dust
Former Sperry Remediation Site - North Portion
Elmira, NY

ANALYTE	NY-DER10-UU (mg/kg)	EHS-SD-1 2/8/2023	EHS-SD-C1 2/8/2023
Perfluorohexanesulfonic Acid (PFHxS)	---	---	0.000064 U
Perfluorohexanoic Acid (PFHxA)	---	---	0.000056 U
Perfluorononanoic Acid (PFNA)	---	---	0.00008 U
Perfluorooctanesulfonamide (FOSA)	---	---	0.000104 U
Perfluorooctanesulfonic Acid (PFOS)	0.00066	---	0.000138 U
Perfluorooctanoic Acid (PFOA)	0.00088	---	0.000045 U
Perfluoropentanoic Acid (PFPeA)	---	---	0.000049 U
Perfluorotetradecanoic Acid (PFTA)	---	---	0.000057 U
Perfluorotridecanoic Acid (PFTrDA)	---	---	0.000217 U
Perfluoroundecanoic Acid (PFUnA)	---	---	0.00005 U
PFOA/PFOS, Total	---	---	ND
SEMIVOLATILE ORGANICS BY GC/MS			
1,4-Dioxane	0.1	---	0.024 U
2-Methylphenol	0.33	---	0.082 U
3-Methylphenol/4-Methylphenol	0.33	---	0.082 U
Acenaphthene	20	---	0.054 U
Acenaphthylene	100	---	0.081 U
Anthracene	100	---	0.1 U
Benzo(a)anthracene	1	---	0.059 U
Benzo(a)pyrene	1	---	0.13 U
Benzo(b)fluoranthene	1	---	0.088 U
Benzo(ghi)perylene	100	---	0.062 U
Benzo(k)fluoranthene	0.8	---	0.084 U
Chrysene	1	---	0.055 U
Dibenzo(a,h)anthracene	0.33	---	0.061 U
Dibenzofuran	7	---	0.05 U
Fluoranthene	100	---	0.06 U
Fluorene	30	---	0.051 U
Hexachlorobenzene	0.33	---	0.059 U
Indeno(1,2,3-cd)pyrene	0.5	---	0.073 U
Naphthalene	12	---	0.064 U
Pentachlorophenol	0.8	---	0.12 U
Phenanthrene	100	---	0.064 U
Phenol	0.33	---	0.079 U
Pyrene	100	---	0.052 U
CHLORINATED HERBICIDES BY GC			
2,4,5-TP (Silvex)	3.8	---	0.00478 U
ORGANOCHLORINE PESTICIDES BY GC			
4,4'-DDD	0.0033	---	0.000626 U
4,4'-DDE	0.0033	---	0.000406 U
4,4'-DDT	0.0033	---	0.00141 U
Aldrin	0.005	---	0.000618 U
Alpha-BHC	0.02	---	0.000208 U
Beta-BHC	0.036	---	0.000666 U
cis-Chlordane	0.094	---	0.000612 U
Delta-BHC	0.04	---	0.000344 U
Dieldrin	0.005	---	0.000549 U
Endosulfan I	2.4	---	0.000415 U
Endosulfan II	2.4	---	0.000587 U

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Table 1
Request to Import Stone Dust
Former Sperry Remediation Site - North Portion
Elmira, NY

ANALYTE	NY-DER10-UU (mg/kg)	EHS-SD-1 2/8/2023	EHS-SD-C1 2/8/2023
Endosulfan sulfate	2.4	---	0.000348 U
Endrin	0.014	---	0.0003 U
Heptachlor	0.042	---	0.000394 U
Lindane	0.1	---	0.000327 U
POLYCHLORINATED BIPHENYLS BY GC			
Aroclor 1016	0.1	---	0.00317 U
Aroclor 1221	0.1	---	0.00358 U
Aroclor 1232	0.1	---	0.00757 U
Aroclor 1242	0.1	---	0.00481 U
Aroclor 1248	0.1	---	0.00535 U
Aroclor 1254	0.1	---	0.0039 U
Aroclor 1260	0.1	---	0.0066 U
Aroclor 1262	0.1	---	0.00453 U
Aroclor 1268	0.1	---	0.0037 U
PCBs, Total	0.1	---	ND
TOTAL METALS			
Arsenic, Total	13	---	4.79
Barium, Total	350	---	62.3
Beryllium, Total	7.2	---	0.024 J
Cadmium, Total	2.5	---	0.057 J
Chromium, Total	---	---	14.5
Copper, Total	50	---	13.1
Lead, Total	63	---	7.26
Manganese, Total	1600	---	439
Mercury, Total	0.18	---	0.046 U
Nickel, Total	30	---	8.48
Selenium, Total	3.9	---	0.108 U
Silver, Total	2	---	0.119 U
Zinc, Total	109	---	47.7

Notes:
NY-DER10-UU - New York DER-10 Unrestricted Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10 May 3, 2010.
PFOA and PFOS standards from NYSDEC Sampling, Analysis, and Assessment of Per and Polyfluoroalkyl Substances Under NYSDEC Part 375 Remedial Programs, November 2022.
Value in **BOLD** indicates an exceedance of applicable standard or guidance value.
U - Sample concentration was not detected (ND) at or above the reporting limit.
J - Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate
--- No standard or not measured.

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The New York State
Department of Environmental Conservation
has issued a

MINING PERMIT

pursuant to the Environmental Conservation Law for the mining operation being conducted on this site. For more information regarding the nature and extent of work approved, contact the Mined Land Reclamation Specialist shown below. Please refer to the mine file number shown when contacting the DEC.

Mine File Number 80380 **Permit Expiration Date** 10/5/26

DEC Contact Steve Army

Phone Number (585) 226-5372

NOTE: THIS IS NOT A PERMIT

ML-1

PERMIT

Under the Environmental Conservation Law (ECL)

Permittee and Facility Information

Permit Issued To:
EDGER CIVIL & UTILITY LLC
330 E 14TH ST
ELMIRA, NY 14903
(607) 481-0764

Facility:
STEELE COLD SPRINGS PIT
ST RT 352 - N SIDE|I86 - S SIDE
CORNING, NY

Facility Location: in CORNING in STEUBEN COUNTY
Facility Principal Reference Point: NYTM-E: 337.24 NYTM-N: 4666.2
Latitude: 42°07'51.7" Longitude: 76°58'09.4"
Project Location: St Rte 352 N Side - S of I86
Authorized Activity:
Permit to mine unconsolidated material from a 15.2 acre permit term area within a 50.6 acre Life of Mine. Approved operations include screening.

Modification #1: This Modification is for transfer.

Permit Authorizations

Mined Land Reclamation - Under Article 23, Title 27
Permit ID 8-4638-00002/00001 (Mined Land ID 80380)

Renewal	Effective Date: 12/6/2021	Expiration Date: 12/5/2026
Modification # 1	Effective Date: 10/5/2022	Expiration Date: 12/5/2026

NYSDEC Approval

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.

Permit Administrator: STEVEN M ARMY, Deputy Regional Permit Administrator
Address: NYSDEC Region 8 Headquarters
6274 E Avon-Lima Rd
Avon, NY 14414

Authorized Signature: _____ Date 10/5/2022

Distribution List

ANALYTICAL REPORT

Lab Number:	L2306961
Client:	Sterling Environmental Engineering 24 Wade Road Latham, NY 12110
ATTN:	Andrew Millspaugh
Phone:	(518) 456-4900
Project Name:	EHS-CAPITAL IMPROVEMENTS
Project Number:	2021-01
Report Date:	02/22/23

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0574), IL (200077), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #P330-17-00196).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2306961
Report Date: 02/22/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2306961-01	EHS-SD-C1	SOIL	ELMIRA, NY	02/08/23 12:00	02/08/23
L2306961-02	EHS-SD-1	SOIL	ELMIRA, NY	02/08/23 11:55	02/08/23

Project Name:	EHS-CAPITAL IMPROVEMENTS	**Lab Number:**	L2306961
Project Number:	2021-01	**Report Date:**	02/22/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	EHS-CAPITAL IMPROVEMENTS	**Lab Number:**	L2306961
Project Number:	2021-01	**Report Date:**	02/22/23

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Volatile Organics

L2306961-02: The sample was received in appropriate containers (vials) for the Volatile Organics by EPA Method 5035/8260 analysis; however, they could not be used for analysis. With the client's authorization, a sample aliquot was taken from an unpreserved container (inappropriate plastic) and preserved appropriately. Any reported concentrations that are below 200 ug/kg may be biased low due to the sample not being collected according to 5035-L/5035A-L low-level specifications.

Semivolatile Organics

L2306961-01: The sample has elevated detection limits due to the limited sample volume utilized during extraction, as required by the sample matrix.

Perfluorinated Alkyl Acids by Isotope Dilution

L2306961-01 and WG1743732-3: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

L2306961-01, WG1743732-1, WG1743732-2, and WG1743732-3: The MeOH fraction of the extraction is reported for perfluorooctanesulfonamide (fosa) due to better extraction efficiency of the perfluoro[13c8]octanesulfonamide (m8fosa) Extracted Internal Standard.

The WG1743732-3 MS recovery, performed on L2306961-01, is outside the acceptance criteria for perfluorotridecanoic acid (pftrda) (157%).

Hexavalent Chromium

The WG1747127-2 LCS recovery for chromium, hexavalent (78%), associated with L2306961-01, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original

Project Name:	EHS-CAPITAL IMPROVEMENTS	**Lab Number:**	L2306961
Project Number:	2021-01	**Report Date:**	02/22/23

Case Narrative (continued)

analyses are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Michelle M. Morris

Title: Technical Director/Representative Date: 02/22/23

ORGANICS

VOLATILES

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2306961

Project Number: 2021-01 **Report Date:** 02/22/23

SAMPLE RESULTS

Lab ID: L2306961-02
Client ID: EHS-SD-1
Sample Location: ELMIRA, NY

Date Collected: 02/08/23 11:55
Date Received: 02/08/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 02/21/23 16:29
Analyst: JIC
Percent Solids: 89%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.1	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
Tetrachloroethene	ND		ug/kg	0.51	0.20	1
Chlorobenzene	ND		ug/kg	0.51	0.13	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.26	1
1,1,1-Trichloroethane	ND		ug/kg	0.51	0.17	1
Benzene	ND		ug/kg	0.51	0.17	1
Toluene	ND		ug/kg	1.0	0.56	1
Ethylbenzene	ND		ug/kg	1.0	0.14	1
Vinyl chloride	ND		ug/kg	1.0	0.34	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.51	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.21	1
p/m-Xylene	ND		ug/kg	2.0	0.57	1
o-Xylene	ND		ug/kg	1.0	0.30	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Acetone	ND		ug/kg	10	4.9	1
2-Butanone	ND		ug/kg	10	2.3	1
n-Butylbenzene	ND		ug/kg	1.0	0.17	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
n-Propylbenzene	ND		ug/kg	1.0	0.18	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2306961

Project Number: 2021-01 **Report Date:** 02/22/23

SAMPLE RESULTS

Lab ID: L2306961-02 Date Collected: 02/08/23 11:55

Client ID: EHS-SD-1 Date Received: 02/08/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.34	1
1,4-Dioxane	ND		ug/kg	82	36.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	117		70-130
Dibromofluoromethane	90		70-130

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2306961

Project Number: 2021-01 **Report Date:** 02/22/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/21/23 15:37
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02 Batch: WG1747305-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Vinyl chloride	ND		ug/kg	1.0	0.34
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Acetone	ND		ug/kg	10	4.8
2-Butanone	ND		ug/kg	10	2.2
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2306961

Project Number: 2021-01 **Report Date:** 02/22/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 02/21/23 15:37
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 02 Batch: WG1747305-5					
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	105		70-130
Toluene-d8	108		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	87		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2306961
Report Date: 02/22/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02 Batch: WG1747305-3 WG1747305-4								
Methylene chloride	80		80		70-130	0		30
1,1-Dichloroethane	100		99		70-130	1		30
Chloroform	87		87		70-130	0		30
Carbon tetrachloride	89		87		70-130	2		30
Tetrachloroethene	92		90		70-130	2		30
Chlorobenzene	92		91		70-130	1		30
1,2-Dichloroethane	89		90		70-130	1		30
1,1,1-Trichloroethane	92		91		70-130	1		30
Benzene	95		94		70-130	1		30
Toluene	96		96		70-130	0		30
Ethylbenzene	100		99		70-130	1		30
Vinyl chloride	82		83		67-130	1		30
1,1-Dichloroethene	92		89		65-135	3		30
trans-1,2-Dichloroethene	88		86		70-130	2		30
Trichloroethene	91		89		70-130	2		30
1,2-Dichlorobenzene	90		91		70-130	1		30
1,3-Dichlorobenzene	92		93		70-130	1		30
1,4-Dichlorobenzene	92		92		70-130	0		30
Methyl tert butyl ether	95		96		66-130	1		30
p/m-Xylene	97		97		70-130	0		30
o-Xylene	98		98		70-130	0		30
cis-1,2-Dichloroethene	86		85		70-130	1		30
Acetone	98		105		54-140	7		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2306961
Report Date: 02/22/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 02 Batch: WG1747305-3 WG1747305-4								
2-Butanone	112		116		70-130	4		30
n-Butylbenzene	113		112		70-130	1		30
sec-Butylbenzene	108		108		70-130	0		30
tert-Butylbenzene	101		102		70-130	1		30
n-Propylbenzene	111		112		70-130	1		30
1,3,5-Trimethylbenzene	102		103		70-130	1		30
1,2,4-Trimethylbenzene	100		101		70-130	1		30
1,4-Dioxane	91		93		65-136	2		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	103		104		70-130
Toluene-d8	108		109		70-130
4-Bromofluorobenzene	112		115		70-130
Dibromofluoromethane	90		91		70-130

SEMIVOLATILES

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2306961

Project Number: 2021-01 **Report Date:** 02/22/23

SAMPLE RESULTS

Lab ID: L2306961-01
Client ID: EHS-SD-C1
Sample Location: ELMIRA, NY

Date Collected: 02/08/23 12:00
Date Received: 02/08/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 02/22/23 11:47
Analyst: LJG
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 02/18/23 18:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	420	54.	1
Hexachlorobenzene	ND		ug/kg	320	59.	1
Fluoranthene	ND		ug/kg	320	60.	1
Naphthalene	ND		ug/kg	520	64.	1
Benzo(a)anthracene	ND		ug/kg	320	59.	1
Benzo(a)pyrene	ND		ug/kg	420	130	1
Benzo(b)fluoranthene	ND		ug/kg	320	88.	1
Benzo(k)fluoranthene	ND		ug/kg	320	84.	1
Chrysene	ND		ug/kg	320	55.	1
Acenaphthylene	ND		ug/kg	420	81.	1
Anthracene	ND		ug/kg	320	100	1
Benzo(ghi)perylene	ND		ug/kg	420	62.	1
Fluorene	ND		ug/kg	520	51.	1
Phenanthrene	ND		ug/kg	320	64.	1
Dibenzo(a,h)anthracene	ND		ug/kg	320	61.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	420	73.	1
Pyrene	ND		ug/kg	320	52.	1
Dibenzofuran	ND		ug/kg	520	50.	1
Pentachlorophenol	ND		ug/kg	420	120	1
Phenol	ND		ug/kg	520	79.	1
2-Methylphenol	ND		ug/kg	520	82.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	760	82.	1
1,4-Dioxane	ND		ug/kg	79	24.	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2306961

Project Number: 2021-01 **Report Date:** 02/22/23

SAMPLE RESULTS

Lab ID: L2306961-01 Date Collected: 02/08/23 12:00

Client ID: EHS-SD-C1 Date Received: 02/08/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	79		25-120
Phenol-d6	85		10-120
Nitrobenzene-d5	86		23-120
2-Fluorobiphenyl	87		30-120
2,4,6-Tribromophenol	65		10-136
4-Terphenyl-d14	83		18-120

Project Name: EHS-CAPITAL IMPROVEMENTS
Lab Number: L2306961
Project Number: 2021-01
Report Date: 02/22/23

SAMPLE RESULTS

Lab ID: L2306961-01
Client ID: EHS-SD-C1
Sample Location: ELMIRA, NY

Date Collected: 02/08/23 12:00
Date Received: 02/08/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/14/23 07:12
Analyst: AC
Percent Solids: 90%

Extraction Method: ALPHA 23528
Extraction Date: 02/13/23 07:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.532	0.024	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.532	0.049	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.266	0.042	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.532	0.056	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.266	0.048	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.266	0.064	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.266	0.045	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.532	0.191	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.532	0.145	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.266	0.080	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.266	0.138	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.266	0.071	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.532	0.305	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.532	0.214	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.532	0.050	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.532	0.163	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.532	0.090	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.532	0.074	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.532	0.217	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.532	0.057	1
PFOA/PFOS, Total	ND		ng/g	0.266	0.045	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2306961

Project Number: 2021-01 **Report Date:** 02/22/23

SAMPLE RESULTS

Lab ID: L2306961-01 Date Collected: 02/08/23 12:00

Client ID: EHS-SD-C1 Date Received: 02/08/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	65		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	66		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	74		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	**58**	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	**59**	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	**75**	Q	78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	**66**	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	73		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	**61**	Q	72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	**68**	Q	79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	**65**	Q	75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	74		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	32		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	70		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**28**	Q	34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	60		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	**16**	Q	24-159

Project Name: EHS-CAPITAL IMPROVEMENTS
Lab Number: L2306961
Project Number: 2021-01
Report Date: 02/22/23

SAMPLE RESULTS

Lab ID: L2306961-01
Client ID: EHS-SD-C1
Sample Location: ELMIRA, NY

Date Collected: 02/08/23 12:00
Date Received: 02/08/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/14/23 22:40
Analyst: JW
Percent Solids: 90%

Extraction Method: ALPHA 23528
Extraction Date: 02/13/23 07:55

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.532	0.104	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	88		10-117

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2306961

Project Number: 2021-01 **Report Date:** 02/22/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/14/23 06:22
Analyst: AC

Extraction Method: ALPHA 23528
Extraction Date: 02/13/23 07:55

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01 Batch: WG1743732-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2306961

Project Number: 2021-01 **Report Date:** 02/22/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/14/23 06:22
Analyst: AC

Extraction Method: ALPHA 23528
Extraction Date: 02/13/23 07:55

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01 Batch: WG1743732-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	106		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	104		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	87		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	90		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	104		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	102		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	106		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	101		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	125		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	82		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	105		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	91		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	99		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	91		24-159

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2306961
Report Date: 02/22/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 02/14/23 22:28
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 02/13/23 07:55

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01 Batch: WG1743732-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	112		10-117

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2306961
Report Date: 02/22/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 02/21/23 08:18
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 02/18/23 18:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1746072-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Fluoranthene	ND		ug/kg	99	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Dibenzofuran	ND		ug/kg	160	16.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
1,4-Dioxane	ND		ug/kg	25	7.6

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2306961
Report Date: 02/22/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 02/21/23 08:18
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 02/18/23 18:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01 Batch: WG1746072-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	73		10-120
Nitrobenzene-d5	65		23-120
2-Fluorobiphenyl	70		30-120
2,4,6-Tribromophenol	55		10-136
4-Terphenyl-d14	69		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2306961
Report Date: 02/22/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 Batch: WG1743732-2								
Perfluorobutanoic Acid (PFBA)	101		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	100		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	102		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	102		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	104		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	128		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	98		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	121		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	107		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	108		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	117		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	104		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	120		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	118		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	96		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	107		-		59-134	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	105		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	97		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	132		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	116		-		69-133	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2306961

Report Date: 02/22/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 Batch: WG1743732-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	89				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	90				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	90				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	76				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	78				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	91				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	87				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	97				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	80				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	88				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	84				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	104				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	77				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	89				61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	79				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	85				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	79				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2306961

Report Date: 02/22/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 Batch: WG1743732-2								
Perfluorooctanesulfonamide (FOSA)	104		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	92				10-117

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2306961
Report Date: 02/22/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1746072-2 WG1746072-3								
Acenaphthene	69		78		31-137	12		50
Hexachlorobenzene	68		76		40-140	11		50
Fluoranthene	73		82		40-140	12		50
Naphthalene	67		80		40-140	18		50
Benzo(a)anthracene	71		80		40-140	12		50
Benzo(a)pyrene	77		85		40-140	10		50
Benzo(b)fluoranthene	74		81		40-140	9		50
Benzo(k)fluoranthene	71		82		40-140	14		50
Chrysene	67		77		40-140	14		50
Acenaphthylene	74		86		40-140	15		50
Anthracene	70		80		40-140	13		50
Benzo(ghi)perylene	69		79		40-140	14		50
Fluorene	71		83		40-140	16		50
Phenanthrene	71		77		40-140	8		50
Dibenzo(a,h)anthracene	70		81		40-140	15		50
Indeno(1,2,3-cd)pyrene	81		91		40-140	12		50
Pyrene	73		80		35-142	9		50
Dibenzofuran	71		81		40-140	13		50
Pentachlorophenol	63		74		17-109	16		50
Phenol	68		82		26-90	19		50
2-Methylphenol	68		83		30-130.	20		50
3-Methylphenol/4-Methylphenol	72		84		30-130	15		50
1,4-Dioxane	46		52		40-140	12		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2306961
Report Date: 02/22/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01 Batch: WG1746072-2 WG1746072-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		84		25-120
Phenol-d6	69		84		10-120
Nitrobenzene-d5	62		74		23-120
2-Fluorobiphenyl	69		81		30-120
2,4,6-Tribromophenol	69		79		10-136
4-Terphenyl-d14	69		78		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2306961

Report Date: 02/22/23

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1743732-3 QC Sample: L2306961-01 Client ID: EHS-SD-C1												
Perfluorobutanoic Acid (PFBA)	ND	5.19	5.07	98		-	-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	ND	5.19	5.15	99		-	-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.61	4.57	99		-	-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	ND	5.19	5.24	101		-	-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.19	5.22	101		-	-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.75	5.85	123		-	-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	ND	5.19	4.84	93		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.94	5.86	119		-	-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.95	5.58	113		-	-		70-132	-		30
Perfluorononanoic Acid (PFNA)	ND	5.19	5.47	105		-	-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	ND	4.82	5.78	120		-	-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	ND	5.19	5.14	99		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.98	5.67	114		-	-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.19	6.73	130		-	-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.19	5.15	99		-	-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.02	5.26	105		-	-		59-134	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.19	6.47	125		-	-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	ND	5.19	5.55	107		-	-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	ND	5.19	8.13	**157**	Q	-	-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.19	5.95	115		-	-		69-133	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2306961

Report Date: 02/22/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1743732-3 QC Sample: L2306961-01 Client ID: EHS-SD-C1												

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	79				19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	77				20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	**29**	Q			34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	35				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	66				61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	**69**	Q			75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	**59**	Q			66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	**61**	Q			71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	**74**	Q			78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	56				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	**19**	Q			24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	68				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	69				58-150
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	**68**	Q			79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	**71**	Q			75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	**65**	Q			72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	75				74-139

Matrix Spike Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2306961

Report Date: 02/22/23

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1743732-3 QC Sample: L2306961-01 Client ID: EHS-SD-C1												
Perfluorooctanesulfonamide (FOSA)	ND	5.19	4.90	94		-	-		67-137	-		30

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	88				10-117

Lab Duplicate Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2306961
Report Date: 02/22/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1743732-4 QC Sample: L2307370-01 Client ID: DUP Sample						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/g	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/g	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/g	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/g	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/g	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/g	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/g	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/g	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/g	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/g	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/g	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/g	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/g	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/g	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/g	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/g	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/g	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2306961
Report Date: 02/22/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1743732-4 QC Sample: L2307370-01 Client ID: DUP Sample						
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/g	NC		30
PFAS, Total (6)	ND	ND	ng/g	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	71		70		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	73		71		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	90		94		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	**62**	Q	**63**	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	**68**	Q	**69**	Q	71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	89		95		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	81		83		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	106		117		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	75		82		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	87		93		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	77		83		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	132		140		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	79		81		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	88		91		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	83		87		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	83		94		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	98		101		24-159

Lab Duplicate Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2306961
Report Date: 02/22/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1743732-4 QC Sample: L2307370-01 Client ID: DUP Sample						
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/g	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	88		96		10-117

PCBS

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2306961

Project Number: 2021-01 **Report Date:** 02/22/23

SAMPLE RESULTS

Lab ID: L2306961-01
Client ID: EHS-SD-C1
Sample Location: ELMIRA, NY

Date Collected: 02/08/23 12:00
Date Received: 02/08/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 02/19/23 16:35
Analyst: MEO
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 02/18/23 21:10
Cleanup Method: EPA 3665A
Cleanup Date: 02/19/23
Cleanup Method: EPA 3660B
Cleanup Date: 02/19/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	35.7	3.17	1	A
Aroclor 1221	ND		ug/kg	35.7	3.58	1	A
Aroclor 1232	ND		ug/kg	35.7	7.57	1	A
Aroclor 1242	ND		ug/kg	35.7	4.81	1	A
Aroclor 1248	ND		ug/kg	35.7	5.35	1	A
Aroclor 1254	ND		ug/kg	35.7	3.90	1	A
Aroclor 1260	ND		ug/kg	35.7	6.60	1	A
Aroclor 1262	ND		ug/kg	35.7	4.53	1	A
Aroclor 1268	ND		ug/kg	35.7	3.70	1	A
PCBs, Total	ND		ug/kg	35.7	3.17	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		30-150	A
Decachlorobiphenyl	56		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	57		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2306961
Report Date: 02/22/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 02/19/23 14:54
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 02/18/23 21:10
Cleanup Method: EPA 3665A
Cleanup Date: 02/19/23
Cleanup Method: EPA 3660B
Cleanup Date: 02/19/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01 Batch: WG1746080-1						
Aroclor 1016	ND		ug/kg	32.7	2.90	A
Aroclor 1221	ND		ug/kg	32.7	3.28	A
Aroclor 1232	ND		ug/kg	32.7	6.93	A
Aroclor 1242	ND		ug/kg	32.7	4.41	A
Aroclor 1248	ND		ug/kg	32.7	4.90	A
Aroclor 1254	ND		ug/kg	32.7	3.58	A
Aroclor 1260	ND		ug/kg	32.7	6.04	A
Aroclor 1262	ND		ug/kg	32.7	4.15	A
Aroclor 1268	ND		ug/kg	32.7	3.39	A
PCBs, Total	ND		ug/kg	32.7	2.90	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	73		30-150	B
Decachlorobiphenyl	61		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2306961

Report Date: 02/22/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01 Batch: WG1746080-2 WG1746080-3									
Aroclor 1016	55		65		40-140	17		50	A
Aroclor 1260	47		52		40-140	10		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		69		30-150	A
Decachlorobiphenyl	54		60		30-150	A
2,4,5,6-Tetrachloro-m-xylene	62		70		30-150	B
Decachlorobiphenyl	50		59		30-150	B

PESTICIDES

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2306961

Project Number: 2021-01 **Report Date:** 02/22/23

SAMPLE RESULTS

Lab ID: L2306961-01
Client ID: EHS-SD-C1
Sample Location: ELMIRA, NY

Date Collected: 02/08/23 12:00
Date Received: 02/08/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 02/21/23 16:33
Analyst: AAR
Percent Solids: 90%

Extraction Method: EPA 3546
Extraction Date: 02/19/23 00:36
Cleanup Method: EPA 3620B
Cleanup Date: 02/19/23
Cleanup Method: EPA 3660B
Cleanup Date: 02/21/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.76	0.344	1	A
Lindane	ND		ug/kg	0.732	0.327	1	A
Alpha-BHC	ND		ug/kg	0.732	0.208	1	A
Beta-BHC	ND		ug/kg	1.76	0.666	1	A
Heptachlor	ND		ug/kg	0.878	0.394	1	A
Aldrin	ND		ug/kg	1.76	0.618	1	A
Endrin	ND		ug/kg	0.732	0.300	1	A
Dieldrin	ND		ug/kg	1.10	0.549	1	A
4,4'-DDE	ND		ug/kg	1.76	0.406	1	A
4,4'-DDD	ND		ug/kg	1.76	0.626	1	A
4,4'-DDT	ND		ug/kg	1.76	1.41	1	A
Endosulfan I	ND		ug/kg	1.76	0.415	1	A
Endosulfan II	ND		ug/kg	1.76	0.587	1	A
Endosulfan sulfate	ND		ug/kg	0.732	0.348	1	A
cis-Chlordane	ND		ug/kg	2.20	0.612	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	82		30-150	A
Decachlorobiphenyl	97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	93		30-150	B
Decachlorobiphenyl	80		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Lab Number: L2306961
Project Number: 2021-01
Report Date: 02/22/23

SAMPLE RESULTS

Lab ID: L2306961-01
Client ID: EHS-SD-C1
Sample Location: ELMIRA, NY

Date Collected: 02/08/23 12:00
Date Received: 02/08/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 02/15/23 12:24
Analyst: MMG
Percent Solids: 90%
Methylation Date: 02/14/23 20:14

Extraction Method: EPA 8151A
Extraction Date: 02/13/23 16:23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	180	4.78	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	88		30-150	A
DCAA	75		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2306961
Report Date: 02/22/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 02/15/23 07:28
Analyst: MMG

Extraction Method: EPA 8151A
Extraction Date: 02/13/23 16:23

Methylation Date: 02/14/23 20:14

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01 Batch: WG1743998-1						
2,4,5-TP (Silvex)	ND		ug/kg	162	4.31	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	85		30-150	A
DCAA	78		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2306961
Report Date: 02/22/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 02/20/23 15:17
Analyst: EJL

Extraction Method: EPA 3546
Extraction Date: 02/18/23 23:42
Cleanup Method: EPA 3620B
Cleanup Date: 02/19/23
Cleanup Method: EPA 3660B
Cleanup Date: 02/20/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01 Batch: WG1746083-1						
Delta-BHC	ND		ug/kg	1.57	0.308	A
Lindane	ND		ug/kg	0.654	0.292	A
Alpha-BHC	ND		ug/kg	0.654	0.186	A
Beta-BHC	ND		ug/kg	1.57	0.596	A
Heptachlor	ND		ug/kg	0.785	0.352	A
Aldrin	ND		ug/kg	1.57	0.553	A
Endrin	ND		ug/kg	0.654	0.268	A
Dieldrin	ND		ug/kg	0.982	0.491	A
4,4'-DDE	ND		ug/kg	1.57	0.363	A
4,4'-DDD	ND		ug/kg	1.57	0.560	A
4,4'-DDT	ND		ug/kg	1.57	1.26	A
Endosulfan I	ND		ug/kg	1.57	0.371	A
Endosulfan II	ND		ug/kg	1.57	0.525	A
Endosulfan sulfate	ND		ug/kg	0.654	0.312	A
cis-Chlordane	ND		ug/kg	1.96	0.547	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		30-150	A
Decachlorobiphenyl	94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	87		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2306961

Report Date: 02/22/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1743998-2 WG1743998-3									
2,4,5-TP (Silvex)	79		78		30-150	1		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	98		95		30-150	A
DCAA	93		90		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2306961
Report Date: 02/22/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01 Batch: WG1746083-2 WG1746083-3									
Delta-BHC	92		94		30-150	2		30	A
Lindane	91		93		30-150	2		30	A
Alpha-BHC	89		90		30-150	1		30	A
Beta-BHC	85		93		30-150	9		30	A
Heptachlor	103		105		30-150	2		30	A
Aldrin	76		78		30-150	3		30	A
Endrin	89		92		30-150	3		30	A
Dieldrin	88		90		30-150	2		30	A
4,4'-DDE	79		82		30-150	4		30	A
4,4'-DDD	113		118		30-150	4		30	A
4,4'-DDT	118		122		30-150	3		30	A
Endosulfan I	77		79		30-150	3		30	A
Endosulfan II	86		87		30-150	1		30	A
Endosulfan sulfate	64		67		30-150	5		30	A
cis-Chlordane	72		74		30-150	3		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	66		67		30-150	A
Decachlorobiphenyl	90		94		30-150	A
2,4,5,6-Tetrachloro-m-xylene	78		78		30-150	B
Decachlorobiphenyl	85		89		30-150	B

METALS

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2306961

Project Number: 2021-01 **Report Date:** 02/22/23

SAMPLE RESULTS

Lab ID: L2306961-01 Date Collected: 02/08/23 12:00

Client ID: EHS-SD-C1 Date Received: 02/08/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 90%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	4.79		mg/kg	0.420	0.087	1	02/10/23 11:03	02/13/23 17:56	EPA 3050B	1,6010D	EGW
Barium, Total	62.3		mg/kg	0.420	0.073	1	02/10/23 11:03	02/13/23 17:56	EPA 3050B	1,6010D	EGW
Beryllium, Total	0.024	J	mg/kg	0.210	0.014	1	02/10/23 11:03	02/13/23 17:56	EPA 3050B	1,6010D	EGW
Cadmium, Total	0.057	J	mg/kg	0.420	0.041	1	02/10/23 11:03	02/13/23 17:56	EPA 3050B	1,6010D	EGW
Chromium, Total	14.5		mg/kg	0.420	0.040	1	02/10/23 11:03	02/13/23 17:56	EPA 3050B	1,6010D	EGW
Copper, Total	13.1		mg/kg	0.420	0.108	1	02/10/23 11:03	02/13/23 17:56	EPA 3050B	1,6010D	EGW
Lead, Total	7.26		mg/kg	2.10	0.112	1	02/10/23 11:03	02/13/23 17:56	EPA 3050B	1,6010D	EGW
Manganese, Total	439		mg/kg	0.420	0.067	1	02/10/23 11:03	02/13/23 17:56	EPA 3050B	1,6010D	EGW
Mercury, Total	ND		mg/kg	0.071	0.046	1	02/10/23 11:22	02/17/23 00:50	EPA 7471B	1,7471B	DMB
Nickel, Total	8.48		mg/kg	1.05	0.102	1	02/10/23 11:03	02/13/23 17:56	EPA 3050B	1,6010D	EGW
Selenium, Total	ND		mg/kg	0.839	0.108	1	02/10/23 11:03	02/13/23 17:56	EPA 3050B	1,6010D	EGW
Silver, Total	ND		mg/kg	0.210	0.119	1	02/10/23 11:03	02/13/23 17:56	EPA 3050B	1,6010D	EGW
Zinc, Total	47.7		mg/kg	2.10	0.123	1	02/10/23 11:03	02/13/23 17:56	EPA 3050B	1,6010D	EGW
General Chemistry - Mansfield Lab											
Chromium, Trivalent	14.3	J	mg/kg	0.887	0.887	1		02/22/23 17:40	NA	107,-	

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2306961

Project Number: 2021-01 **Report Date:** 02/22/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1742850-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	02/10/23 11:03	02/13/23 16:03	1,6010D	EGW
Barium, Total	ND		mg/kg	0.400	0.070	1	02/10/23 11:03	02/13/23 16:03	1,6010D	EGW
Beryllium, Total	ND		mg/kg	0.200	0.013	1	02/10/23 11:03	02/13/23 16:03	1,6010D	EGW
Cadmium, Total	ND		mg/kg	0.400	0.039	1	02/10/23 11:03	02/13/23 16:03	1,6010D	EGW
Chromium, Total	ND		mg/kg	0.400	0.038	1	02/10/23 11:03	02/13/23 16:03	1,6010D	EGW
Copper, Total	ND		mg/kg	0.400	0.103	1	02/10/23 11:03	02/13/23 16:03	1,6010D	EGW
Lead, Total	ND		mg/kg	2.00	0.107	1	02/10/23 11:03	02/13/23 16:03	1,6010D	EGW
Manganese, Total	ND		mg/kg	0.400	0.064	1	02/10/23 11:03	02/13/23 16:03	1,6010D	EGW
Nickel, Total	ND		mg/kg	1.00	0.097	1	02/10/23 11:03	02/13/23 16:03	1,6010D	EGW
Selenium, Total	ND		mg/kg	0.800	0.103	1	02/10/23 11:03	02/13/23 16:03	1,6010D	EGW
Silver, Total	ND		mg/kg	0.200	0.113	1	02/10/23 11:03	02/13/23 16:03	1,6010D	EGW
Zinc, Total	ND		mg/kg	2.00	0.117	1	02/10/23 11:03	02/13/23 16:03	1,6010D	EGW

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01 Batch: WG1742851-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	02/10/23 11:22	02/14/23 17:15	1,7471B	DMB

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2306961

Report Date: 02/22/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1742850-2 SRM Lot Number: D116-540								
Arsenic, Total	105		-		82-119	-		
Barium, Total	104		-		82-118	-		
Beryllium, Total	112		-		82-118	-		
Cadmium, Total	115		-		82-118	-		
Chromium, Total	110		-		81-118	-		
Copper, Total	105		-		83-117	-		
Lead, Total	102		-		83-117	-		
Manganese, Total	103		-		82-118	-		
Nickel, Total	114		-		82-118	-		
Selenium, Total	113		-		78-122	-		
Silver, Total	107		-		79-121	-		
Zinc, Total	109		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01 Batch: WG1742851-2 SRM Lot Number: D116-540								
Mercury, Total	95		-		58-142	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2306961
Report Date: 02/22/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1742850-3 QC Sample: L2306948-01 Client ID: MS Sample												
Arsenic, Total	3.41	11	12.3	81		-	-		75-125	-		20
Barium, Total	12.7	184	181	92		-	-		75-125	-		20
Beryllium, Total	0.480	4.59	4.92	97		-	-		75-125	-		20
Cadmium, Total	ND	4.87	4.40	90		-	-		75-125	-		20
Chromium, Total	13.8	18.4	30.0	88		-	-		75-125	-		20
Copper, Total	25.6	23	35.6	**44**	Q	-	-		75-125	-		20
Lead, Total	10.7	48.7	55.1	91		-	-		75-125	-		20
Manganese, Total	21.8	45.9	60.2	84		-	-		75-125	-		20
Nickel, Total	6.28	45.9	45.6	86		-	-		75-125	-		20
Selenium, Total	ND	11	9.06	82		-	-		75-125	-		20
Silver, Total	ND	4.59	3.21	**70**	Q	-	-		75-125	-		20
Zinc, Total	1.84J	45.9	43.2	94		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1742851-3 QC Sample: L2306637-01 Client ID: MS Sample												
Mercury, Total	ND	1.46	1.48	101		-	-		80-120	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2306961

Report Date: 02/22/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1742850-4 QC Sample: L2306948-01 Client ID: DUP Sample						
Lead, Total	10.7	10.2	mg/kg	5		20
Total Metals - Mansfield Lab Associated sample(s): 01 QC Batch ID: WG1742851-4 QC Sample: L2306637-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2306961
Report Date: 02/22/23

SAMPLE RESULTS

Lab ID: L2306961-01
Client ID: EHS-SD-C1
Sample Location: ELMIRA, NY
Sample Depth:
Matrix: Soil

Date Collected: 02/08/23 12:00
Date Received: 02/08/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	90.2		%	0.100	NA	1	-	02/09/23 12:34	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.1	0.23	1	02/16/23 04:50	02/16/23 12:14	1,9010C/9012B	JER
Chromium, Hexavalent	0.177	J	mg/kg	0.887	0.177	1	02/21/23 23:35	02/22/23 17:40	1,7196A	WMT

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2306961
Report Date: 02/22/23

SAMPLE RESULTS

Lab ID: L2306961-02
Client ID: EHS-SD-1
Sample Location: ELMIRA, NY
Sample Depth:
Matrix: Soil

Date Collected: 02/08/23 11:55
Date Received: 02/08/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	89.2		%	0.100	NA	1	-	02/09/23 12:34	121,2540G	ROI

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2306961

Project Number: 2021-01 **Report Date:** 02/22/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1744675-1										
Cyanide, Total	ND		mg/kg	0.90	0.19	1	02/16/23 04:50	02/16/23 11:54	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1747127-1										
Chromium, Hexavalent	0.210	J	mg/kg	0.800	0.160	1	02/21/23 23:35	02/22/23 17:40	1,7196A	WMT

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2306961

Report Date: 02/22/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1744675-2 WG1744675-3								
Cyanide, Total	86		84		80-120	8		35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1747127-2								
Chromium, Hexavalent	**78**	Q	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2306961
Report Date: 02/22/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1744675-4 WG1744675-5 QC Sample: L2306961-01 Client ID: EHS-SD-C1												
Cyanide, Total	ND	11	11	100		10	97		75-125	10		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1747127-4 QC Sample: L2306961-01 Client ID: EHS-SD-C1												
Chromium, Hexavalent	0.177J	1250	1300	104		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2306961

Report Date: 02/22/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1742568-1 QC Sample: L2306785-21 Client ID: DUP Sample						
Solids, Total	93.5	93.3	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1747127-6 QC Sample: L2306961-01 Client ID: EHS-SD-C1						
Chromium, Hexavalent	0.177J	ND	mg/kg	NC		20

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2306961
Report Date: 02/22/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2306961-01A	Plastic 120ml unpreserved	A	NA		2.1	Y	Absent		TS(7)
L2306961-01B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.1	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),PB-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L2306961-01C	Glass 250ml/8oz unpreserved	A	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2306961-01D	Plastic 8oz unpreserved	A	NA		2.1	Y	Absent		A2-NY-537-ISOTOPE(90)
L2306961-01E	Plastic 8oz unpreserved	A	NA		2.1	Y	Absent		HOLD-537(14)
L2306961-01F	Glass 500ml/16oz unpreserved	A	NA		2.1	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2306961-02A	Vial MeOH preserved	A	NA		2.1	Y	Absent		NYTCL-8260HLW-R2(14)
L2306961-02B	Vial water preserved	A	NA		2.1	Y	Absent	09-FEB-23 07:59	NYTCL-8260HLW-R2(14)
L2306961-02C	Vial water preserved	A	NA		2.1	Y	Absent	09-FEB-23 07:59	NYTCL-8260HLW-R2(14)
L2306961-02D	Plastic 2oz unpreserved for TS	A	NA		2.1	Y	Absent		TS(7)

*Values in parentheses indicate holding time in days

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2306961
Report Date: 02/22/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2306961
Report Date: 02/22/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

Project Name:	EHS-CAPITAL IMPROVEMENTS	**Lab Number:**	L2306961
Project Number:	2021-01	**Report Date:**	02/22/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	EHS-CAPITAL IMPROVEMENTS	**Lab Number:**	L2306961
Project Number:	2021-01	**Report Date:**	02/22/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	EHS-CAPITAL IMPROVEMENTS	**Lab Number:**	L2306961
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Data Qualifiers

Identified Compounds (TICs).

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	EHS-CAPITAL IMPROVEMENTS	**Lab Number:**	L2306961
Project Number:	2021-01	**Report Date:**	02/22/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624/624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625/625.1: alpha-Terpineol
EPA 8260C/8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D/8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 2/9/23

ALPHA Job #: L2306961

Client Information
Client: Sterling Env. Eng.
Address: 24 Wade Rd
Latham, NY 12110
Phone: 518-456-4900
Fax:
Email:

Project Information
Project Name: EHS-Capital Improvements
Project Location: Elmira, NY
Project #: 2021-01
(Use Project name as Project #) ☐
Project Manager: M. Deyo / A. Millspaugh
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B CAT B.
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ~~☒ NY Part 375~~
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☒ Other DER-10
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
→andrew.millspaugh@sterlingenvironmental.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	DER-10 Total Metals Hg, Cyanide, Hex Cr	DER-10 VOCs (8260)	DER-10 SVOCs (8270)	DER-10 Pests/Herbs (8081, 8151)	Total PCBs (8082)	Total Solids	PFAS/SPLP* (537.1 mod)	Sample Specific Comments	Total Bottle
0609161-01	EHS-SD-C1	2/8/2023	1200	Soil	AMC	X	X	X	X	X	X	X	*SPLP only if exceedance of app guidelines* ~~recommended~~	6
-02	EHS-SD-1	2/8/2023	1155	Soil	AMC		X	X			X			4

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	A	A	A	A	P	P	
Preservative	A	NaOH	A	A	A	A	A	

Relinquished By:	Date/Time	Received By:	Date/Time
	2/8/23	Secured Storage	2/8/23
Secured Storage	2/8/23 21:40		2/8/23 21:40
	2/8/23 21:40		2/9/23 0030

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Miranda Stelmach

From: McCartney, W Scott <w.scott.mccartney@wsp.com>
Sent: Tuesday, September 12, 2023 10:24 AM
To: Andrew Millspaugh; Zappia, Kaleigh M (DEC); Howe, Alexander; Zappia, Kaleigh M (DEC); david.pratt@dec.ny.gov; Bogardus, Sara (HEALTH); Bonsteel, Nicole; Whelan, Vincent; haustin; Granato, Donald; Fizzano, Thomas
Cc: Etter, Terry R.; Aron Krasnopoler; Kaitlin Ouverson; Amanda McNally; Lawrence Endicott; Kyle Cunningham; Cyr, Scott; Amanda McNally; Amanda Castignetti; mdunn; Mike Fulkerson; Krueger, Kevin D.; Jen Huha; Miranda Stelmach
Subject: RE: NYSDEC #c808022 - ECSD Ballfield Products

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic. If you suspect fraud, click "Phish Alert Report."

Andrew,

We have reviewed the import request forms and attached analytical data for the baseball field products submitted per the July 20, 2023, Agency Request and the materials are **approved contingent** on acceptance by ECSD.

Thanks,

Scott

W. Scott McCartney, P.E.
Assistant Vice President

M+ 1 484-612-2070

WSP USA.
751 Arbor Way, Suite 180
Blue Bell, PA 19422
w.scott.mccartney@wsp.com
wsp.com

From: Andrew Millspaugh <Andrew.Millspaugh@sterlingenvironmental.com>
Sent: Thursday, September 7, 2023 12:57 PM
To: kaleigh.zappia@dec.ny.gov; Howe, Alexander <alexander.howe@wsp.com>; McCartney, W Scott <w.scott.mccartney@wsp.com>; Zappia, Kaleigh M (DEC) <Kaleigh.Zappia@dec.ny.gov>; Pratt, David (DEC) <david.pratt@dec.ny.gov>; Bogardus, Sara (HEALTH) <Sara.Bogardus@health.ny.gov>; Bonsteel, Nicole <nicole.bonsteel@wsp.com>; Whelan, Vincent <vincent.whelan@wsp.com>; haustin@elmiracityschools.com; Granato, Donald <donald.granato@wsp.com>; Fizzano, Thomas <thomas.fizzano@wsp.com>
Cc: Etter, Terry R. <terry.etter@unisys.com>; akrasnopoler@geosyntec.com; Kaitlin Ouverson

<KOuverson@Geosyntec.com>; Amanda McNally <AMcNally@Geosyntec.com>; Lawrence Endicott <larry.endicott@keller-na.com>; Kyle Cunningham <kyle.cunningham@reconservices.com>; Cyr, Scott <cyrs@hunt-eas.com>; Amanda McNally <AMcNally@Geosyntec.com>; Amanda Castignetti <Amanda.Castignetti@SterlingEnvironmental.com>; mdunn <mdunn@buildwelliver.com>; Mike Fulkerson <mfulkerson@buildwelliver.com>; Krueger, Kevin D. <Kevin.Krueger@unisys.com>; Jen Huha <JHuha@Geosyntec.com>; Miranda Stelmach <MStelmach@Geosyntec.com>
Subject: RE: NYSDEC #c808022 - ECSD Ballfield Products

Kaleigh,

On behalf of ECSD, please see the attached import request forms for products to be used on the ballfields. In accordance with the email below, one sample set was collected from each product.

Thanks,

Andrew M. Millspaugh, P.E.
Sterling Environmental Engineering, P.C.
Cell: (518) 573-4378
andrew.millspaugh@sterlingenvironmental.com
www.sterlingenvironmental.com

From: Schneider, Timothy A (DEC) <timothy.schneider@dec.ny.gov>
Sent: Thursday, July 20, 2023 3:49 PM
To: Andrew Millspaugh <Andrew.Millspaugh@sterlingenvironmental.com>; Howe, Alexander <alexander.howe@wsp.com>; McCartney, W Scott <w.scott.mccartney@wsp.com>; Zappia, Kaleigh M (DEC) <Kaleigh.Zappia@dec.ny.gov>; Pratt, David (DEC) <david.pratt@dec.ny.gov>; Bogardus, Sara (HEALTH) <Sara.Bogardus@health.ny.gov>; Bonsteel, Nicole <nicole.bonsteel@wsp.com>; Whelan, Vincent <vincent.whelan@wsp.com>; haustin@elmiracityschools.com; Granato, Donald <donald.granato@wsp.com>; Fizzano, Thomas <thomas.fizzano@wsp.com>
Cc: Etter, Terry R. <terry.etter@unisys.com>; akrasnopoler@geosyntec.com; Kaitlin Ouverson <KOuverson@Geosyntec.com>; Amanda McNally <AMcNally@Geosyntec.com>; Lawrence Endicott <larry.endicott@keller-na.com>; Kyle Cunningham <kyle.cunningham@reconservices.com>; Cyr, Scott <cyrs@hunt-eas.com>; Amanda McNally <AMcNally@Geosyntec.com>; Amanda Castignetti <Amanda.Castignetti@SterlingEnvironmental.com>; mdunn <mdunn@buildwelliver.com>; Mike Fulkerson <mfulkerson@buildwelliver.com>; Krueger, Kevin D. <Kevin.Krueger@unisys.com>; Jen Huha <JHuha@Geosyntec.com>; Miranda Stelmach <MStelmach@Geosyntec.com>
Subject: RE: NYSDEC #c808022 - ECSD Ballfield Products

Hi Andrew,

As discussed on today's technical call, sampling will be required to support the import of materials identified as "soil" or "clay" at a frequency of one set per product, regardless of the volume imported. Other products not identified as such are considered building materials and not subject to import sampling.

Regards,

Tim

Timothy A. Schneider P.E.
Pronouns: he / him / his
Professional Engineer 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
6274 East Avon-Lima Road, Avon, NY 14414
P: (585) 226-5480 | F: (585) 226-8139 | timothy.schneider@dec.ny.gov
www.dec.ny.gov |

This electronic message may contain privileged or confidential information. If you are not the intended recipient of this e-mail, please delete it from your system and advise the sender.

From: Andrew Millspaugh <Andrew.Millspaugh@sterlingenvironmental.com>
Sent: Wednesday, July 19, 2023 11:13 AM
To: Schneider, Timothy A (DEC) <timothy.schneider@dec.ny.gov>; Howe, Alexander <alexander.howe@wsp.com>; McCartney, W Scott <w.scott.mccartney@wsp.com>; Zappia, Kaleigh M (DEC) <Kaleigh.Zappia@dec.ny.gov>; Pratt, David (DEC) <david.pratt@dec.ny.gov>; Bogardus, Sara (HEALTH) <Sara.Bogardus@health.ny.gov>; Bonsteel, Nicole <nicole.bonsteel@wsp.com>; Whelan, Vincent <vincent.whelan@wsp.com>; Granato, Donald <donald.granato@wsp.com>; Fizzano, Thomas <thomas.fizzano@wsp.com>
Cc: Etter, Terry R. <terry.etter@unisys.com>; akrasnopoler@geosyntec.com; Kaitlin Ouverson <KOuverson@Geosyntec.com>; Amanda McNally <AMcNally@Geosyntec.com>; Lawrence Endicott <larry.endicott@keller-na.com>; Kyle Cunningham <kyle.cunningham@reconservices.com>; Cyr, Scott <cyrs@hunt-eas.com>; Amanda McNally <AMcNally@Geosyntec.com>; Amanda.Castignetti@SterlingEnvironmental.com; mdunn <mdunn@buildwelliver.com>; Mike Fulkerson <mfulkerson@buildwelliver.com>; Krueger, Kevin D. <Kevin.Krueger@unisys.com>; Jen Huha <JHuha@Geosyntec.com>; Miranda Stelmach <MStelmach@Geosyntec.com>
Subject: NYSDEC #c808022 - ECSD Ballfield Products

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Good Morning Tim,

ECSD will need to import the four products bulleted below for the baseball and softball fields. These are manufactured products with product sheets and Safety Data Sheets (copies attached) that are routinely used at ballfields across the country. We wanted to check with the Department if these products will require import testing or not since they are manufactured products.

- DuraEdge Infield Mix
- DuraEdge Mound Clay
- DuraEdge Clay Bricks
- DuraEdge Conditioner

Thanks,

Andrew M. Millspaugh, P.E.
Sterling Environmental Engineering, P.C.
Cell: (518) 573-4378
andrew.millspaugh@sterlingenvironmental.com
www.sterlingenvironmental.com

-LAEmHhHzdJzBITWfa4Hgs7pbKI

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

Proslide Calcined Clay Conditioner

How many cubic yards of soil will be imported/reused? 0-50

If greater than 1000 cubic yards will be imported, enter volume to be imported: N/A

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? no

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Samples were collected from the clay generated from a permitted mine, the Varos Mine, in Sarvar, Pennsylvania. In accordance with NYSDEC's July 20, 2023 email (see attached) and DER-10 Appendix 5, one (1) grab sample was collected for VOC analyses, and one (1) composite sample was collected and analyzed for inorganics, SVOCs, PCBs, pesticides, herbicides and PFAS Compounds.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

None of the analyzed compounds were detected at concentrations above the DER-10 Appendix 5 allowable levels for Restricted Residential Use. See the attached data table and analytical report for details.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Natural Sand Company, Inc.

Location where fill was obtained:

Varos Mine, Sarvar, Pennsylvania

Identification of any state or local approvals as a fill source:

Mine ID #36-10143

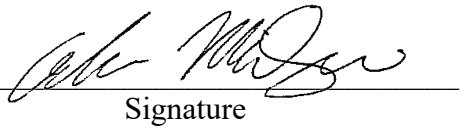
If no approvals are available, provide a brief history of the use of the property that is the fill source:

NA

Provide a list of supporting documentation included with this request:

Results Summary Table, Laboratory Analytical Report

The information provided on this form is accurate and complete.



Signature

09/07/2023

Date

Andrew M. Millspaugh, P.E.

Print Name

Sterling Environmental Engineering, P.C.

Firm

Revised August 2014

Andrew Millspaugh

From: Schneider, Timothy A (DEC) <timothy.schneider@dec.ny.gov>
Sent: Thursday, July 20, 2023 3:49 PM
To: Andrew Millspaugh; Howe, Alexander; McCartney, W Scott; Zappia, Kaleigh M (DEC); Pratt, David (DEC); Bogardus, Sara (HEALTH); Bonsteel, Nicole; Whelan, Vincent; haustin@elmiracityschools.com; Granato, Donald; Fizzano, Thomas
Cc: Etter, Terry R.; akrasnopoler@geosyntec.com; Kaitlin Ouverson; Amanda McNally; Lawrence Endicott; Kyle Cunningham; Cyr, Scott; Amanda McNally; Amanda Castignetti; mdunn; Mike Fulkerson; Krueger, Kevin D.; Jen Huha; Miranda Stelmach
Subject: RE: NYSDEC #c808022 - ECSD Ballfield Products

Categories: Projects

Hi Andrew,

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Regards,

Tim

Timothy A. Schneider P.E.
Pronouns: he / him / his
Professional Engineer 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
6274 East Avon-Lima Road, Avon, NY 14414
P: (585) 226-5480 | F: (585) 226-8139 | timothy.schneider@dec.ny.gov
www.dec.ny.gov | | |

This electronic message may contain privileged or confidential information. If you are not the intended recipient of this e-mail, please delete it from your system and advise the sender.

From: Andrew Millspaugh <Andrew.Millspaugh@sterlingenvironmental.com>
Sent: Wednesday, July 19, 2023 11:13 AM
To: Schneider, Timothy A (DEC) <timothy.schneider@dec.ny.gov>; Howe, Alexander <alexander.howe@wsp.com>; McCartney, W Scott <w.scott.mccartney@wsp.com>; Zappia, Kaleigh M (DEC) <Kaleigh.Zappia@dec.ny.gov>; Pratt, David (DEC) <david.pratt@dec.ny.gov>; Bogardus, Sara (HEALTH) <Sara.Bogardus@health.ny.gov>; Bonsteel, Nicole <nicole.bonsteel@wsp.com>; Whelan, Vincent <vincent.whelan@wsp.com>; Granato, Donald <donald.granato@wsp.com>; Fizzano, Thomas <thomas.fizzano@wsp.com>
Cc: Etter, Terry R. <terry.etter@unisys.com>; akrasnopoler@geosyntec.com; Kaitlin Ouverson <KOuverson@Geosyntec.com>; Amanda McNally <AMcNally@Geosyntec.com>; Lawrence Endicott <larry.endicott@keller-na.com>; Kyle Cunningham <kyle.cunningham@reconservices.com>; Cyr, Scott <cyrs@hunt-eas.com>; Amanda McNally <AMcNally@Geosyntec.com>; Amanda.Castignetti@SterlingEnvironmental.com; mdunn <mdunn@buildwelliver.com>; Mike Fulkerson <mfulkerson@buildwelliver.com>; Krueger, Kevin D. <Kevin.Krueger@unisys.com>; Jen Huha <JHuha@Geosyntec.com>; Miranda Stelmach <MStelmach@Geosyntec.com>
Subject: NYSDEC #c808022 - ECSD Ballfield Products

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Good Morning Tim,

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- DuraEdge Infield Mix
- DuraEdge Mound Clay
- DuraEdge Clay Bricks
- DuraEdge Conditioner

Thanks,

Andrew M. Millspaugh, P.E.
Sterling Environmental Engineering, P.C.
Cell: (518) 573-4378
andrew.millspaugh@sterlingenvironmental.com
www.sterlingenvironmental.com

-LAEmHhHzdJzBlTWfa4Hgs7pbKI

Table 1

Summary of Analytical Results - Proslide Calcined Clay Conditioner
DuraEdge Products, Inc. - Slippery Rock, PA.
ECSD Capital Construction

	NY-DER10-RRU	EHS-DE-CCC 8/3/2023
VOLATILE ORGANICS BY EPA 5035, mg/kg		
1,1,1-Trichloroethane	0.68	0.00038 U
1,1-Dichloroethane	0.27	0.00033 U
1,1-Dichloroethene	0.33	0.00054 U
1,2,4-Trimethylbenzene	3.6	0.0038 J
1,2-Dichlorobenzene	1.1	0.00033 U
1,2-Dichloroethane	0.02	0.00059 U
1,3,5-Trimethylbenzene	8.4	0.00085 J
1,3-Dichlorobenzene	2.4	0.00034 U
1,4-Dichlorobenzene	1.8	0.00039 U
1,4-Dioxane	0.1	0.08 U
2-Butanone	0.12	0.0051 U
Acetone	0.05	0.029
Benzene	0.06	0.00038 U
Carbon tetrachloride	0.76	0.00053 U
Chlorobenzene	1.1	0.00029 U
Chloroform	0.37	0.00032 U
cis-1,2-Dichloroethene	0.25	0.0004 U
Ethylbenzene	1	0.00095 J
Methyl tert butyl ether	0.93	0.00046 U
Methylene chloride	0.05	0.0052 U
n-Butylbenzene	12	0.00038 U
n-Propylbenzene	3.9	0.00053 J
o-Xylene	---	0.0015 J
p/m-Xylene	---	0.004 J
sec-Butylbenzene	11	0.00033 U
tert-Butylbenzene	5.9	0.00027 U
Tetrachloroethene	1.3	0.00045 U
Toluene	0.7	0.0035
trans-1,2-Dichloroethene	0.19	0.00031 U
Trichloroethene	0.47	0.00031 U
Vinyl chloride	0.02	0.00077 U
PERFLUORINATED ALKYL ACIDS BY ISOTOPE DILUTION, mg/kg		
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	---	0.000282 U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	---	0.000176 U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	---	0.000083 U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	---	0.000198 U
Perfluorobutanesulfonic Acid (PFBS)	---	0.000038 U
Perfluorobutanoic Acid (PFBA)	---	0.000022 U
Perfluorodecanesulfonic Acid (PFDS)	---	0.00015 U
Perfluorodecanoic Acid (PFDA)	---	0.000066 U
Perfluorododecanoic Acid (PFDoA)	---	0.000069 U
Perfluoroheptanesulfonic Acid (PFHpS)	---	0.000134 U
Perfluoroheptanoic Acid (PFHpA)	---	0.000044 U
Perfluorohexanesulfonic Acid (PFHxS)	---	0.000059 U
Perfluorohexanoic Acid (PFHxA)	---	0.000052 U
Perfluorononanoic Acid (PFNA)	---	0.000074 U
Perfluorooctanesulfonamide (FOSA)	---	0.000096 U
Perfluorooctanesulfonic Acid (PFOS)	0.044	0.000128 U
Perfluorooctanoic Acid (PFOA)	0.033	0.000041 U
Perfluoropentanoic Acid (PFPeA)	---	0.000045 U
Perfluorotetradecanoic Acid (PFTA)	---	0.000053 U
Perfluorotridecanoic Acid (PFTrDA)	---	0.000201 U
Perfluoroundecanoic Acid (PFUnA)	---	0.000046 U
PFOA/PFOS, Total		0.000041 U
SEMIVOLATILE ORGANICS BY GC/MS, mg/kg		
2-Methylphenol	0.33	0.026 U
3-Methylphenol/4-Methylphenol	0.33	0.026 U
Acenaphthene	98	0.017 U
Acenaphthylene	100	0.026 U
Anthracene	100	0.032 U
Benzo(a)anthracene	1	0.019 U
Benzo(a)pyrene	1	0.04 U
Benzo(b)fluoranthene	1	0.028 U
Benzo(ghi)perylene	100	0.02 U
Benzo(k)fluoranthene	1.7	0.026 U
Chrysene	1	0.017 U
Dibenzo(a,h)anthracene	0.33	0.019 U
Dibenzofuran	59	0.016 U
Fluoranthene	100	0.019 U
Fluorene	100	0.016 U
Hexachlorobenzene	1.2	0.019 U
Indeno(1,2,3-cd)pyrene	0.5	0.023 U
Naphthalene	12	0.02 U
Pentachlorophenol	0.8	0.036 U
Phenanthrene	100	0.02 U
Phenol	0.33	0.025 U
Pyrene	100	0.016 U

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Table 1

Summary of Analytical Results - Proslide Calcined Clay Conditioner
DuraEdge Products, Inc. - Slippery Rock, PA.
ECSD Capital Construction

	NY-DER10-RRU	EHS-DE-CCC 8/3/2023
CHLORINATED HERBICIDES BY GC, mg/kg		
2,4,5-TP (Silvex)	3.8	0.00432 U
ORGANOCHLORINE PESTICIDES BY GC, mg/kg		
4,4'-DDD	13	0.000539 U
4,4'-DDE	8.9	0.00035 U
4,4'-DDT	7.9	0.00122 U
Aldrin	0.097	0.000532 U
Alpha-BHC	0.02	0.000179 U
Beta-BHC	0.09	0.000573 U
cis-Chlordane	2.9	0.000527 U
Delta-BHC	0.25	0.000296 U
Dieldrin	0.1	0.000472 U
Endosulfan I	24	0.000357 U
Endosulfan II	24	0.000505 U
Endosulfan sulfate	24	0.0003 U
Endrin	0.06	0.000258 U
Heptachlor	0.38	0.000339 U
Lindane	0.1	0.000282 U
POLYCHLORINATED BIPHENYLS BY GC, mg/kg		
Aroclor 1016	1	0.00434 U
Aroclor 1221	1	0.0049 U
Aroclor 1232	1	0.0104 U
Aroclor 1242	1	0.0066 U
Aroclor 1248	1	0.00734 U
Aroclor 1254	1	0.00535 U
Aroclor 1260	1	0.00904 U
Aroclor 1262	1	0.00621 U
Aroclor 1268	1	0.00507 U
PCBs, Total	1	0.00434 U
GENERAL CHEMISTRY, mg/kg		
Chromium, Hexavalent	19	0.391 J
Chromium, Trivalent	180	7.27 J
Cyanide, Total	27	0.21 U
Solids, Total	---	99.7
TOTAL METALS, mg/kg		
Arsenic, Total	16	1.67
Barium, Total	400	354
Beryllium, Total	47	0.082 J
Cadmium, Total	4.3	0.039 U
Chromium, Total	---	7.66
Copper, Total	270	0.704
Lead, Total	400	1.69 J
Manganese, Total	2000	3.83
Mercury, Total	0.73	0.049 U
Nickel, Total	130	0.633 J
Selenium, Total	4	0.102 U
Silver, Total	8.3	0.112 U
Zinc, Total	2480	1.3 J

NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10, May 3, 2010.
PFOA and PFOS standards from NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances under NYSDEC Part 375 Remedial Programs, November 2022.
---: No applicable standard.
U: Not Detected. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

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ANALYTICAL REPORT

Lab Number:	L2345016
Client:	Sterling Environmental Engineering 24 Wade Road Latham, NY 12110
ATTN:	Andrew Millspaugh
Phone:	(518) 456-4900
Project Name:	EHS-CAPITAL IMPROVEMENTS
Project Number:	2021-01
Report Date:	08/24/23

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2345016-01	EHS-DE-CIM	SOIL	ELMIRA, NY	08/03/23 15:30	08/03/23
L2345016-02	EHS-DE-PMC	SOIL	ELMIRA, NY	08/03/23 15:15	08/03/23
L2345016-03	EHS-DE-CCC	SOIL	ELMIRA, NY	08/03/23 15:00	08/03/23

Project Name:	EHS-CAPITAL IMPROVEMENTS	**Lab Number:**	L2345016
Project Number:	2021-01	**Report Date:**	08/24/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	EHS-CAPITAL IMPROVEMENTS	**Lab Number:**	L2345016
Project Number:	2021-01	**Report Date:**	08/24/23

Case Narrative (continued)

Report Submission

August 24, 2023: This final report includes the results of all requested analyses.

August 17, 2023: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by Isotope Dilution

L2345016-01R: The sample was re-analyzed due to QC failures in the original analysis. The results of the re-analysis are reported.

L2345016-02, -03, WG1812376-1, WG1812376-2, WG1812376-3, and WG1812376-4: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

L2345016-03: The MeOH fraction of the extraction is reported for perfluorooctanesulfonamide (fosa) due to better extraction efficiency of the perfluoro[13c8]octanesulfonamide (m8fosa) Extracted Internal Standard.

Cyanide, Total

The WG1814811-2 LCS recovery for cyanide, total (76%), associated with L2345016-02 and -03, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1814813-2/-3 LCS/LCSD recoveries for cyanide, total (53%/71%), associated with L2345016-01, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly O'Neill

Title: Technical Director/Representative Date: 08/24/23

ORGANICS

VOLATILES

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 08/15/23 14:50
Analyst: LAC
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.22	1
p/m-Xylene	ND		ug/kg	2.1	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Acetone	ND		ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.4	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.1	0.13	1
n-Propylbenzene	ND		ug/kg	1.1	0.18	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01 Date Collected: 08/03/23 15:30

Client ID: EHS-DE-CIM Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.36	1
1,4-Dioxane	ND		ug/kg	86	38.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	100		70-130

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02
Client ID: EHS-DE-PMC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:15
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 08/15/23 15:16
Analyst: LAC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
Tetrachloroethene	ND		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.13	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Benzene	ND		ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.0	0.58	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.53	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Acetone	ND		ug/kg	10	5.1	1
2-Butanone	ND		ug/kg	10	2.4	1
n-Butylbenzene	ND		ug/kg	1.0	0.18	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
n-Propylbenzene	ND		ug/kg	1.0	0.18	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02 Date Collected: 08/03/23 15:15

Client ID: EHS-DE-PMC Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	85	37.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 08/15/23 15:42
Analyst: LAC
Percent Solids: 100%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	11	5.2	1
1,1-Dichloroethane	ND		ug/kg	2.3	0.33	1
Chloroform	ND		ug/kg	3.4	0.32	1
Carbon tetrachloride	ND		ug/kg	2.3	0.53	1
Tetrachloroethene	ND		ug/kg	1.1	0.45	1
Chlorobenzene	ND		ug/kg	1.1	0.29	1
1,2-Dichloroethane	ND		ug/kg	2.3	0.59	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.38	1
Benzene	ND		ug/kg	1.1	0.38	1
Toluene	3.5		ug/kg	2.3	1.2	1
Ethylbenzene	0.95	J	ug/kg	2.3	0.32	1
Vinyl chloride	ND		ug/kg	2.3	0.77	1
1,1-Dichloroethene	ND		ug/kg	2.3	0.54	1
trans-1,2-Dichloroethene	ND		ug/kg	3.4	0.31	1
Trichloroethene	ND		ug/kg	1.1	0.31	1
1,2-Dichlorobenzene	ND		ug/kg	4.6	0.33	1
1,3-Dichlorobenzene	ND		ug/kg	4.6	0.34	1
1,4-Dichlorobenzene	ND		ug/kg	4.6	0.39	1
Methyl tert butyl ether	ND		ug/kg	4.6	0.46	1
p/m-Xylene	4.0	J	ug/kg	4.6	1.3	1
o-Xylene	1.5	J	ug/kg	2.3	0.67	1
cis-1,2-Dichloroethene	ND		ug/kg	2.3	0.40	1
Acetone	29		ug/kg	23	11.	1
2-Butanone	ND		ug/kg	23	5.1	1
n-Butylbenzene	ND		ug/kg	2.3	0.38	1
sec-Butylbenzene	ND		ug/kg	2.3	0.33	1
tert-Butylbenzene	ND		ug/kg	4.6	0.27	1
n-Propylbenzene	0.53	J	ug/kg	2.3	0.39	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03 Date Collected: 08/03/23 15:00

Client ID: EHS-DE-CCC Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	0.85	J	ug/kg	4.6	0.44	1
1,2,4-Trimethylbenzene	3.8	J	ug/kg	4.6	0.76	1
1,4-Dioxane	ND		ug/kg	180	80.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	101		70-130

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/15/23 10:56
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1816171-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Vinyl chloride	ND		ug/kg	1.0	0.34
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Acetone	ND		ug/kg	10	4.8
2-Butanone	ND		ug/kg	10	2.2
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/15/23 10:56
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1816171-5					
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1816171-3 WG1816171-4								
Methylene chloride	90		89		70-130	1		30
1,1-Dichloroethane	96		92		70-130	4		30
Chloroform	93		91		70-130	2		30
Carbon tetrachloride	82		79		70-130	4		30
Tetrachloroethene	84		79		70-130	6		30
Chlorobenzene	92		88		70-130	4		30
1,2-Dichloroethane	97		95		70-130	2		30
1,1,1-Trichloroethane	91		88		70-130	3		30
Benzene	94		91		70-130	3		30
Toluene	88		83		70-130	6		30
Ethylbenzene	92		87		70-130	6		30
Vinyl chloride	98		94		67-130	4		30
1,1-Dichloroethene	88		83		65-135	6		30
trans-1,2-Dichloroethene	91		87		70-130	4		30
Trichloroethene	93		89		70-130	4		30
1,2-Dichlorobenzene	93		88		70-130	6		30
1,3-Dichlorobenzene	92		87		70-130	6		30
1,4-Dichlorobenzene	91		85		70-130	7		30
Methyl tert butyl ether	94		95		66-130	1		30
p/m-Xylene	94		89		70-130	5		30
o-Xylene	93		88		70-130	6		30
cis-1,2-Dichloroethene	92		89		70-130	3		30
Acetone	86		91		54-140	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1816171-3 WG1816171-4								
2-Butanone	89		94		70-130	5		30
n-Butylbenzene	98		90		70-130	9		30
sec-Butylbenzene	95		86		70-130	10		30
tert-Butylbenzene	93		85		70-130	9		30
n-Propylbenzene	98		90		70-130	9		30
1,3,5-Trimethylbenzene	95		88		70-130	8		30
1,2,4-Trimethylbenzene	95		89		70-130	7		30
1,4-Dioxane	88		93		65-136	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		103		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	102		100		70-130
Dibromofluoromethane	98		100		70-130

SEMIVOLATILES

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 08/14/23 19:28
Analyst: IM
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 11:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Fluoranthene	ND		ug/kg	100	20.	1
Naphthalene	ND		ug/kg	180	21.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	100	30.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Dibenzofuran	ND		ug/kg	180	16.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01 Date Collected: 08/03/23 15:30

Client ID: EHS-DE-CIM Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	107		30-120
2,4,6-Tribromophenol	102		10-136
4-Terphenyl-d14	94		18-120

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01 R
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 08/07/23 19:23
Analyst: SG
Percent Solids: 95%

Extraction Method: ALPHA 23528
Extraction Date: 08/06/23 06:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.494	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.494	0.045	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.247	0.039	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.494	0.052	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.247	0.045	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.247	0.060	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.247	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.494	0.177	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.494	0.135	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.247	0.074	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.247	0.128	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.247	0.066	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.494	0.284	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.494	0.199	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.494	0.046	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.494	0.151	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.494	0.097	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.494	0.084	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.494	0.069	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.494	0.202	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.494	0.053	1
PFOA/PFOS, Total	ND		ng/g	0.247	0.041	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01 R
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	101		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	108		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	149		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	87		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	152		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	58		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	67		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	60		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	103		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	77		24-159

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02
Client ID: EHS-DE-PMC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:15
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 08/14/23 19:47
Analyst: IM
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 11:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Fluoranthene	ND		ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	19.	1
Dibenzofuran	23	J	ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1
1,4-Dioxane	ND		ug/kg	28	8.6	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02 Date Collected: 08/03/23 15:15

Client ID: EHS-DE-PMC Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	69		18-120

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02
Client ID: EHS-DE-PMC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:15
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 08/06/23 16:02
Analyst: SG
Percent Solids: 88%

Extraction Method: ALPHA 23528
Extraction Date: 08/06/23 06:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.552	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.552	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.276	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.552	0.058	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.276	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.276	0.067	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.276	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.552	0.198	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.552	0.151	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.276	0.083	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.276	0.143	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.276	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.552	0.317	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.552	0.222	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.552	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.552	0.169	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.552	0.108	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.552	0.093	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.552	0.077	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.552	0.226	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.552	0.060	1
PFOA/PFOS, Total	ND		ng/g	0.276	0.046	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02 Date Collected: 08/03/23 15:15

Client ID: EHS-DE-PMC Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	99		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	103		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	103		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	88		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	103		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**172**	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	100		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	104		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**184**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	56		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	107		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	32		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	63		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	95		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	86		24-159

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 08/15/23 04:56
Analyst: IM
Percent Solids: 100%

Extraction Method: EPA 3540C
Extraction Date: 08/13/23 15:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	130	17.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Fluoranthene	ND		ug/kg	100	19.	1
Naphthalene	ND		ug/kg	170	20.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	130	40.	1
Benzo(b)fluoranthene	ND		ug/kg	100	28.	1
Benzo(k)fluoranthene	ND		ug/kg	100	26.	1
Chrysene	ND		ug/kg	100	17.	1
Acenaphthylene	ND		ug/kg	130	26.	1
Anthracene	ND		ug/kg	100	32.	1
Benzo(ghi)perylene	ND		ug/kg	130	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	ND		ug/kg	100	20.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.	1
Pyrene	ND		ug/kg	100	16.	1
Dibenzofuran	ND		ug/kg	170	16.	1
Pentachlorophenol	ND		ug/kg	130	36.	1
Phenol	ND		ug/kg	170	25.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.	1
1,4-Dioxane	ND		ug/kg	25	7.6	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03 Date Collected: 08/03/23 15:00

Client ID: EHS-DE-CCC Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	84		18-120

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 08/06/23 16:36
Analyst: SG
Percent Solids: 100%

Extraction Method: ALPHA 23528
Extraction Date: 08/06/23 06:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.490	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.490	0.045	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.245	0.038	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.490	0.052	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.245	0.044	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.245	0.059	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.245	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.490	0.176	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.490	0.134	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.245	0.074	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.245	0.128	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.245	0.066	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.490	0.282	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.490	0.198	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.490	0.046	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.490	0.150	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.490	0.083	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.490	0.069	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.490	0.201	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.490	0.053	1
PFOA/PFOS, Total	ND		ng/g	0.245	0.041	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03 Date Collected: 08/03/23 15:00

Client ID: EHS-DE-CCC Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	**58**	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	69		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	106		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	**62**	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	74		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	96		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**177**	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	88		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	101		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**191**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	44		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	92		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	48		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	98		24-159

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 08/08/23 07:51
Analyst: AC
Percent Solids: 100%

Extraction Method: ALPHA 23528
Extraction Date: 08/06/23 06:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.490	0.096	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	61		10-117

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 08/06/23 13:50
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 08/06/23 06:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-03 Batch: WG1812376-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 08/06/23 13:50
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 08/06/23 06:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-03 Batch: WG1812376-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	107		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	116		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	112		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	108		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**179**	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	107		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**200**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	72		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	108		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	10		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	75		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	104		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	112		24-159

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 08/08/23 07:20
Analyst: AC

Extraction Method: ALPHA 23528
Extraction Date: 08/06/23 06:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-03 Batch: WG1812376-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	59		10-117

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 08/14/23 10:56
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 08/13/23 11:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1815328-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Dibenzofuran	ND		ug/kg	160	15.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
1,4-Dioxane	ND		ug/kg	24	7.5

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 08/14/23 10:56
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 08/13/23 11:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1815328-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	85		18-120

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 08/14/23 22:55
Analyst: IM

Extraction Method: EPA 3540C
Extraction Date: 08/13/23 15:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1815356-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Fluoranthene	ND		ug/kg	99	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Dibenzofuran	ND		ug/kg	160	16.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
1,4-Dioxane	ND		ug/kg	25	7.6

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 08/14/23 22:55
Analyst: IM

Extraction Method: EPA 3540C
Extraction Date: 08/13/23 15:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1815356-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	81		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 Batch: WG1812376-2								
Perfluorobutanoic Acid (PFBA)	94		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	98		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	88		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	93		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	94		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	101		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	90		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	103		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	80		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	103		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	87		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	88		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	111		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	100		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	112		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	94		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	87		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	107		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	92		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	99		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	73		-		69-133	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 Batch: WG1812376-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	102				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	109				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	113				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	88				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**180**	Q			20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	96				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	107				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	108				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**184**	Q			19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	75				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	12				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	74				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	101				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	116				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab	Associated sample(s): 01-03		Batch: WG1812376-2					
Perfluorooctanesulfonamide (FOSA)	104		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	57				10-117

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1815328-2 WG1815328-3								
Acenaphthene	75		79		31-137	5		50
Hexachlorobenzene	86		92		40-140	7		50
Fluoranthene	79		87		40-140	10		50
Naphthalene	78		85		40-140	9		50
Benzo(a)anthracene	88		92		40-140	4		50
Benzo(a)pyrene	95		100		40-140	5		50
Benzo(b)fluoranthene	84		96		40-140	13		50
Benzo(k)fluoranthene	88		84		40-140	5		50
Chrysene	82		88		40-140	7		50
Acenaphthylene	92		101		40-140	9		50
Anthracene	81		85		40-140	5		50
Benzo(ghi)perylene	87		91		40-140	4		50
Fluorene	78		84		40-140	7		50
Phenanthrene	78		82		40-140	5		50
Dibenzo(a,h)anthracene	86		90		40-140	5		50
Indeno(1,2,3-cd)pyrene	89		92		40-140	3		50
Pyrene	80		89		35-142	11		50
Dibenzofuran	79		86		40-140	8		50
Pentachlorophenol	58		60		17-109	3		50
Phenol	74		83		26-90	11		50
2-Methylphenol	70		77		30-130.	10		50
3-Methylphenol/4-Methylphenol	74		83		30-130	11		50
1,4-Dioxane	46		52		40-140	12		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1815328-2 WG1815328-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	72		83		25-120
Phenol-d6	70		80		10-120
Nitrobenzene-d5	68		77		23-120
2-Fluorobiphenyl	90		98		30-120
2,4,6-Tribromophenol	87		93		10-136
4-Terphenyl-d14	79		89		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1815356-2 WG1815356-3								
Acenaphthene	60		70		31-137	15		50
Hexachlorobenzene	74		85		40-140	14		50
Fluoranthene	65		76		40-140	16		50
Naphthalene	63		72		40-140	13		50
Benzo(a)anthracene	64		78		40-140	20		50
Benzo(a)pyrene	73		85		40-140	15		50
Benzo(b)fluoranthene	66		82		40-140	22		50
Benzo(k)fluoranthene	66		75		40-140	13		50
Chrysene	66		77		40-140	15		50
Acenaphthylene	68		78		40-140	14		50
Anthracene	65		77		40-140	17		50
Benzo(ghi)perylene	65		77		40-140	17		50
Fluorene	65		76		40-140	16		50
Phenanthrene	63		74		40-140	16		50
Dibenzo(a,h)anthracene	64		75		40-140	16		50
Indeno(1,2,3-cd)pyrene	66		77		40-140	15		50
Pyrene	65		76		35-142	16		50
Dibenzofuran	66		75		40-140	13		50
Pentachlorophenol	48		56		17-109	15		50
Phenol	68		74		26-90	8		50
2-Methylphenol	70		78		30-130.	11		50
3-Methylphenol/4-Methylphenol	69		76		30-130	10		50
1,4-Dioxane	51		53		40-140	4		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1815356-2 WG1815356-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	69		72		25-120
Phenol-d6	68		73		10-120
Nitrobenzene-d5	68		72		23-120
2-Fluorobiphenyl	67		72		30-120
2,4,6-Tribromophenol	78		86		10-136
4-Terphenyl-d14	66		74		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1812376-3 QC Sample: L2345016-01 Client ID: EHS-DE-CIM												
Perfluorobutanoic Acid (PFBA)	ND	4.93	4.61	94		-	-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	ND	4.93	4.90	99		-	-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.38	3.87	88		-	-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	ND	4.93	4.53	92		-	-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	4.93	4.50	91		-	-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.5	4.42	98		-	-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	ND	4.93	4.16	84		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.69	5.40	115		-	-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.7	3.76	80		-	-		70-132	-		30
Perfluorononanoic Acid (PFNA)	ND	4.93	5.08	103		-	-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	ND	4.57	3.92	86		-	-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	ND	4.93	4.27	87		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.73	4.92	104		-	-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	4.93	5.21F	106		-	-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	4.93	5.29	107		-	-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	4.76	4.26	90		-	-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	ND	4.93	4.39F	89		-	-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	4.93	4.88	99		-	-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	ND	4.93	4.65	94		-	-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	ND	4.93	4.98	101		-	-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	4.93	3.82	78		-	-		69-133	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1812376-3 QC Sample: L2345016-01 Client ID: EHS-DE-CIM

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**182**	Q			19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**167**	Q			20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	61				34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	60				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	99				61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98				75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	87				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97				78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	96				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	93				24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	99				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	105				58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	61				10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103				79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	105				75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94				72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	105				74-139

Lab Duplicate Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1812376-4 QC Sample: L2345016-02 Client ID: EHS-DE-PMC						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/g	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/g	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/g	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/g	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/g	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/g	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/g	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/g	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/g	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/g	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/g	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/g	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/g	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/g	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/g	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/g	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1812376-4 QC Sample: L2345016-02 Client ID: EHS-DE-PMC						
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/g	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	99		98		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	103		104		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	103		105		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	88		86		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		92		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		100		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	103		104		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**172**	Q	**163**	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	100		95		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		104		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	104		99		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**184**	Q	**198**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	56		51		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	107		105		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	32		16		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	63		57		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	95		95		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	86		92		24-159

PCBS

Project Name: EHS-CAPITAL IMPROVEMENTS
Lab Number: L2345016
Project Number: 2021-01
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 08/14/23 13:57
Analyst: MEO
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 10:04
Cleanup Method: EPA 3665A
Cleanup Date: 08/14/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/14/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	52.6	4.67	1	A
Aroclor 1221	ND		ug/kg	52.6	5.27	1	A
Aroclor 1232	ND		ug/kg	52.6	11.2	1	A
Aroclor 1242	ND		ug/kg	52.6	7.10	1	A
Aroclor 1248	ND		ug/kg	52.6	7.90	1	B
Aroclor 1254	ND		ug/kg	52.6	5.76	1	A
Aroclor 1260	ND		ug/kg	52.6	9.73	1	A
Aroclor 1262	ND		ug/kg	52.6	6.68	1	A
Aroclor 1268	ND		ug/kg	52.6	5.45	1	A
PCBs, Total	ND		ug/kg	52.6	4.67	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Lab Number: L2345016
Project Number: 2021-01
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02
Client ID: EHS-DE-PMC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:15
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 08/14/23 14:10
Analyst: MEO
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 10:04
Cleanup Method: EPA 3665A
Cleanup Date: 08/14/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/14/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	54.8	4.86	1	A
Aroclor 1221	ND		ug/kg	54.8	5.49	1	A
Aroclor 1232	ND		ug/kg	54.8	11.6	1	A
Aroclor 1242	ND		ug/kg	54.8	7.38	1	A
Aroclor 1248	ND		ug/kg	54.8	8.22	1	A
Aroclor 1254	ND		ug/kg	54.8	5.99	1	A
Aroclor 1260	ND		ug/kg	54.8	10.1	1	A
Aroclor 1262	ND		ug/kg	54.8	6.96	1	A
Aroclor 1268	ND		ug/kg	54.8	5.67	1	A
PCBs, Total	ND		ug/kg	54.8	4.86	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	37		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	38		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Lab Number: L2345016
Project Number: 2021-01
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 08/15/23 15:48
Analyst: ENT
Percent Solids: 100%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 15:05
Cleanup Method: EPA 3665A
Cleanup Date: 08/15/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/15/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	48.9	4.34	1	A
Aroclor 1221	ND		ug/kg	48.9	4.90	1	A
Aroclor 1232	ND		ug/kg	48.9	10.4	1	A
Aroclor 1242	ND		ug/kg	48.9	6.60	1	A
Aroclor 1248	ND		ug/kg	48.9	7.34	1	A
Aroclor 1254	ND		ug/kg	48.9	5.35	1	A
Aroclor 1260	ND		ug/kg	48.9	9.04	1	A
Aroclor 1262	ND		ug/kg	48.9	6.21	1	A
Aroclor 1268	ND		ug/kg	48.9	5.07	1	A
PCBs, Total	ND		ug/kg	48.9	4.34	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	38		30-150	A
Decachlorobiphenyl	42		30-150	A
2,4,5,6-Tetrachloro-m-xylene	39		30-150	B
Decachlorobiphenyl	41		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 08/14/23 07:43
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 08/13/23 10:04
Cleanup Method: EPA 3665A
Cleanup Date: 08/14/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/14/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1815289-1						
Aroclor 1016	ND		ug/kg	47.4	4.21	A
Aroclor 1221	ND		ug/kg	47.4	4.75	A
Aroclor 1232	ND		ug/kg	47.4	10.0	A
Aroclor 1242	ND		ug/kg	47.4	6.39	A
Aroclor 1248	ND		ug/kg	47.4	7.11	A
Aroclor 1254	ND		ug/kg	47.4	5.18	A
Aroclor 1260	ND		ug/kg	47.4	8.76	A
Aroclor 1262	ND		ug/kg	47.4	6.02	A
Aroclor 1268	ND		ug/kg	47.4	4.91	A
PCBs, Total	ND		ug/kg	47.4	4.21	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	52		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 08/15/23 15:00
Analyst: ENT

Extraction Method: EPA 3546
Extraction Date: 08/13/23 10:05
Cleanup Method: EPA 3665A
Cleanup Date: 08/15/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/15/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03 Batch: WG1815342-1						
Aroclor 1016	ND		ug/kg	46.8	4.15	A
Aroclor 1221	ND		ug/kg	46.8	4.69	A
Aroclor 1232	ND		ug/kg	46.8	9.92	A
Aroclor 1242	ND		ug/kg	46.8	6.30	A
Aroclor 1248	ND		ug/kg	46.8	7.02	A
Aroclor 1254	ND		ug/kg	46.8	5.12	A
Aroclor 1260	ND		ug/kg	46.8	8.64	A
Aroclor 1262	ND		ug/kg	46.8	5.94	A
Aroclor 1268	ND		ug/kg	46.8	4.84	A
PCBs, Total	ND		ug/kg	46.8	4.15	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	83		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1815289-2 WG1815289-3									
Aroclor 1016	84		98		40-140	15		50	A
Aroclor 1260	78		83		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		87		30-150	A
Decachlorobiphenyl	60		58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		94		30-150	B
Decachlorobiphenyl	58		60		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03 Batch: WG1815342-2 WG1815342-3									
Aroclor 1016	71		70		40-140	1		50	A
Aroclor 1260	70		71		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		68		30-150	A
Decachlorobiphenyl	76		75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		69		30-150	B
Decachlorobiphenyl	74		72		30-150	B

PESTICIDES

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 08/14/23 18:08
Analyst: MMG
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 09:13
Cleanup Method: EPA 3620B
Cleanup Date: 08/14/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/14/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.65	0.323	1	A
Lindane	ND		ug/kg	0.688	0.307	1	A
Alpha-BHC	ND		ug/kg	0.688	0.195	1	A
Beta-BHC	ND		ug/kg	1.65	0.626	1	A
Heptachlor	ND		ug/kg	0.825	0.370	1	A
Aldrin	ND		ug/kg	1.65	0.581	1	A
Endrin	ND		ug/kg	0.688	0.282	1	A
Dieldrin	ND		ug/kg	1.03	0.516	1	A
4,4'-DDE	ND		ug/kg	1.65	0.382	1	A
4,4'-DDD	ND		ug/kg	1.65	0.589	1	A
4,4'-DDT	ND		ug/kg	1.65	1.33	1	A
Endosulfan I	ND		ug/kg	1.65	0.390	1	A
Endosulfan II	ND		ug/kg	1.65	0.551	1	A
Endosulfan sulfate	ND		ug/kg	0.688	0.327	1	A
cis-Chlordane	ND		ug/kg	2.06	0.575	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	94		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Lab Number: L2345016
Project Number: 2021-01
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 08/11/23 16:54
Analyst: EJL
Percent Solids: 95%
Methylation Date: 08/11/23 03:00

Extraction Method: EPA 8151A
Extraction Date: 08/10/23 07:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	172	4.59	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	95		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Lab Number: L2345016
Project Number: 2021-01
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02
Client ID: EHS-DE-PMC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:15
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 08/14/23 18:20
Analyst: MMG
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 09:13
Cleanup Method: EPA 3620B
Cleanup Date: 08/14/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/14/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.76	0.346	1	A
Lindane	ND		ug/kg	0.736	0.329	1	A
Alpha-BHC	ND		ug/kg	0.736	0.209	1	A
Beta-BHC	ND		ug/kg	1.76	0.670	1	A
Heptachlor	ND		ug/kg	0.883	0.396	1	A
Aldrin	ND		ug/kg	1.76	0.622	1	A
Endrin	ND		ug/kg	0.736	0.302	1	A
Dieldrin	ND		ug/kg	1.10	0.552	1	A
4,4'-DDE	ND		ug/kg	1.76	0.408	1	A
4,4'-DDD	ND		ug/kg	1.76	0.630	1	A
4,4'-DDT	ND		ug/kg	1.76	1.42	1	A
Endosulfan I	ND		ug/kg	1.76	0.417	1	A
Endosulfan II	ND		ug/kg	1.76	0.590	1	A
Endosulfan sulfate	ND		ug/kg	0.736	0.350	1	A
cis-Chlordane	ND		ug/kg	2.21	0.615	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	101		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Lab Number: L2345016
Project Number: 2021-01
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02
Client ID: EHS-DE-PMC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:15
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 08/11/23 17:13
Analyst: EJL
Percent Solids: 88%
Methylation Date: 08/11/23 03:00

Extraction Method: EPA 8151A
Extraction Date: 08/10/23 07:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	186	4.95	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	110		30-150	A
DCAA	114		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Lab Number: L2345016
Project Number: 2021-01
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 08/17/23 10:48
Analyst: AKM
Percent Solids: 100%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 15:25
Cleanup Method: EPA 3620B
Cleanup Date: 08/16/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/16/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.51	0.296	1	A
Lindane	ND		ug/kg	0.630	0.282	1	A
Alpha-BHC	ND		ug/kg	0.630	0.179	1	A
Beta-BHC	ND		ug/kg	1.51	0.573	1	A
Heptachlor	ND		ug/kg	0.756	0.339	1	A
Aldrin	ND		ug/kg	1.51	0.532	1	A
Endrin	ND		ug/kg	0.630	0.258	1	A
Dieldrin	ND		ug/kg	0.945	0.472	1	A
4,4'-DDE	ND		ug/kg	1.51	0.350	1	A
4,4'-DDD	ND		ug/kg	1.51	0.539	1	A
4,4'-DDT	ND		ug/kg	1.51	1.22	1	A
Endosulfan I	ND		ug/kg	1.51	0.357	1	A
Endosulfan II	ND		ug/kg	1.51	0.505	1	A
Endosulfan sulfate	ND		ug/kg	0.630	0.300	1	A
cis-Chlordane	ND		ug/kg	1.89	0.527	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Lab Number: L2345016
Project Number: 2021-01
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 08/11/23 17:31
Analyst: EJL
Percent Solids: 100%
Methylation Date: 08/11/23 03:00

Extraction Method: EPA 8151A
Extraction Date: 08/10/23 07:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	162	4.32	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	87		30-150	A
DCAA	94		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 08/11/23 08:30
Analyst: AKM

Extraction Method: EPA 8151A
Extraction Date: 08/10/23 03:34

Methylation Date: 08/11/23 03:00

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1814097-1						
2,4,5-TP (Silvex)	ND		ug/kg	164	4.35	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	94		30-150	A
DCAA	110		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/14/23 16:56
Analyst: MMG

Extraction Method: EPA 3546
Extraction Date: 08/12/23 23:59
Cleanup Method: EPA 3620B
Cleanup Date: 08/14/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/14/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1815274-1						
Delta-BHC	ND		ug/kg	1.53	0.300	A
Lindane	ND		ug/kg	0.638	0.285	A
Alpha-BHC	ND		ug/kg	0.638	0.181	A
Beta-BHC	ND		ug/kg	1.53	0.581	A
Heptachlor	ND		ug/kg	0.766	0.343	A
Aldrin	ND		ug/kg	1.53	0.539	A
Endrin	ND		ug/kg	0.638	0.262	A
Dieldrin	ND		ug/kg	0.957	0.479	A
4,4'-DDE	ND		ug/kg	1.53	0.354	A
4,4'-DDD	ND		ug/kg	1.53	0.546	A
4,4'-DDT	ND		ug/kg	1.53	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.362	A
Endosulfan II	ND		ug/kg	1.53	0.512	A
Endosulfan sulfate	ND		ug/kg	0.638	0.304	A
cis-Chlordane	ND		ug/kg	1.91	0.534	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	109		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/17/23 10:14
Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 08/13/23 15:25
Cleanup Method: EPA 3620B
Cleanup Date: 08/16/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/16/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03 Batch: WG1815358-1						
Delta-BHC	ND		ug/kg	1.54	0.301	A
Lindane	ND		ug/kg	0.640	0.286	A
Alpha-BHC	ND		ug/kg	0.640	0.182	A
Beta-BHC	ND		ug/kg	1.54	0.582	A
Heptachlor	ND		ug/kg	0.768	0.344	A
Aldrin	ND		ug/kg	1.54	0.541	A
Endrin	ND		ug/kg	0.640	0.262	A
Dieldrin	ND		ug/kg	0.960	0.480	A
4,4'-DDE	ND		ug/kg	1.54	0.355	A
4,4'-DDD	ND		ug/kg	1.54	0.548	A
4,4'-DDT	ND		ug/kg	1.54	1.23	A
Endosulfan I	ND		ug/kg	1.54	0.363	A
Endosulfan II	ND		ug/kg	1.54	0.513	A
Endosulfan sulfate	ND		ug/kg	0.640	0.304	A
cis-Chlordane	ND		ug/kg	1.92	0.535	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	71		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1814097-2 WG1814097-3									
2,4,5-TP (Silvex)	105		103		30-150	2		30	B

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	111		99		30-150	A
DCAA	121		124		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1815274-2 WG1815274-3									
Delta-BHC	96		98		30-150	2		30	A
Lindane	90		92		30-150	2		30	A
Alpha-BHC	89		92		30-150	3		30	A
Beta-BHC	90		91		30-150	1		30	A
Heptachlor	89		94		30-150	5		30	A
Aldrin	86		92		30-150	7		30	A
Endrin	94		98		30-150	4		30	A
Dieldrin	95		101		30-150	6		30	A
4,4'-DDE	91		99		30-150	8		30	A
4,4'-DDD	98		106		30-150	8		30	A
4,4'-DDT	98		106		30-150	8		30	A
Endosulfan I	86		91		30-150	6		30	A
Endosulfan II	92		98		30-150	6		30	A
Endosulfan sulfate	86		90		30-150	5		30	A
cis-Chlordane	79		83		30-150	5		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		81		30-150	A
Decachlorobiphenyl	102		105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		83		30-150	B
Decachlorobiphenyl	109		116		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1815358-2 WG1815358-3									
Delta-BHC	60		89		30-150	**39**	Q	30	A
Lindane	52		83		30-150	**46**	Q	30	A
Alpha-BHC	55		88		30-150	**46**	Q	30	A
Beta-BHC	60		103		30-150	**53**	Q	30	A
Heptachlor	54		85		30-150	**45**	Q	30	A
Aldrin	51		84		30-150	**49**	Q	30	A
Endrin	57		91		30-150	**46**	Q	30	A
Dieldrin	60		96		30-150	**46**	Q	30	A
4,4'-DDE	55		88		30-150	**46**	Q	30	A
4,4'-DDD	60		97		30-150	**47**	Q	30	A
4,4'-DDT	60		98		30-150	**48**	Q	30	A
Endosulfan I	54		87		30-150	**47**	Q	30	A
Endosulfan II	59		92		30-150	**44**	Q	30	A
Endosulfan sulfate	52		80		30-150	**42**	Q	30	A
cis-Chlordane	57		91		30-150	**46**	Q	30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		70		30-150	A
Decachlorobiphenyl	57		90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	43		67		30-150	B
Decachlorobiphenyl	53		86		30-150	B

METALS

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01 Date Collected: 08/03/23 15:30

Client ID: EHS-DE-CIM Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	15.1		mg/kg	0.408	0.085	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Barium, Total	40.7		mg/kg	0.408	0.071	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.557		mg/kg	0.204	0.013	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.086	J	mg/kg	0.408	0.040	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Chromium, Total	11.0		mg/kg	0.408	0.039	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Copper, Total	16.1		mg/kg	0.408	0.105	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Lead, Total	14.7		mg/kg	2.04	0.109	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Manganese, Total	315		mg/kg	0.408	0.065	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Mercury, Total	ND		mg/kg	0.072	0.047	1	08/23/23 16:35	08/23/23 23:20	EPA 7471B	1,7471B	GMG
Nickel, Total	15.6		mg/kg	1.02	0.099	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Selenium, Total	0.327	J	mg/kg	0.815	0.105	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Silver, Total	0.138	J	mg/kg	0.204	0.115	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Zinc, Total	41.8		mg/kg	2.04	0.119	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	10.8	J	mg/kg	0.844	0.169	1		08/23/23 13:03	NA	107,-	

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02 Date Collected: 08/03/23 15:15

Client ID: EHS-DE-PMC Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	8.65		mg/kg	0.452	0.094	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Barium, Total	85.2		mg/kg	0.452	0.079	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Beryllium, Total	1.12		mg/kg	0.226	0.015	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.091	J	mg/kg	0.452	0.044	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Chromium, Total	21.4		mg/kg	0.452	0.043	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Copper, Total	23.9		mg/kg	0.452	0.117	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Lead, Total	17.5		mg/kg	2.26	0.121	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Manganese, Total	236		mg/kg	0.452	0.072	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Mercury, Total	ND		mg/kg	0.078	0.051	1	08/23/23 16:35	08/23/23 23:23	EPA 7471B	1,7471B	GMG
Nickel, Total	27.1		mg/kg	1.13	0.109	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Selenium, Total	0.222	J	mg/kg	0.905	0.117	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.226	0.128	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Zinc, Total	39.9		mg/kg	2.26	0.132	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	21.4		mg/kg	0.907	0.181	1		08/23/23 13:06	NA	107,-	

Project Name: EHS-CAPITAL IMPROVEMENTS
Lab Number: L2345016
Project Number: 2021-01
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY
Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 100%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	1.67		mg/kg	0.397	0.083	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Barium, Total	354		mg/kg	0.397	0.069	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.082	J	mg/kg	0.198	0.013	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Cadmium, Total	ND		mg/kg	0.397	0.039	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Chromium, Total	7.66		mg/kg	0.397	0.038	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Copper, Total	0.704		mg/kg	0.397	0.102	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Lead, Total	1.69	J	mg/kg	1.98	0.106	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Manganese, Total	3.83		mg/kg	0.397	0.063	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Mercury, Total	ND		mg/kg	0.075	0.049	1	08/23/23 16:35	08/23/23 23:27	EPA 7471B	1,7471B	GMG
Nickel, Total	0.633	J	mg/kg	0.992	0.096	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Selenium, Total	ND		mg/kg	0.794	0.102	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.198	0.112	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Zinc, Total	1.30	J	mg/kg	1.98	0.116	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.27	J	mg/kg	0.802	0.160	1		08/23/23 13:09	NA	107,-	

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1813262-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Barium, Total	ND		mg/kg	0.400	0.070	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Beryllium, Total	ND		mg/kg	0.200	0.013	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Cadmium, Total	ND		mg/kg	0.400	0.039	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Chromium, Total	ND		mg/kg	0.400	0.038	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Copper, Total	ND		mg/kg	0.400	0.103	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Lead, Total	ND		mg/kg	2.00	0.107	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Manganese, Total	ND		mg/kg	0.400	0.064	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Nickel, Total	ND		mg/kg	1.00	0.097	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Selenium, Total	ND		mg/kg	0.800	0.103	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Silver, Total	ND		mg/kg	0.200	0.113	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Zinc, Total	ND		mg/kg	2.00	0.117	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1819134-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	08/23/23 16:35	08/23/23 21:58	1,7471B	GMG

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1813262-2 SRM Lot Number: D119-540								
Arsenic, Total	102		-		83-117	-		
Barium, Total	104		-		82-118	-		
Beryllium, Total	106		-		83-117	-		
Cadmium, Total	97		-		82-117	-		
Chromium, Total	102		-		82-119	-		
Copper, Total	97		-		84-116	-		
Lead, Total	107		-		82-118	-		
Manganese, Total	98		-		82-118	-		
Nickel, Total	100		-		82-117	-		
Selenium, Total	106		-		79-121	-		
Silver, Total	97		-		80-120	-		
Zinc, Total	100		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1819134-2 SRM Lot Number: D119-540								
Mercury, Total	90		-		73-127	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1813262-3 QC Sample: L2344421-01 Client ID: MS Sample												
Arsenic, Total	5.12	12	16.4	94		-	-		75-125	-		20
Barium, Total	111	201	306	97		-	-		75-125	-		20
Beryllium, Total	0.571	5.02	5.67	102		-	-		75-125	-		20
Cadmium, Total	ND	5.32	4.74	89		-	-		75-125	-		20
Chromium, Total	16.9	20.1	36.5	98		-	-		75-125	-		20
Copper, Total	31.8	25.1	51.6	79		-	-		75-125	-		20
Lead, Total	28.5	53.2	82.4	101		-	-		75-125	-		20
Manganese, Total	288	50.2	326	76		-	-		75-125	-		20
Nickel, Total	15.8	50.2	61.6	91		-	-		75-125	-		20
Selenium, Total	0.726J	12	11.7	97		-	-		75-125	-		20
Silver, Total	ND	5.02	4.82	96		-	-		75-125	-		20
Zinc, Total	54.1	50.2	103	97		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1819134-3 QC Sample: L2344832-01 Client ID: MS Sample												
Mercury, Total	ND	1.78	1.64	92		-	-		80-120	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1813262-4 QC Sample: L2344421-01 Client ID: DUP Sample						
Arsenic, Total	5.12	5.14	mg/kg	0		20
Barium, Total	111	130	mg/kg	16		20
Beryllium, Total	0.571	0.506	mg/kg	12		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	16.9	16.3	mg/kg	4		20
Copper, Total	31.8	27.3	mg/kg	15		20
Lead, Total	28.5	32.3	mg/kg	13		20
Manganese, Total	288	274	mg/kg	5		20
Nickel, Total	15.8	14.9	mg/kg	6		20
Selenium, Total	0.726J	0.813J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Zinc, Total	54.1	49.3	mg/kg	9		20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1819134-4 QC Sample: L2344832-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2345016
Report Date: 08/24/23

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1813262-6 QC Sample: L2344421-01 Client ID: DUP Sample						
Barium, Total	111	115	mg/kg	4		20
Copper, Total	31.8	31.7	mg/kg	0		20
Manganese, Total	288	304	mg/kg	6		20

INORGANICS
&
MISCELLANEOUS

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY
Sample Depth:
Matrix: Soil

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.8		%	0.100	NA	1	-	08/05/23 11:11	121,2540G	ROI
Cyanide, Total	ND		mg/kg	0.99	0.21	1	08/11/23 14:30	08/11/23 19:20	1,9010C/9012B	JRO
Chromium, Hexavalent	0.179	J	mg/kg	0.844	0.169	1	08/16/23 12:40	08/17/23 12:05	1,7196A	DTH

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02
Client ID: EHS-DE-PMC
Sample Location: ELMIRA, NY
Sample Depth:
Matrix: Soil

Date Collected: 08/03/23 15:15
Date Received: 08/03/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.2		%	0.100	NA	1	-	08/05/23 11:11	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	08/11/23 14:30	08/11/23 19:02	1,9010C/9012B	JRO
Chromium, Hexavalent	ND		mg/kg	0.907	0.181	1	08/16/23 12:40	08/17/23 12:05	1,7196A	DTH

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99.7		%	0.100	NA	1	-	08/05/23 11:11	121,2540G	ROI
Cyanide, Total	ND		mg/kg	0.98	0.21	1	08/11/23 14:30	08/11/23 19:03	1,9010C/9012B	JRO
Chromium, Hexavalent	0.391	J	mg/kg	0.802	0.160	1	08/16/23 12:40	08/17/23 12:05	1,7196A	DTH

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02-03 Batch: WG1814811-1										
Cyanide, Total	ND		mg/kg	0.97	0.20	1	08/11/23 14:30	08/11/23 18:41	1,9010C/9012B	JRO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1814813-1										
Cyanide, Total	ND		mg/kg	0.98	0.21	1	08/11/23 14:30	08/11/23 19:14	1,9010C/9012B	JRO
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1816542-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	08/16/23 12:40	08/17/23 12:05	1,7196A	DTH

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-03 Batch: WG1814811-2 WG1814811-3								
Cyanide, Total	**76**	Q	95		80-120	22		35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1814813-2 WG1814813-3								
Cyanide, Total	**53**	Q	**71**	Q	80-120	18		35
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1816542-2								
Chromium, Hexavalent	80		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG1814811-4 WG1814811-5 QC Sample: L2346238-01 Client ID: MS Sample												
Cyanide, Total	ND	11	9.9	93		10	100		75-125	1		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1814813-4 WG1814813-5 QC Sample: L2345016-01 Client ID: EHS-DE-CIM												
Cyanide, Total	ND	9.6	9.5	99		10	100		75-125	5		35
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1816542-4 QC Sample: L2345016-03 Client ID: EHS-DE-CCC												
Chromium, Hexavalent	0.391J	1270	1100	86		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1812226-1 QC Sample: L2344817-01 Client ID: DUP Sample						
Solids, Total	64.1	65.0	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1816542-6 QC Sample: L2345016-03 Client ID: EHS-DE-CCC						
Chromium, Hexavalent	0.391J	0.441J	mg/kg	NC		20

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2345016-01A	Vial MeOH preserved	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2345016-01B	Vial water preserved	A	NA		3.5	Y	Absent	04-AUG-23 11:01	NYTCL-8260HLW(14)
L2345016-01C	Vial water preserved	A	NA		3.5	Y	Absent	04-AUG-23 11:01	NYTCL-8260HLW(14)
L2345016-01D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2345016-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),MN-TI(180),HG-T(28),CD-TI(180)
L2345016-01F	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		HEXCR-7196(30)
L2345016-01G	Plastic 8oz unpreserved	A	NA		3.5	Y	Absent		A2-NY-537-ISOTOPE(90)
L2345016-01H	Plastic 8oz unpreserved	A	NA		3.5	Y	Absent		HOLD-537(14)
L2345016-01I	Glass 500ml/16oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2345016-02A	Vial MeOH preserved	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2345016-02B	Vial water preserved	A	NA		3.5	Y	Absent	04-AUG-23 11:01	NYTCL-8260HLW(14)
L2345016-02C	Vial water preserved	A	NA		3.5	Y	Absent	04-AUG-23 11:01	NYTCL-8260HLW(14)
L2345016-02D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2345016-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SE-TI(180),MN-TI(180),HG-T(28),CD-TI(180)
L2345016-02F	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		HEXCR-7196(30)
L2345016-02G	Plastic 8oz unpreserved	A	NA		3.5	Y	Absent		A2-NY-537-ISOTOPE(90)
L2345016-02H	Plastic 8oz unpreserved	A	NA		3.5	Y	Absent		HOLD-537(14)
L2345016-02I	Glass 500ml/16oz unpreserved	A	NA		3.5	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2345016-03A	Vial MeOH preserved	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2345016-03B	Vial water preserved	A	NA		3.5	Y	Absent	04-AUG-23 11:01	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2345016-03C	Vial water preserved	A	NA		3.5	Y	Absent	04-AUG-23 11:01	NYTCL-8260HLW(14)
L2345016-03D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2345016-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L2345016-03F	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		HEXCR-7196(30)
L2345016-03G	Plastic 8oz unpreserved	A	NA		3.5	Y	Absent		A2-NY-537-ISOTOPE(90)
L2345016-03H	Plastic 8oz unpreserved	A	NA		3.5	Y	Absent		HOLD-537(14)
L2345016-03I	Glass 500ml/16oz unpreserved	A	NA		3.5	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)

*Values in parentheses indicate holding time in days

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

Project Name:	EHS-CAPITAL IMPROVEMENTS	**Lab Number:**	L2345016
Project Number:	2021-01	**Report Date:**	08/24/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	EHS-CAPITAL IMPROVEMENTS	**Lab Number:**	L2345016
Project Number:	2021-01	**Report Date:**	08/24/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	EHS-CAPITAL IMPROVEMENTS	**Lab Number:**	L2345016
Project Number:	2021-01	**Report Date:**	08/24/23

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	EHS-CAPITAL IMPROVEMENTS	**Lab Number:**	L2345016
Project Number:	2021-01	**Report Date:**	08/24/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page | of |

Date Rec'd in Lab: 8/4/23

ALPHA Job #: L2345016

Client Information
Client: Sterling Env. Eng.
Address: 24 Wade Rd
Latham, NY 12110
Phone: 518-456-4900
Fax:
Email:

Project Information
Project Name: EHS - Capital Improvements
Project Location: Elmira, NY
Project # 2021-01
(Use Project name as Project #) ☐
Project Manager: M. Deyo / A. Millspaugh
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other CAT. B

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☒ Other DER-10
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
andrew.millspaugh@sterlingenvironmental.com
amanda.castignetti@sterlingenvironmental.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	DER-10 Total Metals, Hg, Hex Cr, Cyanide	DER-10 VOCs (8260)	DER-10 SVOCs (8270)	DER-10 Pests/Herbs (8081, 8151)	Total PCBs (8082)	Total Solids	PFAS/SPLP * (537.1 Modified)	Sample Specific Comments	Total Bottle
48016-01	EHS-DE-CIM	8-3-2023	1530	SOIL	PWS	X	X	X	X	X	X	X	* SPLP only if exceedence of guidelines *	9
-02	EHS-DE-PMC	8-3-2023	1515	SOIL	PWS	X	X	X	X	X	X	X		9
-03	EHS-DE-CCC	8-3-2023	1500	SOIL	PWS	X	X	X	X	X	X	X		9

Container Type: A | A | A | A | A | P | P
Preservative: A | NP | A | A | A | A | A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	8-3-2023		8/3/23 1720
	8/3/23 1720		8/4/23 0100

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION

ACTIVE AND ABANDONED MINE OPERATIONS

BUREAU OF MINING PROGRAMS

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

NONCOAL OPERATOR LICENSE - LARGE MINE

MINING WITH CONSERVATION STANDS FOR PROGRESS

This is to certify that the following person has been duly licensed to engage in mining in the Commonwealth of Pennsylvania until the date of expiration, as shown below:

Name: NATURAL SAND COMPANY, INC.

Address: 149 S BROAD ST
GROVE CITY PA 16127-1522

License Number: 19783

License Issued: 03/14/2023

License Expires: **02/29/2024**

Any person who proceeds to conduct mining activities without a valid authorization or in violation of the terms of the authorization shall be guilty of a misdemeanor and subject to fine or imprisonment, as provided in the 'Noncoal Surface Mining Conservation and Reclamation Act.' This license may be suspended or revoked for failure to comply with the terms of the authorization, the applicable regulations or applicable laws. The terms of this authorization shall include: 1) Operator shall at all times comply with the 'The Clean Streams Law of Pennsylvania' and the 'Noncoal Surface Mining Conservation and Reclamation Act' and the rules and regulations, orders and permits issued under these acts. 2) Licensee shall not proceed to mine minerals by the surface mining method activities without a valid surface mining permit. 3) This certificate shall be displayed at the legal address of the licensee.

Director, Bureau of Mining Programs

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? no

Classic Infield Mix

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 300-400

If greater than 1000 cubic yards will be imported, enter volume to be imported: N/A

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? no

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Samples were collected from the clay/sand mixture generated from a permitted mine, the Varos Mine, in Sarvar, Pennsylvania. In accordance with NYSDEC's July 20, 2023 email (see attached) and DER-10 Appendix 5, one (1) grab sample was collected for VOC analyses, and one (1) composite sample was collected and analyzed for inorganics, SVOCs, PCBs, pesticides, herbicides and PFAS Compounds.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

None of the analyzed compounds were detected at concentrations above the DER-10 Appendix 5 allowable levels for Restricted Residential Use. See the attached data table and analytical report for details.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Natural Sand Company, Inc.

Location where fill was obtained:

Varos Mine, Sarvar, Pennsylvania

Identification of any state or local approvals as a fill source:

Mine ID #36-10143

If no approvals are available, provide a brief history of the use of the property that is the fill source:

NA

Provide a list of supporting documentation included with this request:

Results Summary Table, Laboratory Analytical Report

The information provided on this form is accurate and complete.



Signature

09/07/2023

Date

Andrew M. Millspaugh, P.E.

Print Name

Sterling Environmental Engineering, P.C.

Firm

Andrew Millspaugh

From: Schneider, Timothy A (DEC) <timothy.schneider@dec.ny.gov>
Sent: Thursday, July 20, 2023 3:49 PM
To: Andrew Millspaugh; Howe, Alexander; McCartney, W Scott; Zappia, Kaleigh M (DEC); Pratt, David (DEC); Bogardus, Sara (HEALTH); Bonsteel, Nicole; Whelan, Vincent; haustin@elmiracityschools.com; Granato, Donald; Fizzano, Thomas
Cc: Etter, Terry R.; akrasnopoler@geosyntec.com; Kaitlin Ouverson; Amanda McNally; Lawrence Endicott; Kyle Cunningham; Cyr, Scott; Amanda McNally; Amanda Castignetti; mdunn; Mike Fulkerson; Krueger, Kevin D.; Jen Huha; Miranda Stelmach
Subject: RE: NYSDEC #c808022 - ECSD Ballfield Products

Categories: Projects

Hi Andrew,

As discussed on today's technical call, sampling will be required to support the import of materials identified as "soil" or "clay" at a frequency of one set per product, regardless of the volume imported. Other products not identified as such are considered building materials and not subject to import sampling.

Regards,

Tim

Timothy A. Schneider P.E.
Pronouns: he / him / his
Professional Engineer 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
6274 East Avon-Lima Road, Avon, NY 14414
P: (585) 226-5480 | F: (585) 226-8139 | timothy.schneider@dec.ny.gov
www.dec.ny.gov | | |

This electronic message may contain privileged or confidential information. If you are not the intended recipient of this e-mail, please delete it from your system and advise the sender.

From: Andrew Millspaugh <Andrew.Millspaugh@sterlingenvironmental.com>
Sent: Wednesday, July 19, 2023 11:13 AM
To: Schneider, Timothy A (DEC) <timothy.schneider@dec.ny.gov>; Howe, Alexander <alexander.howe@wsp.com>; McCartney, W Scott <w.scott.mccartney@wsp.com>; Zappia, Kaleigh M (DEC) <Kaleigh.Zappia@dec.ny.gov>; Pratt, David (DEC) <david.pratt@dec.ny.gov>; Bogardus, Sara (HEALTH) <Sara.Bogardus@health.ny.gov>; Bonsteel, Nicole <nicole.bonsteel@wsp.com>; Whelan, Vincent <vincent.whelan@wsp.com>; Granato, Donald <donald.granato@wsp.com>; Fizzano, Thomas <thomas.fizzano@wsp.com>
Cc: Etter, Terry R. <terry.etter@unisys.com>; akrasnopoler@geosyntec.com; Kaitlin Ouverson <KOuverson@Geosyntec.com>; Amanda McNally <AMcNally@Geosyntec.com>; Lawrence Endicott <larry.endicott@keller-na.com>; Kyle Cunningham <kyle.cunningham@reconservices.com>; Cyr, Scott <cyrs@hunt-eas.com>; Amanda McNally <AMcNally@Geosyntec.com>; Amanda.Castignetti@SterlingEnvironmental.com; mdunn <mdunn@buildwelliver.com>; Mike Fulkerson <mfulkerson@buildwelliver.com>; Krueger, Kevin D. <Kevin.Krueger@unisys.com>; Jen Huha <JHuha@Geosyntec.com>; Miranda Stelmach <MStelmach@Geosyntec.com>
Subject: NYSDEC #c808022 - ECSD Ballfield Products

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Good Morning Tim,

ECSD will need to import the four products bulleted below for the baseball and softball fields. These are manufactured products with product sheets and Safety Data Sheets (copies attached) that are routinely used at ballfields across the country. We wanted to check with the Department if these products will require import testing or not since they are manufactured products.

- DuraEdge Infield Mix
- DuraEdge Mound Clay
- DuraEdge Clay Bricks
- DuraEdge Conditioner

Thanks,

Andrew M. Millspaugh, P.E.
Sterling Environmental Engineering, P.C.
Cell: (518) 573-4378
andrew.millspaugh@sterlingenvironmental.com
www.sterlingenvironmental.com

-LAEmHhHzdJzBlTWfa4Hgs7pbKI

Table 1

Summary of Analytical Results - Classic Infield Mix
DuraEdge Products, Inc. - Slippery Rock, PA.
ECSD Capital Construction

	NY-DER10-RRU	EHS-DE-CIM 8/3/2023
VOLATILE ORGANICS BY EPA 5035, mg/kg		
1,1,1-Trichloroethane	0.68	0.00018 U
1,1-Dichloroethane	0.27	0.00016 U
1,1-Dichloroethene	0.33	0.00026 U
1,2,4-Trimethylbenzene	3.6	0.00036 U
1,2-Dichlorobenzene	1.1	0.00015 U
1,2-Dichloroethane	0.02	0.00028 U
1,3,5-Trimethylbenzene	8.4	0.00021 U
1,3-Dichlorobenzene	2.4	0.00016 U
1,4-Dichlorobenzene	1.8	0.00018 U
1,4-Dioxane	0.1	0.038 U
2-Butanone	0.12	0.0024 U
Acetone	0.05	0.0052 U
Benzene	0.06	0.00018 U
Carbon tetrachloride	0.76	0.00025 U
Chlorobenzene	1.1	0.00014 U
Chloroform	0.37	0.00015 U
cis-1,2-Dichloroethene	0.25	0.00019 U
Ethylbenzene	1	0.00015 U
Methyl tert butyl ether	0.93	0.00022 U
Methylene chloride	0.05	0.0024 U
n-Butylbenzene	12	0.00018 U
n-Propylbenzene	3.9	0.00018 U
o-Xylene	---	0.00031 U
p/m-Xylene	---	0.0006 U
sec-Butylbenzene	11	0.00016 U
tert-Butylbenzene	5.9	0.00013 U
Tetrachloroethene	1.3	0.00021 U
Toluene	0.7	0.00058 U
trans-1,2-Dichloroethene	0.19	0.00015 U
Trichloroethene	0.47	0.00015 U
Vinyl chloride	0.02	0.00036 U
PERFLUORINATED ALKYL ACIDS BY ISOTOPE DILUTION, mg/kg		
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	---	0.000284 U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	---	0.000177 U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	---	0.000084 U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	---	0.000199 U
Perfluorobutanesulfonic Acid (PFBS)	---	0.000039 U
Perfluorobutanoic Acid (PFBA)	---	0.000022 U
Perfluorodecanesulfonic Acid (PFDS)	---	0.000151 U
Perfluorodecanoic Acid (PFDA)	---	0.000066 U
Perfluorododecanoic Acid (PFDoA)	---	0.000069 U
Perfluoroheptanesulfonic Acid (PFHpS)	---	0.000135 U
Perfluoroheptanoic Acid (PFHpA)	---	0.000045 U
Perfluorohexanesulfonic Acid (PFHxS)	---	0.00006 U
Perfluorohexanoic Acid (PFHxA)	---	0.000052 U
Perfluorononanoic Acid (PFNA)	---	0.000074 U
Perfluorooctanesulfonamide (FOSA)	---	0.000097 U
Perfluorooctanesulfonic Acid (PFOS)	0.044	0.000128 U
Perfluorooctanoic Acid (PFOA)	0.033	0.000041 U
Perfluoropentanoic Acid (PFPeA)	---	0.000045 U
Perfluorotetradecanoic Acid (PFTA)	---	0.000053 U
Perfluorotridecanoic Acid (PFTrDA)	---	0.000202 U
Perfluoroundecanoic Acid (PFUnA)	---	0.000046 U
PFOA/PFOS, Total		0.000041 U
SEMIVOLATILE ORGANICS BY GC/MS, mg/kg		
2-Methylphenol	0.33	0.027 U
3-Methylphenol/4-Methylphenol	0.33	0.027 U
Acenaphthene	98	0.018 U
Acenaphthylene	100	0.027 U
Anthracene	100	0.034 U
Benzo(a)anthracene	1	0.02 U
Benzo(a)pyrene	1	0.043 U
Benzo(b)fluoranthene	1	0.03 U
Benzo(ghi)perylene	100	0.021 U
Benzo(k)fluoranthene	1.7	0.028 U
Chrysene	1	0.018 U
Dibenzo(a,h)anthracene	0.33	0.02 U
Dibenzofuran	59	0.016 U
Fluoranthene	100	0.02 U
Fluorene	100	0.017 U
Hexachlorobenzene	1.2	0.02 U
Indeno(1,2,3-cd)pyrene	0.5	0.024 U
Naphthalene	12	0.021 U
Pentachlorophenol	0.8	0.038 U
Phenanthrene	100	0.021 U
Phenol	0.33	0.026 U
Pyrene	100	0.017 U

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Table 1

Summary of Analytical Results - Classic Infield Mix
DuraEdge Products, Inc. - Slippery Rock, PA.
ECSD Capital Construction

	NY-DER10-RRU	EHS-DE-CIM 8/3/2023
CHLORINATED HERBICIDES BY GC, mg/kg		
2,4,5-TP (Silvex)	3.8	0.00459 U
ORGANOCHLORINE PESTICIDES BY GC, mg/kg		
4,4'-DDD	13	0.000589 U
4,4'-DDE	8.9	0.000382 U
4,4'-DDT	7.9	0.00133 U
Aldrin	0.097	0.000581 U
Alpha-BHC	0.02	0.000195 U
Beta-BHC	0.09	0.000626 U
cis-Chlordane	2.9	0.000575 U
Delta-BHC	0.25	0.000323 U
Dieldrin	0.1	0.000516 U
Endosulfan I	24	0.00039 U
Endosulfan II	24	0.000551 U
Endosulfan sulfate	24	0.000327 U
Endrin	0.06	0.000282 U
Heptachlor	0.38	0.00037 U
Lindane	0.1	0.000307 U
POLYCHLORINATED BIPHENYLS BY GC, mg/kg		
Aroclor 1016	1	0.00467 U
Aroclor 1221	1	0.00527 U
Aroclor 1232	1	0.0112 U
Aroclor 1242	1	0.0071 U
Aroclor 1248	1	0.0079 U
Aroclor 1254	1	0.00576 U
Aroclor 1260	1	0.00973 U
Aroclor 1262	1	0.00668 U
Aroclor 1268	1	0.00545 U
PCBs, Total	1	0.00467 U
GENERAL CHEMISTRY, mg/kg		
Chromium, Hexavalent	19	0.179 J
Chromium, Trivalent	180	10.8 J
Cyanide, Total	27	0.21 U
Solids, Total	---	94.8
TOTAL METALS, mg/kg		
Arsenic, Total	16	15.1
Barium, Total	400	40.7
Beryllium, Total	47	0.557
Cadmium, Total	4.3	0.086 J
Chromium, Total	---	11
Copper, Total	270	16.1
Lead, Total	400	14.7
Manganese, Total	2000	315
Mercury, Total	0.73	0.047 U
Nickel, Total	130	15.6
Selenium, Total	4	0.327 J
Silver, Total	8.3	0.138 J
Zinc, Total	2480	41.8

NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10, May 3, 2010.

PFOA and PFOS standards from NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances under NYSDEC Part 375 Remedial Programs, November 2022.

---: No applicable standard.

U: Not Detected. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

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ANALYTICAL REPORT

Lab Number:	L2345016
Client:	Sterling Environmental Engineering 24 Wade Road Latham, NY 12110
ATTN:	Andrew Millspaugh
Phone:	(518) 456-4900
Project Name:	EHS-CAPITAL IMPROVEMENTS
Project Number:	2021-01
Report Date:	08/24/23

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2345016-01	EHS-DE-CIM	SOIL	ELMIRA, NY	08/03/23 15:30	08/03/23
L2345016-02	EHS-DE-PMC	SOIL	ELMIRA, NY	08/03/23 15:15	08/03/23
L2345016-03	EHS-DE-CCC	SOIL	ELMIRA, NY	08/03/23 15:00	08/03/23

Project Name:	EHS-CAPITAL IMPROVEMENTS	**Lab Number:**	L2345016
Project Number:	2021-01	**Report Date:**	08/24/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	EHS-CAPITAL IMPROVEMENTS	**Lab Number:**	L2345016
Project Number:	2021-01	**Report Date:**	08/24/23

Case Narrative (continued)

Report Submission

August 24, 2023: This final report includes the results of all requested analyses.

August 17, 2023: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by Isotope Dilution

L2345016-01R: The sample was re-analyzed due to QC failures in the original analysis. The results of the re-analysis are reported.

L2345016-02, -03, WG1812376-1, WG1812376-2, WG1812376-3, and WG1812376-4: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

L2345016-03: The MeOH fraction of the extraction is reported for perfluorooctanesulfonamide (fosa) due to better extraction efficiency of the perfluoro[13c8]octanesulfonamide (m8fosa) Extracted Internal Standard.

Cyanide, Total

The WG1814811-2 LCS recovery for cyanide, total (76%), associated with L2345016-02 and -03, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1814813-2/-3 LCS/LCSD recoveries for cyanide, total (53%/71%), associated with L2345016-01, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly O'Neill

Title: Technical Director/Representative Date: 08/24/23

ORGANICS

VOLATILES

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 08/15/23 14:50
Analyst: LAC
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.22	1
p/m-Xylene	ND		ug/kg	2.1	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Acetone	ND		ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.4	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.1	0.13	1
n-Propylbenzene	ND		ug/kg	1.1	0.18	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01 Date Collected: 08/03/23 15:30

Client ID: EHS-DE-CIM Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.36	1
1,4-Dioxane	ND		ug/kg	86	38.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	100		70-130

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02
Client ID: EHS-DE-PMC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:15
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 08/15/23 15:16
Analyst: LAC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
Tetrachloroethene	ND		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.13	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Benzene	ND		ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.0	0.58	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.53	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Acetone	ND		ug/kg	10	5.1	1
2-Butanone	ND		ug/kg	10	2.4	1
n-Butylbenzene	ND		ug/kg	1.0	0.18	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
n-Propylbenzene	ND		ug/kg	1.0	0.18	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02 Date Collected: 08/03/23 15:15

Client ID: EHS-DE-PMC Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	85	37.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 08/15/23 15:42
Analyst: LAC
Percent Solids: 100%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	11	5.2	1
1,1-Dichloroethane	ND		ug/kg	2.3	0.33	1
Chloroform	ND		ug/kg	3.4	0.32	1
Carbon tetrachloride	ND		ug/kg	2.3	0.53	1
Tetrachloroethene	ND		ug/kg	1.1	0.45	1
Chlorobenzene	ND		ug/kg	1.1	0.29	1
1,2-Dichloroethane	ND		ug/kg	2.3	0.59	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.38	1
Benzene	ND		ug/kg	1.1	0.38	1
Toluene	3.5		ug/kg	2.3	1.2	1
Ethylbenzene	0.95	J	ug/kg	2.3	0.32	1
Vinyl chloride	ND		ug/kg	2.3	0.77	1
1,1-Dichloroethene	ND		ug/kg	2.3	0.54	1
trans-1,2-Dichloroethene	ND		ug/kg	3.4	0.31	1
Trichloroethene	ND		ug/kg	1.1	0.31	1
1,2-Dichlorobenzene	ND		ug/kg	4.6	0.33	1
1,3-Dichlorobenzene	ND		ug/kg	4.6	0.34	1
1,4-Dichlorobenzene	ND		ug/kg	4.6	0.39	1
Methyl tert butyl ether	ND		ug/kg	4.6	0.46	1
p/m-Xylene	4.0	J	ug/kg	4.6	1.3	1
o-Xylene	1.5	J	ug/kg	2.3	0.67	1
cis-1,2-Dichloroethene	ND		ug/kg	2.3	0.40	1
Acetone	29		ug/kg	23	11.	1
2-Butanone	ND		ug/kg	23	5.1	1
n-Butylbenzene	ND		ug/kg	2.3	0.38	1
sec-Butylbenzene	ND		ug/kg	2.3	0.33	1
tert-Butylbenzene	ND		ug/kg	4.6	0.27	1
n-Propylbenzene	0.53	J	ug/kg	2.3	0.39	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03 Date Collected: 08/03/23 15:00

Client ID: EHS-DE-CCC Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	0.85	J	ug/kg	4.6	0.44	1
1,2,4-Trimethylbenzene	3.8	J	ug/kg	4.6	0.76	1
1,4-Dioxane	ND		ug/kg	180	80.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	101		70-130

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/15/23 10:56
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1816171-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Vinyl chloride	ND		ug/kg	1.0	0.34
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Acetone	ND		ug/kg	10	4.8
2-Butanone	ND		ug/kg	10	2.2
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/15/23 10:56
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1816171-5					
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1816171-3 WG1816171-4								
Methylene chloride	90		89		70-130	1		30
1,1-Dichloroethane	96		92		70-130	4		30
Chloroform	93		91		70-130	2		30
Carbon tetrachloride	82		79		70-130	4		30
Tetrachloroethene	84		79		70-130	6		30
Chlorobenzene	92		88		70-130	4		30
1,2-Dichloroethane	97		95		70-130	2		30
1,1,1-Trichloroethane	91		88		70-130	3		30
Benzene	94		91		70-130	3		30
Toluene	88		83		70-130	6		30
Ethylbenzene	92		87		70-130	6		30
Vinyl chloride	98		94		67-130	4		30
1,1-Dichloroethene	88		83		65-135	6		30
trans-1,2-Dichloroethene	91		87		70-130	4		30
Trichloroethene	93		89		70-130	4		30
1,2-Dichlorobenzene	93		88		70-130	6		30
1,3-Dichlorobenzene	92		87		70-130	6		30
1,4-Dichlorobenzene	91		85		70-130	7		30
Methyl tert butyl ether	94		95		66-130	1		30
p/m-Xylene	94		89		70-130	5		30
o-Xylene	93		88		70-130	6		30
cis-1,2-Dichloroethene	92		89		70-130	3		30
Acetone	86		91		54-140	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1816171-3 WG1816171-4								
2-Butanone	89		94		70-130	5		30
n-Butylbenzene	98		90		70-130	9		30
sec-Butylbenzene	95		86		70-130	10		30
tert-Butylbenzene	93		85		70-130	9		30
n-Propylbenzene	98		90		70-130	9		30
1,3,5-Trimethylbenzene	95		88		70-130	8		30
1,2,4-Trimethylbenzene	95		89		70-130	7		30
1,4-Dioxane	88		93		65-136	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		103		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	102		100		70-130
Dibromofluoromethane	98		100		70-130

SEMIVOLATILES

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 08/14/23 19:28
Analyst: IM
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 11:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Fluoranthene	ND		ug/kg	100	20.	1
Naphthalene	ND		ug/kg	180	21.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	100	30.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Dibenzofuran	ND		ug/kg	180	16.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01 Date Collected: 08/03/23 15:30

Client ID: EHS-DE-CIM Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	107		30-120
2,4,6-Tribromophenol	102		10-136
4-Terphenyl-d14	94		18-120

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01 R
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 08/07/23 19:23
Analyst: SG
Percent Solids: 95%

Extraction Method: ALPHA 23528
Extraction Date: 08/06/23 06:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.494	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.494	0.045	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.247	0.039	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.494	0.052	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.247	0.045	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.247	0.060	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.247	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.494	0.177	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.494	0.135	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.247	0.074	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.247	0.128	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.247	0.066	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.494	0.284	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.494	0.199	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.494	0.046	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.494	0.151	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.494	0.097	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.494	0.084	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.494	0.069	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.494	0.202	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.494	0.053	1
PFOA/PFOS, Total	ND		ng/g	0.247	0.041	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01 R
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	101		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	108		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	149		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	87		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	152		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	58		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	67		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	60		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	103		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	77		24-159

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02
Client ID: EHS-DE-PMC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:15
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 08/14/23 19:47
Analyst: IM
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 11:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Fluoranthene	ND		ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	19.	1
Dibenzofuran	23	J	ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1
1,4-Dioxane	ND		ug/kg	28	8.6	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02 Date Collected: 08/03/23 15:15

Client ID: EHS-DE-PMC Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	69		18-120

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02
Client ID: EHS-DE-PMC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:15
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 08/06/23 16:02
Analyst: SG
Percent Solids: 88%

Extraction Method: ALPHA 23528
Extraction Date: 08/06/23 06:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.552	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.552	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.276	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.552	0.058	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.276	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.276	0.067	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.276	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.552	0.198	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.552	0.151	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.276	0.083	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.276	0.143	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.276	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.552	0.317	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.552	0.222	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.552	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.552	0.169	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.552	0.108	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.552	0.093	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.552	0.077	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.552	0.226	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.552	0.060	1
PFOA/PFOS, Total	ND		ng/g	0.276	0.046	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02 Date Collected: 08/03/23 15:15

Client ID: EHS-DE-PMC Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	99		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	103		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	103		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	88		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	103		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**172**	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	100		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	104		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**184**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	56		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	107		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	32		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	63		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	95		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	86		24-159

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 08/15/23 04:56
Analyst: IM
Percent Solids: 100%

Extraction Method: EPA 3540C
Extraction Date: 08/13/23 15:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	130	17.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Fluoranthene	ND		ug/kg	100	19.	1
Naphthalene	ND		ug/kg	170	20.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	130	40.	1
Benzo(b)fluoranthene	ND		ug/kg	100	28.	1
Benzo(k)fluoranthene	ND		ug/kg	100	26.	1
Chrysene	ND		ug/kg	100	17.	1
Acenaphthylene	ND		ug/kg	130	26.	1
Anthracene	ND		ug/kg	100	32.	1
Benzo(ghi)perylene	ND		ug/kg	130	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	ND		ug/kg	100	20.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.	1
Pyrene	ND		ug/kg	100	16.	1
Dibenzofuran	ND		ug/kg	170	16.	1
Pentachlorophenol	ND		ug/kg	130	36.	1
Phenol	ND		ug/kg	170	25.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.	1
1,4-Dioxane	ND		ug/kg	25	7.6	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03 Date Collected: 08/03/23 15:00

Client ID: EHS-DE-CCC Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	84		18-120

Project Name: EHS-CAPITAL IMPROVEMENTS
Lab Number: L2345016
Project Number: 2021-01
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 08/06/23 16:36
Analyst: SG
Percent Solids: 100%

Extraction Method: ALPHA 23528
Extraction Date: 08/06/23 06:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.490	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.490	0.045	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.245	0.038	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.490	0.052	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.245	0.044	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.245	0.059	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.245	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.490	0.176	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.490	0.134	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.245	0.074	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.245	0.128	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.245	0.066	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.490	0.282	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.490	0.198	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.490	0.046	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.490	0.150	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.490	0.083	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.490	0.069	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.490	0.201	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.490	0.053	1
PFOA/PFOS, Total	ND		ng/g	0.245	0.041	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03 Date Collected: 08/03/23 15:00

Client ID: EHS-DE-CCC Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	**58**	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	69		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	106		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	**62**	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	74		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	96		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**177**	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	88		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	101		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**191**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	44		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	92		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	48		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	98		24-159

Project Name: EHS-CAPITAL IMPROVEMENTS
Lab Number: L2345016
Project Number: 2021-01
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 08/08/23 07:51
Analyst: AC
Percent Solids: 100%

Extraction Method: ALPHA 23528
Extraction Date: 08/06/23 06:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.490	0.096	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	61		10-117

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 08/06/23 13:50
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 08/06/23 06:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-03 Batch: WG1812376-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 08/06/23 13:50
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 08/06/23 06:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-03 Batch: WG1812376-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	107		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	116		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	112		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	108		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**179**	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	107		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**200**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	72		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	108		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	10		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	75		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	104		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	112		24-159

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 08/08/23 07:20
Analyst: AC

Extraction Method: ALPHA 23528
Extraction Date: 08/06/23 06:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-03 Batch: WG1812376-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	59		10-117

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 08/14/23 10:56
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 08/13/23 11:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1815328-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Dibenzofuran	ND		ug/kg	160	15.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
1,4-Dioxane	ND		ug/kg	24	7.5

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 08/14/23 10:56
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 08/13/23 11:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1815328-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	85		18-120

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 08/14/23 22:55
Analyst: IM

Extraction Method: EPA 3540C
Extraction Date: 08/13/23 15:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1815356-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Fluoranthene	ND		ug/kg	99	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Dibenzofuran	ND		ug/kg	160	16.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
1,4-Dioxane	ND		ug/kg	25	7.6

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 08/14/23 22:55
Analyst: IM

Extraction Method: EPA 3540C
Extraction Date: 08/13/23 15:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1815356-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	81		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 Batch: WG1812376-2								
Perfluorobutanoic Acid (PFBA)	94		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	98		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	88		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	93		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	94		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	101		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	90		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	103		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	80		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	103		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	87		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	88		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	111		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	100		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	112		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	94		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	87		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	107		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	92		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	99		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	73		-		69-133	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 Batch: WG1812376-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	102				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	109				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	113				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	88				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**180**	Q			20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	96				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	107				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	108				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**184**	Q			19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	75				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	12				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	74				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	101				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	116				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab	Associated sample(s): 01-03		Batch: WG1812376-2					
Perfluorooctanesulfonamide (FOSA)	104		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	57				10-117

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1815328-2 WG1815328-3								
Acenaphthene	75		79		31-137	5		50
Hexachlorobenzene	86		92		40-140	7		50
Fluoranthene	79		87		40-140	10		50
Naphthalene	78		85		40-140	9		50
Benzo(a)anthracene	88		92		40-140	4		50
Benzo(a)pyrene	95		100		40-140	5		50
Benzo(b)fluoranthene	84		96		40-140	13		50
Benzo(k)fluoranthene	88		84		40-140	5		50
Chrysene	82		88		40-140	7		50
Acenaphthylene	92		101		40-140	9		50
Anthracene	81		85		40-140	5		50
Benzo(ghi)perylene	87		91		40-140	4		50
Fluorene	78		84		40-140	7		50
Phenanthrene	78		82		40-140	5		50
Dibenzo(a,h)anthracene	86		90		40-140	5		50
Indeno(1,2,3-cd)pyrene	89		92		40-140	3		50
Pyrene	80		89		35-142	11		50
Dibenzofuran	79		86		40-140	8		50
Pentachlorophenol	58		60		17-109	3		50
Phenol	74		83		26-90	11		50
2-Methylphenol	70		77		30-130.	10		50
3-Methylphenol/4-Methylphenol	74		83		30-130	11		50
1,4-Dioxane	46		52		40-140	12		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1815328-2 WG1815328-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	72		83		25-120
Phenol-d6	70		80		10-120
Nitrobenzene-d5	68		77		23-120
2-Fluorobiphenyl	90		98		30-120
2,4,6-Tribromophenol	87		93		10-136
4-Terphenyl-d14	79		89		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1815356-2 WG1815356-3								
Acenaphthene	60		70		31-137	15		50
Hexachlorobenzene	74		85		40-140	14		50
Fluoranthene	65		76		40-140	16		50
Naphthalene	63		72		40-140	13		50
Benzo(a)anthracene	64		78		40-140	20		50
Benzo(a)pyrene	73		85		40-140	15		50
Benzo(b)fluoranthene	66		82		40-140	22		50
Benzo(k)fluoranthene	66		75		40-140	13		50
Chrysene	66		77		40-140	15		50
Acenaphthylene	68		78		40-140	14		50
Anthracene	65		77		40-140	17		50
Benzo(ghi)perylene	65		77		40-140	17		50
Fluorene	65		76		40-140	16		50
Phenanthrene	63		74		40-140	16		50
Dibenzo(a,h)anthracene	64		75		40-140	16		50
Indeno(1,2,3-cd)pyrene	66		77		40-140	15		50
Pyrene	65		76		35-142	16		50
Dibenzofuran	66		75		40-140	13		50
Pentachlorophenol	48		56		17-109	15		50
Phenol	68		74		26-90	8		50
2-Methylphenol	70		78		30-130.	11		50
3-Methylphenol/4-Methylphenol	69		76		30-130	10		50
1,4-Dioxane	51		53		40-140	4		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1815356-2 WG1815356-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	69		72		25-120
Phenol-d6	68		73		10-120
Nitrobenzene-d5	68		72		23-120
2-Fluorobiphenyl	67		72		30-120
2,4,6-Tribromophenol	78		86		10-136
4-Terphenyl-d14	66		74		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1812376-3 QC Sample: L2345016-01 Client ID: EHS-DE-CIM												
Perfluorobutanoic Acid (PFBA)	ND	4.93	4.61	94		-	-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	ND	4.93	4.90	99		-	-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.38	3.87	88		-	-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	ND	4.93	4.53	92		-	-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	4.93	4.50	91		-	-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.5	4.42	98		-	-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	ND	4.93	4.16	84		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.69	5.40	115		-	-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.7	3.76	80		-	-		70-132	-		30
Perfluorononanoic Acid (PFNA)	ND	4.93	5.08	103		-	-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	ND	4.57	3.92	86		-	-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	ND	4.93	4.27	87		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.73	4.92	104		-	-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	4.93	5.21F	106		-	-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	4.93	5.29	107		-	-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	4.76	4.26	90		-	-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	ND	4.93	4.39F	89		-	-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	4.93	4.88	99		-	-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	ND	4.93	4.65	94		-	-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	ND	4.93	4.98	101		-	-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	4.93	3.82	78		-	-		69-133	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1812376-3 QC Sample: L2345016-01 Client ID: EHS-DE-CIM

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**182**	Q			19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**167**	Q			20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	61				34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	60				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	99				61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98				75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	87				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97				78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	96				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	93				24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	99				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	105				58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	61				10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103				79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	105				75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94				72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	105				74-139

Lab Duplicate Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1812376-4 QC Sample: L2345016-02 Client ID: EHS-DE-PMC						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/g	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/g	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/g	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/g	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/g	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/g	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/g	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/g	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/g	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/g	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/g	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/g	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/g	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/g	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/g	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/g	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1812376-4 QC Sample: L2345016-02 Client ID: EHS-DE-PMC						
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/g	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	99		98		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	103		104		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	103		105		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	88		86		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		92		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		100		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	103		104		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**172**	Q	**163**	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	100		95		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		104		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	104		99		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**184**	Q	**198**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	56		51		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	107		105		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	32		16		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	63		57		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	95		95		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	86		92		24-159

PCBS

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 08/14/23 13:57
Analyst: MEO
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 10:04
Cleanup Method: EPA 3665A
Cleanup Date: 08/14/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/14/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	52.6	4.67	1	A
Aroclor 1221	ND		ug/kg	52.6	5.27	1	A
Aroclor 1232	ND		ug/kg	52.6	11.2	1	A
Aroclor 1242	ND		ug/kg	52.6	7.10	1	A
Aroclor 1248	ND		ug/kg	52.6	7.90	1	B
Aroclor 1254	ND		ug/kg	52.6	5.76	1	A
Aroclor 1260	ND		ug/kg	52.6	9.73	1	A
Aroclor 1262	ND		ug/kg	52.6	6.68	1	A
Aroclor 1268	ND		ug/kg	52.6	5.45	1	A
PCBs, Total	ND		ug/kg	52.6	4.67	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Lab Number: L2345016
Project Number: 2021-01
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02
Client ID: EHS-DE-PMC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:15
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 08/14/23 14:10
Analyst: MEO
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 10:04
Cleanup Method: EPA 3665A
Cleanup Date: 08/14/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/14/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	54.8	4.86	1	A
Aroclor 1221	ND		ug/kg	54.8	5.49	1	A
Aroclor 1232	ND		ug/kg	54.8	11.6	1	A
Aroclor 1242	ND		ug/kg	54.8	7.38	1	A
Aroclor 1248	ND		ug/kg	54.8	8.22	1	A
Aroclor 1254	ND		ug/kg	54.8	5.99	1	A
Aroclor 1260	ND		ug/kg	54.8	10.1	1	A
Aroclor 1262	ND		ug/kg	54.8	6.96	1	A
Aroclor 1268	ND		ug/kg	54.8	5.67	1	A
PCBs, Total	ND		ug/kg	54.8	4.86	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	37		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	38		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 08/15/23 15:48
Analyst: ENT
Percent Solids: 100%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 15:05
Cleanup Method: EPA 3665A
Cleanup Date: 08/15/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/15/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	48.9	4.34	1	A
Aroclor 1221	ND		ug/kg	48.9	4.90	1	A
Aroclor 1232	ND		ug/kg	48.9	10.4	1	A
Aroclor 1242	ND		ug/kg	48.9	6.60	1	A
Aroclor 1248	ND		ug/kg	48.9	7.34	1	A
Aroclor 1254	ND		ug/kg	48.9	5.35	1	A
Aroclor 1260	ND		ug/kg	48.9	9.04	1	A
Aroclor 1262	ND		ug/kg	48.9	6.21	1	A
Aroclor 1268	ND		ug/kg	48.9	5.07	1	A
PCBs, Total	ND		ug/kg	48.9	4.34	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	38		30-150	A
Decachlorobiphenyl	42		30-150	A
2,4,5,6-Tetrachloro-m-xylene	39		30-150	B
Decachlorobiphenyl	41		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 08/14/23 07:43
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 08/13/23 10:04
Cleanup Method: EPA 3665A
Cleanup Date: 08/14/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/14/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1815289-1						
Aroclor 1016	ND		ug/kg	47.4	4.21	A
Aroclor 1221	ND		ug/kg	47.4	4.75	A
Aroclor 1232	ND		ug/kg	47.4	10.0	A
Aroclor 1242	ND		ug/kg	47.4	6.39	A
Aroclor 1248	ND		ug/kg	47.4	7.11	A
Aroclor 1254	ND		ug/kg	47.4	5.18	A
Aroclor 1260	ND		ug/kg	47.4	8.76	A
Aroclor 1262	ND		ug/kg	47.4	6.02	A
Aroclor 1268	ND		ug/kg	47.4	4.91	A
PCBs, Total	ND		ug/kg	47.4	4.21	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	52		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 08/15/23 15:00
Analyst: ENT

Extraction Method: EPA 3546
Extraction Date: 08/13/23 10:05
Cleanup Method: EPA 3665A
Cleanup Date: 08/15/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/15/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03 Batch: WG1815342-1						
Aroclor 1016	ND		ug/kg	46.8	4.15	A
Aroclor 1221	ND		ug/kg	46.8	4.69	A
Aroclor 1232	ND		ug/kg	46.8	9.92	A
Aroclor 1242	ND		ug/kg	46.8	6.30	A
Aroclor 1248	ND		ug/kg	46.8	7.02	A
Aroclor 1254	ND		ug/kg	46.8	5.12	A
Aroclor 1260	ND		ug/kg	46.8	8.64	A
Aroclor 1262	ND		ug/kg	46.8	5.94	A
Aroclor 1268	ND		ug/kg	46.8	4.84	A
PCBs, Total	ND		ug/kg	46.8	4.15	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	83		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1815289-2 WG1815289-3									
Aroclor 1016	84		98		40-140	15		50	A
Aroclor 1260	78		83		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		87		30-150	A
Decachlorobiphenyl	60		58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		94		30-150	B
Decachlorobiphenyl	58		60		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03 Batch: WG1815342-2 WG1815342-3									
Aroclor 1016	71		70		40-140	1		50	A
Aroclor 1260	70		71		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		68		30-150	A
Decachlorobiphenyl	76		75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		69		30-150	B
Decachlorobiphenyl	74		72		30-150	B

PESTICIDES

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 08/14/23 18:08
Analyst: MMG
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 09:13
Cleanup Method: EPA 3620B
Cleanup Date: 08/14/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/14/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.65	0.323	1	A
Lindane	ND		ug/kg	0.688	0.307	1	A
Alpha-BHC	ND		ug/kg	0.688	0.195	1	A
Beta-BHC	ND		ug/kg	1.65	0.626	1	A
Heptachlor	ND		ug/kg	0.825	0.370	1	A
Aldrin	ND		ug/kg	1.65	0.581	1	A
Endrin	ND		ug/kg	0.688	0.282	1	A
Dieldrin	ND		ug/kg	1.03	0.516	1	A
4,4'-DDE	ND		ug/kg	1.65	0.382	1	A
4,4'-DDD	ND		ug/kg	1.65	0.589	1	A
4,4'-DDT	ND		ug/kg	1.65	1.33	1	A
Endosulfan I	ND		ug/kg	1.65	0.390	1	A
Endosulfan II	ND		ug/kg	1.65	0.551	1	A
Endosulfan sulfate	ND		ug/kg	0.688	0.327	1	A
cis-Chlordane	ND		ug/kg	2.06	0.575	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	94		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Lab Number: L2345016
Project Number: 2021-01
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 08/11/23 16:54
Analyst: EJL
Percent Solids: 95%
Methylation Date: 08/11/23 03:00

Extraction Method: EPA 8151A
Extraction Date: 08/10/23 07:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	172	4.59	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	95		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Lab Number: L2345016
Project Number: 2021-01
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02
Client ID: EHS-DE-PMC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:15
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 08/14/23 18:20
Analyst: MMG
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 09:13
Cleanup Method: EPA 3620B
Cleanup Date: 08/14/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/14/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.76	0.346	1	A
Lindane	ND		ug/kg	0.736	0.329	1	A
Alpha-BHC	ND		ug/kg	0.736	0.209	1	A
Beta-BHC	ND		ug/kg	1.76	0.670	1	A
Heptachlor	ND		ug/kg	0.883	0.396	1	A
Aldrin	ND		ug/kg	1.76	0.622	1	A
Endrin	ND		ug/kg	0.736	0.302	1	A
Dieldrin	ND		ug/kg	1.10	0.552	1	A
4,4'-DDE	ND		ug/kg	1.76	0.408	1	A
4,4'-DDD	ND		ug/kg	1.76	0.630	1	A
4,4'-DDT	ND		ug/kg	1.76	1.42	1	A
Endosulfan I	ND		ug/kg	1.76	0.417	1	A
Endosulfan II	ND		ug/kg	1.76	0.590	1	A
Endosulfan sulfate	ND		ug/kg	0.736	0.350	1	A
cis-Chlordane	ND		ug/kg	2.21	0.615	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	101		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Lab Number: L2345016
Project Number: 2021-01
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02
Client ID: EHS-DE-PMC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:15
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 08/11/23 17:13
Analyst: EJL
Percent Solids: 88%
Methylation Date: 08/11/23 03:00

Extraction Method: EPA 8151A
Extraction Date: 08/10/23 07:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	186	4.95	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	110		30-150	A
DCAA	114		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 08/17/23 10:48
Analyst: AKM
Percent Solids: 100%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 15:25
Cleanup Method: EPA 3620B
Cleanup Date: 08/16/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/16/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.51	0.296	1	A
Lindane	ND		ug/kg	0.630	0.282	1	A
Alpha-BHC	ND		ug/kg	0.630	0.179	1	A
Beta-BHC	ND		ug/kg	1.51	0.573	1	A
Heptachlor	ND		ug/kg	0.756	0.339	1	A
Aldrin	ND		ug/kg	1.51	0.532	1	A
Endrin	ND		ug/kg	0.630	0.258	1	A
Dieldrin	ND		ug/kg	0.945	0.472	1	A
4,4'-DDE	ND		ug/kg	1.51	0.350	1	A
4,4'-DDD	ND		ug/kg	1.51	0.539	1	A
4,4'-DDT	ND		ug/kg	1.51	1.22	1	A
Endosulfan I	ND		ug/kg	1.51	0.357	1	A
Endosulfan II	ND		ug/kg	1.51	0.505	1	A
Endosulfan sulfate	ND		ug/kg	0.630	0.300	1	A
cis-Chlordane	ND		ug/kg	1.89	0.527	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 08/11/23 17:31
Analyst: EJL
Percent Solids: 100%
Methylation Date: 08/11/23 03:00

Extraction Method: EPA 8151A
Extraction Date: 08/10/23 07:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	162	4.32	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	87		30-150	A
DCAA	94		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 08/11/23 08:30
Analyst: AKM

Extraction Method: EPA 8151A
Extraction Date: 08/10/23 03:34

Methylation Date: 08/11/23 03:00

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1814097-1						
2,4,5-TP (Silvex)	ND		ug/kg	164	4.35	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	94		30-150	A
DCAA	110		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/14/23 16:56
Analyst: MMG

Extraction Method: EPA 3546
Extraction Date: 08/12/23 23:59
Cleanup Method: EPA 3620B
Cleanup Date: 08/14/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/14/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1815274-1						
Delta-BHC	ND		ug/kg	1.53	0.300	A
Lindane	ND		ug/kg	0.638	0.285	A
Alpha-BHC	ND		ug/kg	0.638	0.181	A
Beta-BHC	ND		ug/kg	1.53	0.581	A
Heptachlor	ND		ug/kg	0.766	0.343	A
Aldrin	ND		ug/kg	1.53	0.539	A
Endrin	ND		ug/kg	0.638	0.262	A
Dieldrin	ND		ug/kg	0.957	0.479	A
4,4'-DDE	ND		ug/kg	1.53	0.354	A
4,4'-DDD	ND		ug/kg	1.53	0.546	A
4,4'-DDT	ND		ug/kg	1.53	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.362	A
Endosulfan II	ND		ug/kg	1.53	0.512	A
Endosulfan sulfate	ND		ug/kg	0.638	0.304	A
cis-Chlordane	ND		ug/kg	1.91	0.534	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	109		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/17/23 10:14
Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 08/13/23 15:25
Cleanup Method: EPA 3620B
Cleanup Date: 08/16/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/16/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03 Batch: WG1815358-1						
Delta-BHC	ND		ug/kg	1.54	0.301	A
Lindane	ND		ug/kg	0.640	0.286	A
Alpha-BHC	ND		ug/kg	0.640	0.182	A
Beta-BHC	ND		ug/kg	1.54	0.582	A
Heptachlor	ND		ug/kg	0.768	0.344	A
Aldrin	ND		ug/kg	1.54	0.541	A
Endrin	ND		ug/kg	0.640	0.262	A
Dieldrin	ND		ug/kg	0.960	0.480	A
4,4'-DDE	ND		ug/kg	1.54	0.355	A
4,4'-DDD	ND		ug/kg	1.54	0.548	A
4,4'-DDT	ND		ug/kg	1.54	1.23	A
Endosulfan I	ND		ug/kg	1.54	0.363	A
Endosulfan II	ND		ug/kg	1.54	0.513	A
Endosulfan sulfate	ND		ug/kg	0.640	0.304	A
cis-Chlordane	ND		ug/kg	1.92	0.535	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	71		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1814097-2 WG1814097-3									
2,4,5-TP (Silvex)	105		103		30-150	2		30	B

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	111		99		30-150	A
DCAA	121		124		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1815274-2 WG1815274-3									
Delta-BHC	96		98		30-150	2		30	A
Lindane	90		92		30-150	2		30	A
Alpha-BHC	89		92		30-150	3		30	A
Beta-BHC	90		91		30-150	1		30	A
Heptachlor	89		94		30-150	5		30	A
Aldrin	86		92		30-150	7		30	A
Endrin	94		98		30-150	4		30	A
Dieldrin	95		101		30-150	6		30	A
4,4'-DDE	91		99		30-150	8		30	A
4,4'-DDD	98		106		30-150	8		30	A
4,4'-DDT	98		106		30-150	8		30	A
Endosulfan I	86		91		30-150	6		30	A
Endosulfan II	92		98		30-150	6		30	A
Endosulfan sulfate	86		90		30-150	5		30	A
cis-Chlordane	79		83		30-150	5		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		81		30-150	A
Decachlorobiphenyl	102		105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		83		30-150	B
Decachlorobiphenyl	109		116		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1815358-2 WG1815358-3									
Delta-BHC	60		89		30-150	**39**	Q	30	A
Lindane	52		83		30-150	**46**	Q	30	A
Alpha-BHC	55		88		30-150	**46**	Q	30	A
Beta-BHC	60		103		30-150	**53**	Q	30	A
Heptachlor	54		85		30-150	**45**	Q	30	A
Aldrin	51		84		30-150	**49**	Q	30	A
Endrin	57		91		30-150	**46**	Q	30	A
Dieldrin	60		96		30-150	**46**	Q	30	A
4,4'-DDE	55		88		30-150	**46**	Q	30	A
4,4'-DDD	60		97		30-150	**47**	Q	30	A
4,4'-DDT	60		98		30-150	**48**	Q	30	A
Endosulfan I	54		87		30-150	**47**	Q	30	A
Endosulfan II	59		92		30-150	**44**	Q	30	A
Endosulfan sulfate	52		80		30-150	**42**	Q	30	A
cis-Chlordane	57		91		30-150	**46**	Q	30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		70		30-150	A
Decachlorobiphenyl	57		90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	43		67		30-150	B
Decachlorobiphenyl	53		86		30-150	B

METALS

Project Name: EHS-CAPITAL IMPROVEMENTS
Lab Number: L2345016
Project Number: 2021-01
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY
Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	15.1		mg/kg	0.408	0.085	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Barium, Total	40.7		mg/kg	0.408	0.071	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.557		mg/kg	0.204	0.013	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.086	J	mg/kg	0.408	0.040	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Chromium, Total	11.0		mg/kg	0.408	0.039	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Copper, Total	16.1		mg/kg	0.408	0.105	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Lead, Total	14.7		mg/kg	2.04	0.109	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Manganese, Total	315		mg/kg	0.408	0.065	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Mercury, Total	ND		mg/kg	0.072	0.047	1	08/23/23 16:35	08/23/23 23:20	EPA 7471B	1,7471B	GMG
Nickel, Total	15.6		mg/kg	1.02	0.099	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Selenium, Total	0.327	J	mg/kg	0.815	0.105	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Silver, Total	0.138	J	mg/kg	0.204	0.115	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Zinc, Total	41.8		mg/kg	2.04	0.119	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	10.8	J	mg/kg	0.844	0.169	1		08/23/23 13:03	NA	107,-	

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02 Date Collected: 08/03/23 15:15

Client ID: EHS-DE-PMC Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	8.65		mg/kg	0.452	0.094	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Barium, Total	85.2		mg/kg	0.452	0.079	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Beryllium, Total	1.12		mg/kg	0.226	0.015	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.091	J	mg/kg	0.452	0.044	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Chromium, Total	21.4		mg/kg	0.452	0.043	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Copper, Total	23.9		mg/kg	0.452	0.117	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Lead, Total	17.5		mg/kg	2.26	0.121	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Manganese, Total	236		mg/kg	0.452	0.072	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Mercury, Total	ND		mg/kg	0.078	0.051	1	08/23/23 16:35	08/23/23 23:23	EPA 7471B	1,7471B	GMG
Nickel, Total	27.1		mg/kg	1.13	0.109	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Selenium, Total	0.222	J	mg/kg	0.905	0.117	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.226	0.128	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Zinc, Total	39.9		mg/kg	2.26	0.132	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	21.4		mg/kg	0.907	0.181	1		08/23/23 13:06	NA	107,-	

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03 Date Collected: 08/03/23 15:00

Client ID: EHS-DE-CCC Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 100%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	1.67		mg/kg	0.397	0.083	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Barium, Total	354		mg/kg	0.397	0.069	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.082	J	mg/kg	0.198	0.013	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Cadmium, Total	ND		mg/kg	0.397	0.039	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Chromium, Total	7.66		mg/kg	0.397	0.038	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Copper, Total	0.704		mg/kg	0.397	0.102	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Lead, Total	1.69	J	mg/kg	1.98	0.106	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Manganese, Total	3.83		mg/kg	0.397	0.063	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Mercury, Total	ND		mg/kg	0.075	0.049	1	08/23/23 16:35	08/23/23 23:27	EPA 7471B	1,7471B	GMG
Nickel, Total	0.633	J	mg/kg	0.992	0.096	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Selenium, Total	ND		mg/kg	0.794	0.102	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.198	0.112	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Zinc, Total	1.30	J	mg/kg	1.98	0.116	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.27	J	mg/kg	0.802	0.160	1		08/23/23 13:09	NA	107,-	

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1813262-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Barium, Total	ND		mg/kg	0.400	0.070	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Beryllium, Total	ND		mg/kg	0.200	0.013	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Cadmium, Total	ND		mg/kg	0.400	0.039	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Chromium, Total	ND		mg/kg	0.400	0.038	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Copper, Total	ND		mg/kg	0.400	0.103	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Lead, Total	ND		mg/kg	2.00	0.107	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Manganese, Total	ND		mg/kg	0.400	0.064	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Nickel, Total	ND		mg/kg	1.00	0.097	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Selenium, Total	ND		mg/kg	0.800	0.103	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Silver, Total	ND		mg/kg	0.200	0.113	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Zinc, Total	ND		mg/kg	2.00	0.117	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1819134-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	08/23/23 16:35	08/23/23 21:58	1,7471B	GMG

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1813262-2 SRM Lot Number: D119-540								
Arsenic, Total	102		-		83-117	-		
Barium, Total	104		-		82-118	-		
Beryllium, Total	106		-		83-117	-		
Cadmium, Total	97		-		82-117	-		
Chromium, Total	102		-		82-119	-		
Copper, Total	97		-		84-116	-		
Lead, Total	107		-		82-118	-		
Manganese, Total	98		-		82-118	-		
Nickel, Total	100		-		82-117	-		
Selenium, Total	106		-		79-121	-		
Silver, Total	97		-		80-120	-		
Zinc, Total	100		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1819134-2 SRM Lot Number: D119-540								
Mercury, Total	90		-		73-127	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1813262-3 QC Sample: L2344421-01 Client ID: MS Sample												
Arsenic, Total	5.12	12	16.4	94		-	-		75-125	-		20
Barium, Total	111	201	306	97		-	-		75-125	-		20
Beryllium, Total	0.571	5.02	5.67	102		-	-		75-125	-		20
Cadmium, Total	ND	5.32	4.74	89		-	-		75-125	-		20
Chromium, Total	16.9	20.1	36.5	98		-	-		75-125	-		20
Copper, Total	31.8	25.1	51.6	79		-	-		75-125	-		20
Lead, Total	28.5	53.2	82.4	101		-	-		75-125	-		20
Manganese, Total	288	50.2	326	76		-	-		75-125	-		20
Nickel, Total	15.8	50.2	61.6	91		-	-		75-125	-		20
Selenium, Total	0.726J	12	11.7	97		-	-		75-125	-		20
Silver, Total	ND	5.02	4.82	96		-	-		75-125	-		20
Zinc, Total	54.1	50.2	103	97		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1819134-3 QC Sample: L2344832-01 Client ID: MS Sample												
Mercury, Total	ND	1.78	1.64	92		-	-		80-120	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1813262-4 QC Sample: L2344421-01 Client ID: DUP Sample						
Arsenic, Total	5.12	5.14	mg/kg	0		20
Barium, Total	111	130	mg/kg	16		20
Beryllium, Total	0.571	0.506	mg/kg	12		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	16.9	16.3	mg/kg	4		20
Copper, Total	31.8	27.3	mg/kg	15		20
Lead, Total	28.5	32.3	mg/kg	13		20
Manganese, Total	288	274	mg/kg	5		20
Nickel, Total	15.8	14.9	mg/kg	6		20
Selenium, Total	0.726J	0.813J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Zinc, Total	54.1	49.3	mg/kg	9		20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1819134-4 QC Sample: L2344832-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2345016
Report Date: 08/24/23

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1813262-6 QC Sample: L2344421-01 Client ID: DUP Sample						
Barium, Total	111	115	mg/kg	4		20
Copper, Total	31.8	31.7	mg/kg	0		20
Manganese, Total	288	304	mg/kg	6		20

INORGANICS
&
MISCELLANEOUS

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY
Sample Depth:
Matrix: Soil

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.8		%	0.100	NA	1	-	08/05/23 11:11	121,2540G	ROI
Cyanide, Total	ND		mg/kg	0.99	0.21	1	08/11/23 14:30	08/11/23 19:20	1,9010C/9012B	JRO
Chromium, Hexavalent	0.179	J	mg/kg	0.844	0.169	1	08/16/23 12:40	08/17/23 12:05	1,7196A	DTH

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02
Client ID: EHS-DE-PMC
Sample Location: ELMIRA, NY
Sample Depth:
Matrix: Soil

Date Collected: 08/03/23 15:15
Date Received: 08/03/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.2		%	0.100	NA	1	-	08/05/23 11:11	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	08/11/23 14:30	08/11/23 19:02	1,9010C/9012B	JRO
Chromium, Hexavalent	ND		mg/kg	0.907	0.181	1	08/16/23 12:40	08/17/23 12:05	1,7196A	DTH

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY
Sample Depth:
Matrix: Soil

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99.7		%	0.100	NA	1	-	08/05/23 11:11	121,2540G	ROI
Cyanide, Total	ND		mg/kg	0.98	0.21	1	08/11/23 14:30	08/11/23 19:03	1,9010C/9012B	JRO
Chromium, Hexavalent	0.391	J	mg/kg	0.802	0.160	1	08/16/23 12:40	08/17/23 12:05	1,7196A	DTH

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02-03 Batch: WG1814811-1										
Cyanide, Total	ND		mg/kg	0.97	0.20	1	08/11/23 14:30	08/11/23 18:41	1,9010C/9012B	JRO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1814813-1										
Cyanide, Total	ND		mg/kg	0.98	0.21	1	08/11/23 14:30	08/11/23 19:14	1,9010C/9012B	JRO
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1816542-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	08/16/23 12:40	08/17/23 12:05	1,7196A	DTH

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-03 Batch: WG1814811-2 WG1814811-3								
Cyanide, Total	**76**	Q	95		80-120	22		35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1814813-2 WG1814813-3								
Cyanide, Total	**53**	Q	**71**	Q	80-120	18		35
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1816542-2								
Chromium, Hexavalent	80		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG1814811-4 WG1814811-5 QC Sample: L2346238-01 Client ID: MS Sample												
Cyanide, Total	ND	11	9.9	93		10	100		75-125	1		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1814813-4 WG1814813-5 QC Sample: L2345016-01 Client ID: EHS-DE-CIM												
Cyanide, Total	ND	9.6	9.5	99		10	100		75-125	5		35
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1816542-4 QC Sample: L2345016-03 Client ID: EHS-DE-CCC												
Chromium, Hexavalent	0.391J	1270	1100	86		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1812226-1 QC Sample: L2344817-01 Client ID: DUP Sample						
Solids, Total	64.1	65.0	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1816542-6 QC Sample: L2345016-03 Client ID: EHS-DE-CCC						
Chromium, Hexavalent	0.391J	0.441J	mg/kg	NC		20

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2345016-01A	Vial MeOH preserved	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2345016-01B	Vial water preserved	A	NA		3.5	Y	Absent	04-AUG-23 11:01	NYTCL-8260HLW(14)
L2345016-01C	Vial water preserved	A	NA		3.5	Y	Absent	04-AUG-23 11:01	NYTCL-8260HLW(14)
L2345016-01D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2345016-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),MN-TI(180),HG-T(28),CD-TI(180)
L2345016-01F	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		HEXCR-7196(30)
L2345016-01G	Plastic 8oz unpreserved	A	NA		3.5	Y	Absent		A2-NY-537-ISOTOPE(90)
L2345016-01H	Plastic 8oz unpreserved	A	NA		3.5	Y	Absent		HOLD-537(14)
L2345016-01I	Glass 500ml/16oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2345016-02A	Vial MeOH preserved	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2345016-02B	Vial water preserved	A	NA		3.5	Y	Absent	04-AUG-23 11:01	NYTCL-8260HLW(14)
L2345016-02C	Vial water preserved	A	NA		3.5	Y	Absent	04-AUG-23 11:01	NYTCL-8260HLW(14)
L2345016-02D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2345016-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SE-TI(180),MN-TI(180),HG-T(28),CD-TI(180)
L2345016-02F	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		HEXCR-7196(30)
L2345016-02G	Plastic 8oz unpreserved	A	NA		3.5	Y	Absent		A2-NY-537-ISOTOPE(90)
L2345016-02H	Plastic 8oz unpreserved	A	NA		3.5	Y	Absent		HOLD-537(14)
L2345016-02I	Glass 500ml/16oz unpreserved	A	NA		3.5	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2345016-03A	Vial MeOH preserved	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2345016-03B	Vial water preserved	A	NA		3.5	Y	Absent	04-AUG-23 11:01	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

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Report Date: 08/24/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2345016-03C	Vial water preserved	A	NA		3.5	Y	Absent	04-AUG-23 11:01	NYTCL-8260HLW(14)
L2345016-03D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2345016-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L2345016-03F	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		HEXCR-7196(30)
L2345016-03G	Plastic 8oz unpreserved	A	NA		3.5	Y	Absent		A2-NY-537-ISOTOPE(90)
L2345016-03H	Plastic 8oz unpreserved	A	NA		3.5	Y	Absent		HOLD-537(14)
L2345016-03I	Glass 500ml/16oz unpreserved	A	NA		3.5	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)

*Values in parentheses indicate holding time in days

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

Project Name:	EHS-CAPITAL IMPROVEMENTS	**Lab Number:**	L2345016
Project Number:	2021-01	**Report Date:**	08/24/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	EHS-CAPITAL IMPROVEMENTS	**Lab Number:**	L2345016
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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	EHS-CAPITAL IMPROVEMENTS	**Lab Number:**	L2345016
Project Number:	2021-01	**Report Date:**	08/24/23

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	EHS-CAPITAL IMPROVEMENTS	**Lab Number:**	L2345016
Project Number:	2021-01	**Report Date:**	08/24/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

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Date Rec'd in Lab: 8/4/23

ALPHA Job #: L2345016

Client Information
Client: Sterling Env. Eng.
Address: 24 Wade Rd
Latham, NY 12110
Phone: 518-456-4900
Fax:
Email:

Project Information
Project Name: EHS - Capital Improvements
Project Location: Elmira, NY
Project # 2021-01
(Use Project name as Project #) ☐
Project Manager: M. Deyo / A. Millspaugh
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other CAT. B

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☒ Other DER-10
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
andrew.millspaugh@sterlingenvironmental.com
amanda.castignetti@sterlingenvironmental.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	DER-10 Total Metals, Hg, Hex Cr, Cyanide	DER-10 VOCs (8260)	DER-10 SVOCs (8270)	DER-10 Pests/Herbs (8081, 8151)	Total PCBs (8082)	Total Solids	PFAS/SPLP * (537.1 Modified)	Sample Specific Comments	Total Bottle
48016-01	EHS-DE-CIM	8-3-2023	1530	SOIL	PWS	X	X	X	X	X	X	X	* SPLP only if exceedence of guidelines *	9
-02	EHS-DE-PMC	8-3-2023	1515	SOIL	PWS	X	X	X	X	X	X	X		9
-03	EHS-DE-CCC	8-3-2023	1500	SOIL	PWS	X	X	X	X	X	X	X		9

Container Type: A | A | A | A | A | P | P
Preservative: A | NP | A | A | A | A | A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	8-3-2023		8/3/23 1720
	8/3/23 1720		8/4/23 0100

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION

ACTIVE AND ABANDONED MINE OPERATIONS

BUREAU OF MINING PROGRAMS

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

NONCOAL OPERATOR LICENSE - LARGE MINE

MINING WITH CONSERVATION STANDS FOR PROGRESS

This is to certify that the following person has been duly licensed to engage in mining in the Commonwealth of Pennsylvania until the date of expiration, as shown below:

Name: NATURAL SAND COMPANY, INC.

Address: 149 S BROAD ST
GROVE CITY PA 16127-1522

License Number: 19783

License Issued: 03/14/2023

License Expires: **02/29/2024**

Any person who proceeds to conduct mining activities without a valid authorization or in violation of the terms of the authorization shall be guilty of a misdemeanor and subject to fine or imprisonment, as provided in the 'Noncoal Surface Mining Conservation and Reclamation Act.' This license may be suspended or revoked for failure to comply with the terms of the authorization, the applicable regulations or applicable laws. The terms of this authorization shall include: 1) Operator shall at all times comply with the 'The Clean Streams Law of Pennsylvania' and the 'Noncoal Surface Mining Conservation and Reclamation Act' and the rules and regulations, orders and permits issued under these acts. 2) Licensee shall not proceed to mine minerals by the surface mining method activities without a valid surface mining permit. 3) This certificate shall be displayed at the legal address of the licensee.

Director, Bureau of Mining Programs

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION

ACTIVE AND ABANDONED MINE OPERATIONS *BUREAU OF MINING PROGRAMS*

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

NONCOAL OPERATOR LICENSE - LARGE MINE

MINING WITH CONSERVATION STANDS FOR PROGRESS

This is to certify that the following person has been duly licensed to engage in mining in the Commonwealth of Pennsylvania until the date of expiration, as shown below:

Name: THREE RIVERS AGGREGATES, LLC

Address: 321 CURRIE RD
SLIPPERY ROCK PA 16057-4503

License Number: 24589

License Issued: 06/06/2023

License Expires: **03/31/2024**

Any person who proceeds to conduct mining activities without a valid authorization or in violation of the terms of the authorization shall be guilty of a misdemeanor and subject to fine or imprisonment, as provided in the 'Noncoal Surface Mining Conservation and Reclamation Act.' This license may be suspended or revoked for failure to comply with the terms of the authorization, the applicable regulations or applicable laws. The terms of this authorization shall include: 1) Operator shall at all times comply with the 'The Clean Streams Law of Pennsylvania' and the 'Noncoal Surface Mining Conservation and Reclamation Act' and the rules and regulations, orders and permits issued under these acts. 2) Licensee shall not proceed to mine minerals by the surface mining method activities without a valid surface mining permit. 3) This certificate shall be displayed at the legal address of the licensee.

Director, Bureau of Mining Programs

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? no

Premium Mound Clay

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 0-50

If greater than 1000 cubic yards will be imported, enter volume to be imported: N/A

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? no

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Samples were collected from the clay generated from a permitted mine, the Varos Mine, in Sarvar, Pennsylvania. In accordance with NYSDEC's July 20, 2023 email (see attached) and DER-10 Appendix 5, one (1) grab sample was collected for VOC analyses, and one (1) composite sample was collected and analyzed for inorganics, SVOCs, PCBs, pesticides, herbicides and PFAS Compounds.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

None of the analyzed compounds were detected at concentrations above the DER-10 Appendix 5 allowable levels for Restricted Residential Use. See the attached data table and analytical report for details.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Natural Sand Company, Inc.

Location where fill was obtained:

Varos Mine, Sarvar, Pennsylvania

Identification of any state or local approvals as a fill source:

Mine ID #36-10143

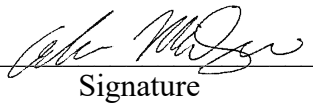
If no approvals are available, provide a brief history of the use of the property that is the fill source:

NA

Provide a list of supporting documentation included with this request:

Results Summary Table, Laboratory Analytical Report

The information provided on this form is accurate and complete.



Signature

09/07/2023

Date

Andrew M. Millspaugh, P.E.

Print Name

Sterling Environmental Engineering, P.C.

Firm

Andrew Millspaugh

From: Schneider, Timothy A (DEC) <timothy.schneider@dec.ny.gov>
Sent: Thursday, July 20, 2023 3:49 PM
To: Andrew Millspaugh; Howe, Alexander; McCartney, W Scott; Zappia, Kaleigh M (DEC); Pratt, David (DEC); Bogardus, Sara (HEALTH); Bonsteel, Nicole; Whelan, Vincent; haustin@elmiracityschools.com; Granato, Donald; Fizzano, Thomas
Cc: Etter, Terry R.; akrasnopoler@geosyntec.com; Kaitlin Ouverson; Amanda McNally; Lawrence Endicott; Kyle Cunningham; Cyr, Scott; Amanda McNally; Amanda Castignetti; mdunn; Mike Fulkerson; Krueger, Kevin D.; Jen Huha; Miranda Stelmach
Subject: RE: NYSDEC #c808022 - ECSD Ballfield Products

Categories: Projects

Hi Andrew,

As discussed on today's technical call, sampling will be required to support the import of materials identified as "soil" or "clay" at a frequency of one set per product, regardless of the volume imported. Other products not identified as such are considered building materials and not subject to import sampling.

Regards,

Tim

Timothy A. Schneider P.E.
Pronouns: he / him / his
Professional Engineer 1, Division of Environmental Remediation

New York State Department of Environmental Conservation
6274 East Avon-Lima Road, Avon, NY 14414
P: (585) 226-5480 | F: (585) 226-8139 | timothy.schneider@dec.ny.gov
www.dec.ny.gov | | |

This electronic message may contain privileged or confidential information. If you are not the intended recipient of this e-mail, please delete it from your system and advise the sender.

From: Andrew Millspaugh <Andrew.Millspaugh@sterlingenvironmental.com>
Sent: Wednesday, July 19, 2023 11:13 AM
To: Schneider, Timothy A (DEC) <timothy.schneider@dec.ny.gov>; Howe, Alexander <alexander.howe@wsp.com>; McCartney, W Scott <w.scott.mccartney@wsp.com>; Zappia, Kaleigh M (DEC) <Kaleigh.Zappia@dec.ny.gov>; Pratt, David (DEC) <david.pratt@dec.ny.gov>; Bogardus, Sara (HEALTH) <Sara.Bogardus@health.ny.gov>; Bonsteel, Nicole <nicole.bonsteel@wsp.com>; Whelan, Vincent <vincent.whelan@wsp.com>; Granato, Donald <donald.granato@wsp.com>; Fizzano, Thomas <thomas.fizzano@wsp.com>
Cc: Etter, Terry R. <terry.etter@unisys.com>; akrasnopoler@geosyntec.com; Kaitlin Ouverson <KOuverson@Geosyntec.com>; Amanda McNally <AMcNally@Geosyntec.com>; Lawrence Endicott <larry.endicott@keller-na.com>; Kyle Cunningham <kyle.cunningham@reconservices.com>; Cyr, Scott <cyrs@hunt-eas.com>; Amanda McNally <AMcNally@Geosyntec.com>; Amanda.Castignetti@SterlingEnvironmental.com; mdunn <mdunn@buildwelliver.com>; Mike Fulkerson <mfulkerson@buildwelliver.com>; Krueger, Kevin D. <Kevin.Krueger@unisys.com>; Jen Huha <JHuha@Geosyntec.com>; Miranda Stelmach <MStelmach@Geosyntec.com>
Subject: NYSDEC #c808022 - ECSD Ballfield Products

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Good Morning Tim,

ECSD will need to import the four products bulleted below for the baseball and softball fields. These are manufactured products with product sheets and Safety Data Sheets (copies attached) that are routinely used at ballfields across the country. We wanted to check with the Department if these products will require import testing or not since they are manufactured products.

- DuraEdge Infield Mix
- DuraEdge Mound Clay
- DuraEdge Clay Bricks
- DuraEdge Conditioner

Thanks,

Andrew M. Millspaugh, P.E.
Sterling Environmental Engineering, P.C.
Cell: (518) 573-4378
andrew.millspaugh@sterlingenvironmental.com
www.sterlingenvironmental.com

-LAEmHhHzdJzBlTWfa4Hgs7pbKI

Table 1

Summary of Analytical Results - Durapitch Premium Mound Clay
DuraEdge Products, Inc. - Slippery Rock, PA.
ECSD Capital Construction

	NY-DER10-RRU	EHS-DE-PMC
		8/3/2023
VOLATILE ORGANICS BY EPA 5035, mg/kg		
1,1,1-Trichloroethane	0.68	0.00018 U
1,1-Dichloroethane	0.27	0.00015 U
1,1-Dichloroethene	0.33	0.00025 U
1,2,4-Trimethylbenzene	3.6	0.00035 U
1,2-Dichlorobenzene	1.1	0.00015 U
1,2-Dichloroethane	0.02	0.00027 U
1,3,5-Trimethylbenzene	8.4	0.0002 U
1,3-Dichlorobenzene	2.4	0.00016 U
1,4-Dichlorobenzene	1.8	0.00018 U
1,4-Dioxane	0.1	0.037 U
2-Butanone	0.12	0.0024 U
Acetone	0.05	0.0051 U
Benzene	0.06	0.00018 U
Carbon tetrachloride	0.76	0.00024 U
Chlorobenzene	1.1	0.00013 U
Chloroform	0.37	0.00015 U
cis-1,2-Dichloroethene	0.25	0.00018 U
Ethylbenzene	1	0.00015 U
Methyl tert butyl ether	0.93	0.00021 U
Methylene chloride	0.05	0.0024 U
n-Butylbenzene	12	0.00018 U
n-Propylbenzene	3.9	0.00018 U
o-Xylene	---	0.00031 U
p/m-Xylene	---	0.00059 U
sec-Butylbenzene	11	0.00015 U
tert-Butylbenzene	5.9	0.00012 U
Tetrachloroethene	1.3	0.00021 U
Toluene	0.7	0.00058 U
trans-1,2-Dichloroethene	0.19	0.00014 U
Trichloroethene	0.47	0.00014 U
Vinyl chloride	0.02	0.00035 U
PERFLUORINATED ALKYL ACIDS BY ISOTOPE DILUTION, mg/kg		
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	---	0.000317 U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	---	0.000198 U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	---	0.000093 U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	---	0.000222 U
Perfluorobutanesulfonic Acid (PFBS)	---	0.000043 U
Perfluorobutanoic Acid (PFBA)	---	0.000025 U
Perfluorodecanesulfonic Acid (PFDS)	---	0.000169 U
Perfluorodecanoic Acid (PFDA)	---	0.000074 U
Perfluorododecanoic Acid (PFDoA)	---	0.000077 U
Perfluoroheptanesulfonic Acid (PFHpS)	---	0.000151 U
Perfluoroheptanoic Acid (PFHpA)	---	0.00005 U
Perfluorohexanesulfonic Acid (PFHxS)	---	0.000067 U
Perfluorohexanoic Acid (PFHxA)	---	0.000058 U
Perfluorononanoic Acid (PFNA)	---	0.000083 U
Perfluorooctanesulfonamide (FOSA)	---	0.000108 U
Perfluorooctanesulfonic Acid (PFOS)	0.044	0.000143 U
Perfluorooctanoic Acid (PFOA)	0.033	0.000046 U
Perfluoropentanoic Acid (PFPeA)	---	0.000051 U
Perfluorotetradecanoic Acid (PFTA)	---	0.00006 U
Perfluorotridecanoic Acid (PFTrDA)	---	0.000226 U
Perfluoroundecanoic Acid (PFUnA)	---	0.000052 U
PFOA/PFOS, Total		0.000046 U
SEMIVOLATILE ORGANICS BY GC/MS, mg/kg		
2-Methylphenol	0.33	0.029 U
3-Methylphenol/4-Methylphenol	0.33	0.029 U
Acenaphthene	98	0.019 U
Acenaphthylene	100	0.029 U
Anthracene	100	0.036 U
Benzo(a)anthracene	1	0.021 U
Benzo(a)pyrene	1	0.046 U
Benzo(b)fluoranthene	1	0.032 U
Benzo(ghi)perylene	100	0.022 U
Benzo(k)fluoranthene	1.7	0.03 U
Chrysene	1	0.019 U
Dibenzo(a,h)anthracene	0.33	0.022 U
Dibenzofuran	59	0.023 J
Fluoranthene	100	0.022 U
Fluorene	100	0.018 U
Hexachlorobenzene	1.2	0.021 U
Indeno(1,2,3-cd)pyrene	0.5	0.026 U
Naphthalene	12	0.023 U
Pentachlorophenol	0.8	0.041 U
Phenanthrene	100	0.023 U
Phenol	0.33	0.028 U
Pyrene	100	0.019 U

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Table 1

Summary of Analytical Results - Durapitch Premium Mound Clay
DuraEdge Products, Inc. - Slippery Rock, PA.
ECSD Capital Construction

	NY-DER10-RRU	EHS-DE-PMC 8/3/2023
CHLORINATED HERBICIDES BY GC, mg/kg		
2,4,5-TP (Silvex)	3.8	0.00495 U
ORGANOCHLORINE PESTICIDES BY GC, mg/kg		
4,4'-DDD	13	0.00063 U
4,4'-DDE	8.9	0.000408 U
4,4'-DDT	7.9	0.00142 U
Aldrin	0.097	0.000622 U
Alpha-BHC	0.02	0.000209 U
Beta-BHC	0.09	0.00067 U
cis-Chlordane	2.9	0.000615 U
Delta-BHC	0.25	0.000346 U
Dieldrin	0.1	0.000552 U
Endosulfan I	24	0.000417 U
Endosulfan II	24	0.00059 U
Endosulfan sulfate	24	0.00035 U
Endrin	0.06	0.000302 U
Heptachlor	0.38	0.000396 U
Lindane	0.1	0.000329 U
POLYCHLORINATED BIPHENYLS BY GC, mg/kg		
Aroclor 1016	1	0.00486 U
Aroclor 1221	1	0.00549 U
Aroclor 1232	1	0.0116 U
Aroclor 1242	1	0.00738 U
Aroclor 1248	1	0.00822 U
Aroclor 1254	1	0.00599 U
Aroclor 1260	1	0.0101 U
Aroclor 1262	1	0.00696 U
Aroclor 1268	1	0.00567 U
PCBs, Total	1	0.00486 U
GENERAL CHEMISTRY, mg/kg		
Chromium, Hexavalent	19	0.181 U
Chromium, Trivalent	180	21.4
Cyanide, Total	27	0.22 U
Solids, Total	---	88.2
TOTAL METALS, mg/kg		
Arsenic, Total	16	8.65
Barium, Total	400	85.2
Beryllium, Total	47	1.12
Cadmium, Total	4.3	0.091 J
Chromium, Total	---	21.4
Copper, Total	270	23.9
Lead, Total	400	17.5
Manganese, Total	2000	236
Mercury, Total	0.73	0.051 U
Nickel, Total	130	27.1
Selenium, Total	4	0.222 J
Silver, Total	8.3	0.128 U
Zinc, Total	2480	39.9

NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10, May 3, 2010.

PFOA and PFOS standards from NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances under NYSDEC Part 375 Remedial Programs, November 2022.

---: No applicable standard.

U: Not Detected. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.

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ANALYTICAL REPORT

Lab Number:	L2345016
Client:	Sterling Environmental Engineering 24 Wade Road Latham, NY 12110
ATTN:	Andrew Millspaugh
Phone:	(518) 456-4900
Project Name:	EHS-CAPITAL IMPROVEMENTS
Project Number:	2021-01
Report Date:	08/24/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2345016-01	EHS-DE-CIM	SOIL	ELMIRA, NY	08/03/23 15:30	08/03/23
L2345016-02	EHS-DE-PMC	SOIL	ELMIRA, NY	08/03/23 15:15	08/03/23
L2345016-03	EHS-DE-CCC	SOIL	ELMIRA, NY	08/03/23 15:00	08/03/23

Project Name:	EHS-CAPITAL IMPROVEMENTS	**Lab Number:**	L2345016
Project Number:	2021-01	**Report Date:**	08/24/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	EHS-CAPITAL IMPROVEMENTS	**Lab Number:**	L2345016
Project Number:	2021-01	**Report Date:**	08/24/23

Case Narrative (continued)

Report Submission

August 24, 2023: This final report includes the results of all requested analyses.

August 17, 2023: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by Isotope Dilution

L2345016-01R: The sample was re-analyzed due to QC failures in the original analysis. The results of the re-analysis are reported.

L2345016-02, -03, WG1812376-1, WG1812376-2, WG1812376-3, and WG1812376-4: Extracted Internal Standard recoveries were outside the acceptance criteria for individual analytes. Please refer to the surrogate section of the report for details.

L2345016-03: The MeOH fraction of the extraction is reported for perfluorooctanesulfonamide (fosa) due to better extraction efficiency of the perfluoro[13c8]octanesulfonamide (m8fosa) Extracted Internal Standard.

Cyanide, Total

The WG1814811-2 LCS recovery for cyanide, total (76%), associated with L2345016-02 and -03, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

The WG1814813-2/-3 LCS/LCSD recoveries for cyanide, total (53%/71%), associated with L2345016-01, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Kelly O'Neill

Title: Technical Director/Representative Date: 08/24/23

ORGANICS

VOLATILES

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 08/15/23 14:50
Analyst: LAC
Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.58	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.22	1
p/m-Xylene	ND		ug/kg	2.1	0.60	1
o-Xylene	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Acetone	ND		ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.4	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.1	0.13	1
n-Propylbenzene	ND		ug/kg	1.1	0.18	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01 Date Collected: 08/03/23 15:30

Client ID: EHS-DE-CIM Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.36	1
1,4-Dioxane	ND		ug/kg	86	38.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	106		70-130
Dibromofluoromethane	100		70-130

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02
Client ID: EHS-DE-PMC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:15
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 08/15/23 15:16
Analyst: LAC
Percent Solids: 88%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.3	2.4	1
1,1-Dichloroethane	ND		ug/kg	1.0	0.15	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.0	0.24	1
Tetrachloroethene	ND		ug/kg	0.53	0.21	1
Chlorobenzene	ND		ug/kg	0.53	0.13	1
1,2-Dichloroethane	ND		ug/kg	1.0	0.27	1
1,1,1-Trichloroethane	ND		ug/kg	0.53	0.18	1
Benzene	ND		ug/kg	0.53	0.18	1
Toluene	ND		ug/kg	1.0	0.58	1
Ethylbenzene	ND		ug/kg	1.0	0.15	1
Vinyl chloride	ND		ug/kg	1.0	0.35	1
1,1-Dichloroethene	ND		ug/kg	1.0	0.25	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.14	1
Trichloroethene	ND		ug/kg	0.53	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.1	0.15	1
1,3-Dichlorobenzene	ND		ug/kg	2.1	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.1	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.1	0.21	1
p/m-Xylene	ND		ug/kg	2.1	0.59	1
o-Xylene	ND		ug/kg	1.0	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18	1
Acetone	ND		ug/kg	10	5.1	1
2-Butanone	ND		ug/kg	10	2.4	1
n-Butylbenzene	ND		ug/kg	1.0	0.18	1
sec-Butylbenzene	ND		ug/kg	1.0	0.15	1
tert-Butylbenzene	ND		ug/kg	2.1	0.12	1
n-Propylbenzene	ND		ug/kg	1.0	0.18	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02 Date Collected: 08/03/23 15:15

Client ID: EHS-DE-PMC Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.1	0.20	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.1	0.35	1
1,4-Dioxane	ND		ug/kg	85	37.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	107		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	100		70-130

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 08/15/23 15:42
Analyst: LAC
Percent Solids: 100%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	11	5.2	1
1,1-Dichloroethane	ND		ug/kg	2.3	0.33	1
Chloroform	ND		ug/kg	3.4	0.32	1
Carbon tetrachloride	ND		ug/kg	2.3	0.53	1
Tetrachloroethene	ND		ug/kg	1.1	0.45	1
Chlorobenzene	ND		ug/kg	1.1	0.29	1
1,2-Dichloroethane	ND		ug/kg	2.3	0.59	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.38	1
Benzene	ND		ug/kg	1.1	0.38	1
Toluene	3.5		ug/kg	2.3	1.2	1
Ethylbenzene	0.95	J	ug/kg	2.3	0.32	1
Vinyl chloride	ND		ug/kg	2.3	0.77	1
1,1-Dichloroethene	ND		ug/kg	2.3	0.54	1
trans-1,2-Dichloroethene	ND		ug/kg	3.4	0.31	1
Trichloroethene	ND		ug/kg	1.1	0.31	1
1,2-Dichlorobenzene	ND		ug/kg	4.6	0.33	1
1,3-Dichlorobenzene	ND		ug/kg	4.6	0.34	1
1,4-Dichlorobenzene	ND		ug/kg	4.6	0.39	1
Methyl tert butyl ether	ND		ug/kg	4.6	0.46	1
p/m-Xylene	4.0	J	ug/kg	4.6	1.3	1
o-Xylene	1.5	J	ug/kg	2.3	0.67	1
cis-1,2-Dichloroethene	ND		ug/kg	2.3	0.40	1
Acetone	29		ug/kg	23	11.	1
2-Butanone	ND		ug/kg	23	5.1	1
n-Butylbenzene	ND		ug/kg	2.3	0.38	1
sec-Butylbenzene	ND		ug/kg	2.3	0.33	1
tert-Butylbenzene	ND		ug/kg	4.6	0.27	1
n-Propylbenzene	0.53	J	ug/kg	2.3	0.39	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03 Date Collected: 08/03/23 15:00

Client ID: EHS-DE-CCC Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	0.85	J	ug/kg	4.6	0.44	1
1,2,4-Trimethylbenzene	3.8	J	ug/kg	4.6	0.76	1
1,4-Dioxane	ND		ug/kg	180	80.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	101		70-130

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/15/23 10:56
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1816171-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Vinyl chloride	ND		ug/kg	1.0	0.34
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Acetone	ND		ug/kg	10	4.8
2-Butanone	ND		ug/kg	10	2.2
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 08/15/23 10:56
Analyst: LAC

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-03 Batch: WG1816171-5					
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	103		70-130
Toluene-d8	101		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	95		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1816171-3 WG1816171-4								
Methylene chloride	90		89		70-130	1		30
1,1-Dichloroethane	96		92		70-130	4		30
Chloroform	93		91		70-130	2		30
Carbon tetrachloride	82		79		70-130	4		30
Tetrachloroethene	84		79		70-130	6		30
Chlorobenzene	92		88		70-130	4		30
1,2-Dichloroethane	97		95		70-130	2		30
1,1,1-Trichloroethane	91		88		70-130	3		30
Benzene	94		91		70-130	3		30
Toluene	88		83		70-130	6		30
Ethylbenzene	92		87		70-130	6		30
Vinyl chloride	98		94		67-130	4		30
1,1-Dichloroethene	88		83		65-135	6		30
trans-1,2-Dichloroethene	91		87		70-130	4		30
Trichloroethene	93		89		70-130	4		30
1,2-Dichlorobenzene	93		88		70-130	6		30
1,3-Dichlorobenzene	92		87		70-130	6		30
1,4-Dichlorobenzene	91		85		70-130	7		30
Methyl tert butyl ether	94		95		66-130	1		30
p/m-Xylene	94		89		70-130	5		30
o-Xylene	93		88		70-130	6		30
cis-1,2-Dichloroethene	92		89		70-130	3		30
Acetone	86		91		54-140	6		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-03 Batch: WG1816171-3 WG1816171-4								
2-Butanone	89		94		70-130	5		30
n-Butylbenzene	98		90		70-130	9		30
sec-Butylbenzene	95		86		70-130	10		30
tert-Butylbenzene	93		85		70-130	9		30
n-Propylbenzene	98		90		70-130	9		30
1,3,5-Trimethylbenzene	95		88		70-130	8		30
1,2,4-Trimethylbenzene	95		89		70-130	7		30
1,4-Dioxane	88		93		65-136	6		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	100		103		70-130
Toluene-d8	102		101		70-130
4-Bromofluorobenzene	102		100		70-130
Dibromofluoromethane	98		100		70-130

SEMIVOLATILES

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 08/14/23 19:28
Analyst: IM
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 11:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Hexachlorobenzene	ND		ug/kg	100	20.	1
Fluoranthene	ND		ug/kg	100	20.	1
Naphthalene	ND		ug/kg	180	21.	1
Benzo(a)anthracene	ND		ug/kg	100	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	100	30.	1
Benzo(k)fluoranthene	ND		ug/kg	100	28.	1
Chrysene	ND		ug/kg	100	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	100	34.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	100	21.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	24.	1
Pyrene	ND		ug/kg	100	17.	1
Dibenzofuran	ND		ug/kg	180	16.	1
Pentachlorophenol	ND		ug/kg	140	38.	1
Phenol	ND		ug/kg	180	26.	1
2-Methylphenol	ND		ug/kg	180	27.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	250	27.	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01 Date Collected: 08/03/23 15:30

Client ID: EHS-DE-CIM Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	86		25-120
Phenol-d6	83		10-120
Nitrobenzene-d5	79		23-120
2-Fluorobiphenyl	107		30-120
2,4,6-Tribromophenol	102		10-136
4-Terphenyl-d14	94		18-120

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01 R
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 08/07/23 19:23
Analyst: SG
Percent Solids: 95%

Extraction Method: ALPHA 23528
Extraction Date: 08/06/23 06:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.494	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.494	0.045	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.247	0.039	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.494	0.052	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.247	0.045	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.247	0.060	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.247	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.494	0.177	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.494	0.135	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.247	0.074	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.247	0.128	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.247	0.066	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.494	0.284	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.494	0.199	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.494	0.046	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.494	0.151	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.494	0.097	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.494	0.084	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.494	0.069	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.494	0.202	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.494	0.053	1
PFOA/PFOS, Total	ND		ng/g	0.247	0.041	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01 R
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	101		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	108		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	100		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	149		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	87		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	89		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	152		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	58		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	101		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	67		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	60		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	103		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	77		24-159

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02
Client ID: EHS-DE-PMC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:15
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 08/14/23 19:47
Analyst: IM
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 11:49

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	19.	1
Hexachlorobenzene	ND		ug/kg	110	21.	1
Fluoranthene	ND		ug/kg	110	22.	1
Naphthalene	ND		ug/kg	190	23.	1
Benzo(a)anthracene	ND		ug/kg	110	21.	1
Benzo(a)pyrene	ND		ug/kg	150	46.	1
Benzo(b)fluoranthene	ND		ug/kg	110	32.	1
Benzo(k)fluoranthene	ND		ug/kg	110	30.	1
Chrysene	ND		ug/kg	110	19.	1
Acenaphthylene	ND		ug/kg	150	29.	1
Anthracene	ND		ug/kg	110	36.	1
Benzo(ghi)perylene	ND		ug/kg	150	22.	1
Fluorene	ND		ug/kg	190	18.	1
Phenanthrene	ND		ug/kg	110	23.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	26.	1
Pyrene	ND		ug/kg	110	19.	1
Dibenzofuran	23	J	ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	150	41.	1
Phenol	ND		ug/kg	190	28.	1
2-Methylphenol	ND		ug/kg	190	29.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	270	29.	1
1,4-Dioxane	ND		ug/kg	28	8.6	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02 Date Collected: 08/03/23 15:15

Client ID: EHS-DE-PMC Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	63		25-120
Phenol-d6	63		10-120
Nitrobenzene-d5	57		23-120
2-Fluorobiphenyl	80		30-120
2,4,6-Tribromophenol	76		10-136
4-Terphenyl-d14	69		18-120

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02
Client ID: EHS-DE-PMC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:15
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 08/06/23 16:02
Analyst: SG
Percent Solids: 88%

Extraction Method: ALPHA 23528
Extraction Date: 08/06/23 06:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.552	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.552	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.276	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.552	0.058	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.276	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.276	0.067	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.276	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.552	0.198	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.552	0.151	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.276	0.083	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.276	0.143	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.276	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.552	0.317	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.552	0.222	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.552	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.552	0.169	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.552	0.108	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.552	0.093	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.552	0.077	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.552	0.226	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.552	0.060	1
PFOA/PFOS, Total	ND		ng/g	0.276	0.046	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02 Date Collected: 08/03/23 15:15

Client ID: EHS-DE-PMC Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	99		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	103		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	103		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	88		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	103		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**172**	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	100		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	104		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**184**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	56		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	107		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	32		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	63		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	95		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	86		24-159

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 08/15/23 04:56
Analyst: IM
Percent Solids: 100%

Extraction Method: EPA 3540C
Extraction Date: 08/13/23 15:25

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	130	17.	1
Hexachlorobenzene	ND		ug/kg	100	19.	1
Fluoranthene	ND		ug/kg	100	19.	1
Naphthalene	ND		ug/kg	170	20.	1
Benzo(a)anthracene	ND		ug/kg	100	19.	1
Benzo(a)pyrene	ND		ug/kg	130	40.	1
Benzo(b)fluoranthene	ND		ug/kg	100	28.	1
Benzo(k)fluoranthene	ND		ug/kg	100	26.	1
Chrysene	ND		ug/kg	100	17.	1
Acenaphthylene	ND		ug/kg	130	26.	1
Anthracene	ND		ug/kg	100	32.	1
Benzo(ghi)perylene	ND		ug/kg	130	20.	1
Fluorene	ND		ug/kg	170	16.	1
Phenanthrene	ND		ug/kg	100	20.	1
Dibenzo(a,h)anthracene	ND		ug/kg	100	19.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.	1
Pyrene	ND		ug/kg	100	16.	1
Dibenzofuran	ND		ug/kg	170	16.	1
Pentachlorophenol	ND		ug/kg	130	36.	1
Phenol	ND		ug/kg	170	25.	1
2-Methylphenol	ND		ug/kg	170	26.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.	1
1,4-Dioxane	ND		ug/kg	25	7.6	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03 Date Collected: 08/03/23 15:00

Client ID: EHS-DE-CCC Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	71		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	71		23-120
2-Fluorobiphenyl	76		30-120
2,4,6-Tribromophenol	84		10-136
4-Terphenyl-d14	84		18-120

Project Name: EHS-CAPITAL IMPROVEMENTS
Lab Number: L2345016
Project Number: 2021-01
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 08/06/23 16:36
Analyst: SG
Percent Solids: 100%

Extraction Method: ALPHA 23528
Extraction Date: 08/06/23 06:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.490	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.490	0.045	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.245	0.038	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.490	0.052	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.245	0.044	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.245	0.059	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.245	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.490	0.176	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.490	0.134	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.245	0.074	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.245	0.128	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.245	0.066	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.490	0.282	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.490	0.198	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.490	0.046	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.490	0.150	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.490	0.083	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.490	0.069	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.490	0.201	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.490	0.053	1
PFOA/PFOS, Total	ND		ng/g	0.245	0.041	1

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03 Date Collected: 08/03/23 15:00

Client ID: EHS-DE-CCC Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	**58**	Q	61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	69		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	106		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	**62**	Q	66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	74		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	96		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	88		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**177**	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	88		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	101		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	95		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**191**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	44		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	92		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	48		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	92		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	98		24-159

Project Name: EHS-CAPITAL IMPROVEMENTS
Lab Number: L2345016
Project Number: 2021-01
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 08/08/23 07:51
Analyst: AC
Percent Solids: 100%

Extraction Method: ALPHA 23528
Extraction Date: 08/06/23 06:50

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.490	0.096	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	61		10-117

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 08/06/23 13:50
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 08/06/23 06:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-03 Batch: WG1812376-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 08/06/23 13:50
Analyst: SG

Extraction Method: ALPHA 23528
Extraction Date: 08/06/23 06:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-03 Batch: WG1812376-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	107		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	116		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	112		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	90		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	105		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	108		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**179**	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	99		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	108		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	107		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**200**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	72		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	108		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	10		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	75		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	104		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	112		24-159

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 08/08/23 07:20
Analyst: AC

Extraction Method: ALPHA 23528
Extraction Date: 08/06/23 06:50

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 01-03 Batch: WG1812376-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	59		10-117

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 08/14/23 10:56
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 08/13/23 11:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1815328-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Dibenzofuran	ND		ug/kg	160	15.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
1,4-Dioxane	ND		ug/kg	24	7.5

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 08/14/23 10:56
Analyst: IM

Extraction Method: EPA 3546
Extraction Date: 08/13/23 11:49

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 01-02 Batch: WG1815328-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	76		25-120
Phenol-d6	72		10-120
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	91		30-120
2,4,6-Tribromophenol	87		10-136
4-Terphenyl-d14	85		18-120

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 08/14/23 22:55
Analyst: IM

Extraction Method: EPA 3540C
Extraction Date: 08/13/23 15:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1815356-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	99	18.
Fluoranthene	ND		ug/kg	99	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	99	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	99	28.
Benzo(k)fluoranthene	ND		ug/kg	99	26.
Chrysene	ND		ug/kg	99	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	99	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	99	20.
Dibenzo(a,h)anthracene	ND		ug/kg	99	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	99	16.
Dibenzofuran	ND		ug/kg	160	16.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	26.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
1,4-Dioxane	ND		ug/kg	25	7.6

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 08/14/23 22:55
Analyst: IM

Extraction Method: EPA 3540C
Extraction Date: 08/13/23 15:25

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 03 Batch: WG1815356-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	73		25-120
Phenol-d6	71		10-120
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	75		30-120
2,4,6-Tribromophenol	69		10-136
4-Terphenyl-d14	81		18-120

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 Batch: WG1812376-2								
Perfluorobutanoic Acid (PFBA)	94		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	98		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	88		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	93		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	94		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	101		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	90		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	103		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	80		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	103		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	87		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	88		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	111		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	100		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	112		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	94		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	87		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	107		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	92		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	99		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	73		-		69-133	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 Batch: WG1812376-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	102				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	109				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	113				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	88				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	104				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**180**	Q			20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	96				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	107				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	108				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**184**	Q			19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	75				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	103				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	12				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	74				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	101				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	116				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab	Associated sample(s): 01-03		Batch: WG1812376-2					
Perfluorooctanesulfonamide (FOSA)	104		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	57				10-117

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1815328-2 WG1815328-3								
Acenaphthene	75		79		31-137	5		50
Hexachlorobenzene	86		92		40-140	7		50
Fluoranthene	79		87		40-140	10		50
Naphthalene	78		85		40-140	9		50
Benzo(a)anthracene	88		92		40-140	4		50
Benzo(a)pyrene	95		100		40-140	5		50
Benzo(b)fluoranthene	84		96		40-140	13		50
Benzo(k)fluoranthene	88		84		40-140	5		50
Chrysene	82		88		40-140	7		50
Acenaphthylene	92		101		40-140	9		50
Anthracene	81		85		40-140	5		50
Benzo(ghi)perylene	87		91		40-140	4		50
Fluorene	78		84		40-140	7		50
Phenanthrene	78		82		40-140	5		50
Dibenzo(a,h)anthracene	86		90		40-140	5		50
Indeno(1,2,3-cd)pyrene	89		92		40-140	3		50
Pyrene	80		89		35-142	11		50
Dibenzofuran	79		86		40-140	8		50
Pentachlorophenol	58		60		17-109	3		50
Phenol	74		83		26-90	11		50
2-Methylphenol	70		77		30-130.	10		50
3-Methylphenol/4-Methylphenol	74		83		30-130	11		50
1,4-Dioxane	46		52		40-140	12		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-02 Batch: WG1815328-2 WG1815328-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	72		83		25-120
Phenol-d6	70		80		10-120
Nitrobenzene-d5	68		77		23-120
2-Fluorobiphenyl	90		98		30-120
2,4,6-Tribromophenol	87		93		10-136
4-Terphenyl-d14	79		89		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1815356-2 WG1815356-3								
Acenaphthene	60		70		31-137	15		50
Hexachlorobenzene	74		85		40-140	14		50
Fluoranthene	65		76		40-140	16		50
Naphthalene	63		72		40-140	13		50
Benzo(a)anthracene	64		78		40-140	20		50
Benzo(a)pyrene	73		85		40-140	15		50
Benzo(b)fluoranthene	66		82		40-140	22		50
Benzo(k)fluoranthene	66		75		40-140	13		50
Chrysene	66		77		40-140	15		50
Acenaphthylene	68		78		40-140	14		50
Anthracene	65		77		40-140	17		50
Benzo(ghi)perylene	65		77		40-140	17		50
Fluorene	65		76		40-140	16		50
Phenanthrene	63		74		40-140	16		50
Dibenzo(a,h)anthracene	64		75		40-140	16		50
Indeno(1,2,3-cd)pyrene	66		77		40-140	15		50
Pyrene	65		76		35-142	16		50
Dibenzofuran	66		75		40-140	13		50
Pentachlorophenol	48		56		17-109	15		50
Phenol	68		74		26-90	8		50
2-Methylphenol	70		78		30-130.	11		50
3-Methylphenol/4-Methylphenol	69		76		30-130	10		50
1,4-Dioxane	51		53		40-140	4		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 03 Batch: WG1815356-2 WG1815356-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	69		72		25-120
Phenol-d6	68		73		10-120
Nitrobenzene-d5	68		72		23-120
2-Fluorobiphenyl	67		72		30-120
2,4,6-Tribromophenol	78		86		10-136
4-Terphenyl-d14	66		74		18-120

Matrix Spike Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1812376-3 QC Sample: L2345016-01 Client ID: EHS-DE-CIM												
Perfluorobutanoic Acid (PFBA)	ND	4.93	4.61	94		-	-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	ND	4.93	4.90	99		-	-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.38	3.87	88		-	-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	ND	4.93	4.53	92		-	-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	4.93	4.50	91		-	-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	4.5	4.42	98		-	-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	ND	4.93	4.16	84		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	4.69	5.40	115		-	-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	4.7	3.76	80		-	-		70-132	-		30
Perfluorononanoic Acid (PFNA)	ND	4.93	5.08	103		-	-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	ND	4.57	3.92	86		-	-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	ND	4.93	4.27	87		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	4.73	4.92	104		-	-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	4.93	5.21F	106		-	-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	4.93	5.29	107		-	-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	4.76	4.26	90		-	-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	ND	4.93	4.39F	89		-	-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	4.93	4.88	99		-	-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	ND	4.93	4.65	94		-	-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	ND	4.93	4.98	101		-	-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	4.93	3.82	78		-	-		69-133	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1812376-3 QC Sample: L2345016-01 Client ID: EHS-DE-CIM

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**182**	Q			19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**167**	Q			20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	61				34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	60				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	99				61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98				75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	87				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	97				78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	96				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	93				24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	99				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	105				58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	61				10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	103				79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	105				75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	94				72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	105				74-139

Lab Duplicate Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1812376-4 QC Sample: L2345016-02 Client ID: EHS-DE-PMC						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/g	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/g	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/g	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/g	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/g	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/g	NC		30
Perfluorooctanoic Acid (PFOA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/g	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/g	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/g	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/g	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/g	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/g	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonamide (FOSA)	ND	ND	ng/g	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/g	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/g	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/g	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1812376-4 QC Sample: L2345016-02 Client ID: EHS-DE-PMC						
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/g	NC		30

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	99		98		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	103		104		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	103		105		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	88		86		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	94		92		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95		100		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	103		104		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	**172**	Q	**163**	Q	20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	100		95		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	102		104		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	104		99		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	**184**	Q	**198**	Q	19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	56		51		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	107		105		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	32		16		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	63		57		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	95		95		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	86		92		24-159

PCBS

Project Name: EHS-CAPITAL IMPROVEMENTS
Lab Number: L2345016
Project Number: 2021-01
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 08/14/23 13:57
Analyst: MEO
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 10:04
Cleanup Method: EPA 3665A
Cleanup Date: 08/14/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/14/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	52.6	4.67	1	A
Aroclor 1221	ND		ug/kg	52.6	5.27	1	A
Aroclor 1232	ND		ug/kg	52.6	11.2	1	A
Aroclor 1242	ND		ug/kg	52.6	7.10	1	A
Aroclor 1248	ND		ug/kg	52.6	7.90	1	B
Aroclor 1254	ND		ug/kg	52.6	5.76	1	A
Aroclor 1260	ND		ug/kg	52.6	9.73	1	A
Aroclor 1262	ND		ug/kg	52.6	6.68	1	A
Aroclor 1268	ND		ug/kg	52.6	5.45	1	A
PCBs, Total	ND		ug/kg	52.6	4.67	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	69		30-150	A
Decachlorobiphenyl	47		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	50		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02
Client ID: EHS-DE-PMC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:15
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 08/14/23 14:10
Analyst: MEO
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 10:04
Cleanup Method: EPA 3665A
Cleanup Date: 08/14/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/14/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	54.8	4.86	1	A
Aroclor 1221	ND		ug/kg	54.8	5.49	1	A
Aroclor 1232	ND		ug/kg	54.8	11.6	1	A
Aroclor 1242	ND		ug/kg	54.8	7.38	1	A
Aroclor 1248	ND		ug/kg	54.8	8.22	1	A
Aroclor 1254	ND		ug/kg	54.8	5.99	1	A
Aroclor 1260	ND		ug/kg	54.8	10.1	1	A
Aroclor 1262	ND		ug/kg	54.8	6.96	1	A
Aroclor 1268	ND		ug/kg	54.8	5.67	1	A
PCBs, Total	ND		ug/kg	54.8	4.86	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	37		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	38		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 08/15/23 15:48
Analyst: ENT
Percent Solids: 100%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 15:05
Cleanup Method: EPA 3665A
Cleanup Date: 08/15/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/15/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	48.9	4.34	1	A
Aroclor 1221	ND		ug/kg	48.9	4.90	1	A
Aroclor 1232	ND		ug/kg	48.9	10.4	1	A
Aroclor 1242	ND		ug/kg	48.9	6.60	1	A
Aroclor 1248	ND		ug/kg	48.9	7.34	1	A
Aroclor 1254	ND		ug/kg	48.9	5.35	1	A
Aroclor 1260	ND		ug/kg	48.9	9.04	1	A
Aroclor 1262	ND		ug/kg	48.9	6.21	1	A
Aroclor 1268	ND		ug/kg	48.9	5.07	1	A
PCBs, Total	ND		ug/kg	48.9	4.34	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	38		30-150	A
Decachlorobiphenyl	42		30-150	A
2,4,5,6-Tetrachloro-m-xylene	39		30-150	B
Decachlorobiphenyl	41		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 08/14/23 07:43
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 08/13/23 10:04
Cleanup Method: EPA 3665A
Cleanup Date: 08/14/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/14/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 01-02 Batch: WG1815289-1						
Aroclor 1016	ND		ug/kg	47.4	4.21	A
Aroclor 1221	ND		ug/kg	47.4	4.75	A
Aroclor 1232	ND		ug/kg	47.4	10.0	A
Aroclor 1242	ND		ug/kg	47.4	6.39	A
Aroclor 1248	ND		ug/kg	47.4	7.11	A
Aroclor 1254	ND		ug/kg	47.4	5.18	A
Aroclor 1260	ND		ug/kg	47.4	8.76	A
Aroclor 1262	ND		ug/kg	47.4	6.02	A
Aroclor 1268	ND		ug/kg	47.4	4.91	A
PCBs, Total	ND		ug/kg	47.4	4.21	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	78		30-150	A
Decachlorobiphenyl	58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		30-150	B
Decachlorobiphenyl	52		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 08/15/23 15:00
Analyst: ENT

Extraction Method: EPA 3546
Extraction Date: 08/13/23 10:05
Cleanup Method: EPA 3665A
Cleanup Date: 08/15/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/15/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 03 Batch: WG1815342-1						
Aroclor 1016	ND		ug/kg	46.8	4.15	A
Aroclor 1221	ND		ug/kg	46.8	4.69	A
Aroclor 1232	ND		ug/kg	46.8	9.92	A
Aroclor 1242	ND		ug/kg	46.8	6.30	A
Aroclor 1248	ND		ug/kg	46.8	7.02	A
Aroclor 1254	ND		ug/kg	46.8	5.12	A
Aroclor 1260	ND		ug/kg	46.8	8.64	A
Aroclor 1262	ND		ug/kg	46.8	5.94	A
Aroclor 1268	ND		ug/kg	46.8	4.84	A
PCBs, Total	ND		ug/kg	46.8	4.15	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		30-150	A
Decachlorobiphenyl	88		30-150	A
2,4,5,6-Tetrachloro-m-xylene	76		30-150	B
Decachlorobiphenyl	83		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1815289-2 WG1815289-3									
Aroclor 1016	84		98		40-140	15		50	A
Aroclor 1260	78		83		40-140	6		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		87		30-150	A
Decachlorobiphenyl	60		58		30-150	A
2,4,5,6-Tetrachloro-m-xylene	83		94		30-150	B
Decachlorobiphenyl	58		60		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 03 Batch: WG1815342-2 WG1815342-3									
Aroclor 1016	71		70		40-140	1		50	A
Aroclor 1260	70		71		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	68		68		30-150	A
Decachlorobiphenyl	76		75		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		69		30-150	B
Decachlorobiphenyl	74		72		30-150	B

PESTICIDES

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 08/14/23 18:08
Analyst: MMG
Percent Solids: 95%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 09:13
Cleanup Method: EPA 3620B
Cleanup Date: 08/14/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/14/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.65	0.323	1	A
Lindane	ND		ug/kg	0.688	0.307	1	A
Alpha-BHC	ND		ug/kg	0.688	0.195	1	A
Beta-BHC	ND		ug/kg	1.65	0.626	1	A
Heptachlor	ND		ug/kg	0.825	0.370	1	A
Aldrin	ND		ug/kg	1.65	0.581	1	A
Endrin	ND		ug/kg	0.688	0.282	1	A
Dieldrin	ND		ug/kg	1.03	0.516	1	A
4,4'-DDE	ND		ug/kg	1.65	0.382	1	A
4,4'-DDD	ND		ug/kg	1.65	0.589	1	A
4,4'-DDT	ND		ug/kg	1.65	1.33	1	A
Endosulfan I	ND		ug/kg	1.65	0.390	1	A
Endosulfan II	ND		ug/kg	1.65	0.551	1	A
Endosulfan sulfate	ND		ug/kg	0.688	0.327	1	A
cis-Chlordane	ND		ug/kg	2.06	0.575	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	78		30-150	A
2,4,5,6-Tetrachloro-m-xylene	65		30-150	B
Decachlorobiphenyl	94		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Lab Number: L2345016
Project Number: 2021-01
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 08/11/23 16:54
Analyst: EJL
Percent Solids: 95%
Methylation Date: 08/11/23 03:00

Extraction Method: EPA 8151A
Extraction Date: 08/10/23 07:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	172	4.59	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	90		30-150	A
DCAA	95		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02
Client ID: EHS-DE-PMC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:15
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 08/14/23 18:20
Analyst: MMG
Percent Solids: 88%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 09:13
Cleanup Method: EPA 3620B
Cleanup Date: 08/14/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/14/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.76	0.346	1	A
Lindane	ND		ug/kg	0.736	0.329	1	A
Alpha-BHC	ND		ug/kg	0.736	0.209	1	A
Beta-BHC	ND		ug/kg	1.76	0.670	1	A
Heptachlor	ND		ug/kg	0.883	0.396	1	A
Aldrin	ND		ug/kg	1.76	0.622	1	A
Endrin	ND		ug/kg	0.736	0.302	1	A
Dieldrin	ND		ug/kg	1.10	0.552	1	A
4,4'-DDE	ND		ug/kg	1.76	0.408	1	A
4,4'-DDD	ND		ug/kg	1.76	0.630	1	A
4,4'-DDT	ND		ug/kg	1.76	1.42	1	A
Endosulfan I	ND		ug/kg	1.76	0.417	1	A
Endosulfan II	ND		ug/kg	1.76	0.590	1	A
Endosulfan sulfate	ND		ug/kg	0.736	0.350	1	A
cis-Chlordane	ND		ug/kg	2.21	0.615	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	101		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02
Client ID: EHS-DE-PMC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:15
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 08/11/23 17:13
Analyst: EJL
Percent Solids: 88%
Methylation Date: 08/11/23 03:00

Extraction Method: EPA 8151A
Extraction Date: 08/10/23 07:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	186	4.95	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	110		30-150	A
DCAA	114		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 08/17/23 10:48
Analyst: AKM
Percent Solids: 100%

Extraction Method: EPA 3546
Extraction Date: 08/13/23 15:25
Cleanup Method: EPA 3620B
Cleanup Date: 08/16/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/16/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.51	0.296	1	A
Lindane	ND		ug/kg	0.630	0.282	1	A
Alpha-BHC	ND		ug/kg	0.630	0.179	1	A
Beta-BHC	ND		ug/kg	1.51	0.573	1	A
Heptachlor	ND		ug/kg	0.756	0.339	1	A
Aldrin	ND		ug/kg	1.51	0.532	1	A
Endrin	ND		ug/kg	0.630	0.258	1	A
Dieldrin	ND		ug/kg	0.945	0.472	1	A
4,4'-DDE	ND		ug/kg	1.51	0.350	1	A
4,4'-DDD	ND		ug/kg	1.51	0.539	1	A
4,4'-DDT	ND		ug/kg	1.51	1.22	1	A
Endosulfan I	ND		ug/kg	1.51	0.357	1	A
Endosulfan II	ND		ug/kg	1.51	0.505	1	A
Endosulfan sulfate	ND		ug/kg	0.630	0.300	1	A
cis-Chlordane	ND		ug/kg	1.89	0.527	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	62		30-150	A
Decachlorobiphenyl	76		30-150	A
2,4,5,6-Tetrachloro-m-xylene	61		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 08/11/23 17:31
Analyst: EJL
Percent Solids: 100%
Methylation Date: 08/11/23 03:00

Extraction Method: EPA 8151A
Extraction Date: 08/10/23 07:57

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	162	4.32	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	87		30-150	A
DCAA	94		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 08/11/23 08:30
Analyst: AKM

Extraction Method: EPA 8151A
Extraction Date: 08/10/23 03:34

Methylation Date: 08/11/23 03:00

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 01-03 Batch: WG1814097-1						
2,4,5-TP (Silvex)	ND		ug/kg	164	4.35	B

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	94		30-150	A
DCAA	110		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/14/23 16:56
Analyst: MMG

Extraction Method: EPA 3546
Extraction Date: 08/12/23 23:59
Cleanup Method: EPA 3620B
Cleanup Date: 08/14/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/14/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 01-02 Batch: WG1815274-1						
Delta-BHC	ND		ug/kg	1.53	0.300	A
Lindane	ND		ug/kg	0.638	0.285	A
Alpha-BHC	ND		ug/kg	0.638	0.181	A
Beta-BHC	ND		ug/kg	1.53	0.581	A
Heptachlor	ND		ug/kg	0.766	0.343	A
Aldrin	ND		ug/kg	1.53	0.539	A
Endrin	ND		ug/kg	0.638	0.262	A
Dieldrin	ND		ug/kg	0.957	0.479	A
4,4'-DDE	ND		ug/kg	1.53	0.354	A
4,4'-DDD	ND		ug/kg	1.53	0.546	A
4,4'-DDT	ND		ug/kg	1.53	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.362	A
Endosulfan II	ND		ug/kg	1.53	0.512	A
Endosulfan sulfate	ND		ug/kg	0.638	0.304	A
cis-Chlordane	ND		ug/kg	1.91	0.534	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	81		30-150	A
Decachlorobiphenyl	105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	81		30-150	B
Decachlorobiphenyl	109		30-150	B

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 08/17/23 10:14
Analyst: AKM

Extraction Method: EPA 3546
Extraction Date: 08/13/23 15:25
Cleanup Method: EPA 3620B
Cleanup Date: 08/16/23
Cleanup Method: EPA 3660B
Cleanup Date: 08/16/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 03 Batch: WG1815358-1						
Delta-BHC	ND		ug/kg	1.54	0.301	A
Lindane	ND		ug/kg	0.640	0.286	A
Alpha-BHC	ND		ug/kg	0.640	0.182	A
Beta-BHC	ND		ug/kg	1.54	0.582	A
Heptachlor	ND		ug/kg	0.768	0.344	A
Aldrin	ND		ug/kg	1.54	0.541	A
Endrin	ND		ug/kg	0.640	0.262	A
Dieldrin	ND		ug/kg	0.960	0.480	A
4,4'-DDE	ND		ug/kg	1.54	0.355	A
4,4'-DDD	ND		ug/kg	1.54	0.548	A
4,4'-DDT	ND		ug/kg	1.54	1.23	A
Endosulfan I	ND		ug/kg	1.54	0.363	A
Endosulfan II	ND		ug/kg	1.54	0.513	A
Endosulfan sulfate	ND		ug/kg	0.640	0.304	A
cis-Chlordane	ND		ug/kg	1.92	0.535	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	59		30-150	A
Decachlorobiphenyl	73		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	71		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 01-03 Batch: WG1814097-2 WG1814097-3									
2,4,5-TP (Silvex)	105		103		30-150	2		30	B

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	111		99		30-150	A
DCAA	121		124		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 01-02 Batch: WG1815274-2 WG1815274-3									
Delta-BHC	96		98		30-150	2		30	A
Lindane	90		92		30-150	2		30	A
Alpha-BHC	89		92		30-150	3		30	A
Beta-BHC	90		91		30-150	1		30	A
Heptachlor	89		94		30-150	5		30	A
Aldrin	86		92		30-150	7		30	A
Endrin	94		98		30-150	4		30	A
Dieldrin	95		101		30-150	6		30	A
4,4'-DDE	91		99		30-150	8		30	A
4,4'-DDD	98		106		30-150	8		30	A
4,4'-DDT	98		106		30-150	8		30	A
Endosulfan I	86		91		30-150	6		30	A
Endosulfan II	92		98		30-150	6		30	A
Endosulfan sulfate	86		90		30-150	5		30	A
cis-Chlordane	79		83		30-150	5		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	84		81		30-150	A
Decachlorobiphenyl	102		105		30-150	A
2,4,5,6-Tetrachloro-m-xylene	86		83		30-150	B
Decachlorobiphenyl	109		116		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 03 Batch: WG1815358-2 WG1815358-3									
Delta-BHC	60		89		30-150	**39**	Q	30	A
Lindane	52		83		30-150	**46**	Q	30	A
Alpha-BHC	55		88		30-150	**46**	Q	30	A
Beta-BHC	60		103		30-150	**53**	Q	30	A
Heptachlor	54		85		30-150	**45**	Q	30	A
Aldrin	51		84		30-150	**49**	Q	30	A
Endrin	57		91		30-150	**46**	Q	30	A
Dieldrin	60		96		30-150	**46**	Q	30	A
4,4'-DDE	55		88		30-150	**46**	Q	30	A
4,4'-DDD	60		97		30-150	**47**	Q	30	A
4,4'-DDT	60		98		30-150	**48**	Q	30	A
Endosulfan I	54		87		30-150	**47**	Q	30	A
Endosulfan II	59		92		30-150	**44**	Q	30	A
Endosulfan sulfate	52		80		30-150	**42**	Q	30	A
cis-Chlordane	57		91		30-150	**46**	Q	30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	43		70		30-150	A
Decachlorobiphenyl	57		90		30-150	A
2,4,5,6-Tetrachloro-m-xylene	43		67		30-150	B
Decachlorobiphenyl	53		86		30-150	B

METALS

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01 Date Collected: 08/03/23 15:30

Client ID: EHS-DE-CIM Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 95%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	15.1		mg/kg	0.408	0.085	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Barium, Total	40.7		mg/kg	0.408	0.071	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.557		mg/kg	0.204	0.013	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.086	J	mg/kg	0.408	0.040	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Chromium, Total	11.0		mg/kg	0.408	0.039	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Copper, Total	16.1		mg/kg	0.408	0.105	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Lead, Total	14.7		mg/kg	2.04	0.109	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Manganese, Total	315		mg/kg	0.408	0.065	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Mercury, Total	ND		mg/kg	0.072	0.047	1	08/23/23 16:35	08/23/23 23:20	EPA 7471B	1,7471B	GMG
Nickel, Total	15.6		mg/kg	1.02	0.099	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Selenium, Total	0.327	J	mg/kg	0.815	0.105	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Silver, Total	0.138	J	mg/kg	0.204	0.115	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
Zinc, Total	41.8		mg/kg	2.04	0.119	1	08/09/23 12:25	08/23/23 13:03	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	10.8	J	mg/kg	0.844	0.169	1		08/23/23 13:03	NA	107,-	

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02
Client ID: EHS-DE-PMC
Sample Location: ELMIRA, NY
Sample Depth:
Matrix: Soil
Percent Solids: 88%

Date Collected: 08/03/23 15:15
Date Received: 08/03/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	8.65		mg/kg	0.452	0.094	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Barium, Total	85.2		mg/kg	0.452	0.079	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Beryllium, Total	1.12		mg/kg	0.226	0.015	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Cadmium, Total	0.091	J	mg/kg	0.452	0.044	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Chromium, Total	21.4		mg/kg	0.452	0.043	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Copper, Total	23.9		mg/kg	0.452	0.117	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Lead, Total	17.5		mg/kg	2.26	0.121	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Manganese, Total	236		mg/kg	0.452	0.072	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Mercury, Total	ND		mg/kg	0.078	0.051	1	08/23/23 16:35	08/23/23 23:23	EPA 7471B	1,7471B	GMG
Nickel, Total	27.1		mg/kg	1.13	0.109	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Selenium, Total	0.222	J	mg/kg	0.905	0.117	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.226	0.128	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
Zinc, Total	39.9		mg/kg	2.26	0.132	1	08/09/23 12:25	08/23/23 13:06	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	21.4		mg/kg	0.907	0.181	1		08/23/23 13:06	NA	107,-	

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03 Date Collected: 08/03/23 15:00

Client ID: EHS-DE-CCC Date Received: 08/03/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 100%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	1.67		mg/kg	0.397	0.083	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Barium, Total	354		mg/kg	0.397	0.069	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Beryllium, Total	0.082	J	mg/kg	0.198	0.013	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Cadmium, Total	ND		mg/kg	0.397	0.039	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Chromium, Total	7.66		mg/kg	0.397	0.038	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Copper, Total	0.704		mg/kg	0.397	0.102	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Lead, Total	1.69	J	mg/kg	1.98	0.106	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Manganese, Total	3.83		mg/kg	0.397	0.063	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Mercury, Total	ND		mg/kg	0.075	0.049	1	08/23/23 16:35	08/23/23 23:27	EPA 7471B	1,7471B	GMG
Nickel, Total	0.633	J	mg/kg	0.992	0.096	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Selenium, Total	ND		mg/kg	0.794	0.102	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Silver, Total	ND		mg/kg	0.198	0.112	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
Zinc, Total	1.30	J	mg/kg	1.98	0.116	1	08/09/23 12:25	08/23/23 13:09	EPA 3050B	1,6010D	DHL
General Chemistry - Mansfield Lab											
Chromium, Trivalent	7.27	J	mg/kg	0.802	0.160	1		08/23/23 13:09	NA	107,-	

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1813262-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Barium, Total	ND		mg/kg	0.400	0.070	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Beryllium, Total	ND		mg/kg	0.200	0.013	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Cadmium, Total	ND		mg/kg	0.400	0.039	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Chromium, Total	ND		mg/kg	0.400	0.038	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Copper, Total	ND		mg/kg	0.400	0.103	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Lead, Total	ND		mg/kg	2.00	0.107	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Manganese, Total	ND		mg/kg	0.400	0.064	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Nickel, Total	ND		mg/kg	1.00	0.097	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Selenium, Total	ND		mg/kg	0.800	0.103	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Silver, Total	ND		mg/kg	0.200	0.113	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL
Zinc, Total	ND		mg/kg	2.00	0.117	1	08/09/23 12:25	08/23/23 12:03	1,6010D	DHL

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 01-03 Batch: WG1819134-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	08/23/23 16:35	08/23/23 21:58	1,7471B	GMG

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1813262-2 SRM Lot Number: D119-540								
Arsenic, Total	102		-		83-117	-		
Barium, Total	104		-		82-118	-		
Beryllium, Total	106		-		83-117	-		
Cadmium, Total	97		-		82-117	-		
Chromium, Total	102		-		82-119	-		
Copper, Total	97		-		84-116	-		
Lead, Total	107		-		82-118	-		
Manganese, Total	98		-		82-118	-		
Nickel, Total	100		-		82-117	-		
Selenium, Total	106		-		79-121	-		
Silver, Total	97		-		80-120	-		
Zinc, Total	100		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 01-03 Batch: WG1819134-2 SRM Lot Number: D119-540								
Mercury, Total	90		-		73-127	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1813262-3 QC Sample: L2344421-01 Client ID: MS Sample												
Arsenic, Total	5.12	12	16.4	94		-	-		75-125	-		20
Barium, Total	111	201	306	97		-	-		75-125	-		20
Beryllium, Total	0.571	5.02	5.67	102		-	-		75-125	-		20
Cadmium, Total	ND	5.32	4.74	89		-	-		75-125	-		20
Chromium, Total	16.9	20.1	36.5	98		-	-		75-125	-		20
Copper, Total	31.8	25.1	51.6	79		-	-		75-125	-		20
Lead, Total	28.5	53.2	82.4	101		-	-		75-125	-		20
Manganese, Total	288	50.2	326	76		-	-		75-125	-		20
Nickel, Total	15.8	50.2	61.6	91		-	-		75-125	-		20
Selenium, Total	0.726J	12	11.7	97		-	-		75-125	-		20
Silver, Total	ND	5.02	4.82	96		-	-		75-125	-		20
Zinc, Total	54.1	50.2	103	97		-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1819134-3 QC Sample: L2344832-01 Client ID: MS Sample												
Mercury, Total	ND	1.78	1.64	92		-	-		80-120	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1813262-4 QC Sample: L2344421-01 Client ID: DUP Sample						
Arsenic, Total	5.12	5.14	mg/kg	0		20
Barium, Total	111	130	mg/kg	16		20
Beryllium, Total	0.571	0.506	mg/kg	12		20
Cadmium, Total	ND	ND	mg/kg	NC		20
Chromium, Total	16.9	16.3	mg/kg	4		20
Copper, Total	31.8	27.3	mg/kg	15		20
Lead, Total	28.5	32.3	mg/kg	13		20
Manganese, Total	288	274	mg/kg	5		20
Nickel, Total	15.8	14.9	mg/kg	6		20
Selenium, Total	0.726J	0.813J	mg/kg	NC		20
Silver, Total	ND	ND	mg/kg	NC		20
Zinc, Total	54.1	49.3	mg/kg	9		20
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1819134-4 QC Sample: L2344832-01 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2345016
Report Date: 08/24/23

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 01-03 QC Batch ID: WG1813262-6 QC Sample: L2344421-01 Client ID: DUP Sample						
Barium, Total	111	115	mg/kg	4		20
Copper, Total	31.8	31.7	mg/kg	0		20
Manganese, Total	288	304	mg/kg	6		20

INORGANICS
&
MISCELLANEOUS

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-01
Client ID: EHS-DE-CIM
Sample Location: ELMIRA, NY
Sample Depth:
Matrix: Soil

Date Collected: 08/03/23 15:30
Date Received: 08/03/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.8		%	0.100	NA	1	-	08/05/23 11:11	121,2540G	ROI
Cyanide, Total	ND		mg/kg	0.99	0.21	1	08/11/23 14:30	08/11/23 19:20	1,9010C/9012B	JRO
Chromium, Hexavalent	0.179	J	mg/kg	0.844	0.169	1	08/16/23 12:40	08/17/23 12:05	1,7196A	DTH

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-02
Client ID: EHS-DE-PMC
Sample Location: ELMIRA, NY
Sample Depth:
Matrix: Soil

Date Collected: 08/03/23 15:15
Date Received: 08/03/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	88.2		%	0.100	NA	1	-	08/05/23 11:11	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.0	0.22	1	08/11/23 14:30	08/11/23 19:02	1,9010C/9012B	JRO
Chromium, Hexavalent	ND		mg/kg	0.907	0.181	1	08/16/23 12:40	08/17/23 12:05	1,7196A	DTH

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2345016
Report Date: 08/24/23

SAMPLE RESULTS

Lab ID: L2345016-03
Client ID: EHS-DE-CCC
Sample Location: ELMIRA, NY
Sample Depth:
Matrix: Soil

Date Collected: 08/03/23 15:00
Date Received: 08/03/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	99.7		%	0.100	NA	1	-	08/05/23 11:11	121,2540G	ROI
Cyanide, Total	ND		mg/kg	0.98	0.21	1	08/11/23 14:30	08/11/23 19:03	1,9010C/9012B	JRO
Chromium, Hexavalent	0.391	J	mg/kg	0.802	0.160	1	08/16/23 12:40	08/17/23 12:05	1,7196A	DTH

Project Name: EHS-CAPITAL IMPROVEMENTS **Lab Number:** L2345016

Project Number: 2021-01 **Report Date:** 08/24/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 02-03 Batch: WG1814811-1										
Cyanide, Total	ND		mg/kg	0.97	0.20	1	08/11/23 14:30	08/11/23 18:41	1,9010C/9012B	JRO
General Chemistry - Westborough Lab for sample(s): 01 Batch: WG1814813-1										
Cyanide, Total	ND		mg/kg	0.98	0.21	1	08/11/23 14:30	08/11/23 19:14	1,9010C/9012B	JRO
General Chemistry - Westborough Lab for sample(s): 01-03 Batch: WG1816542-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	08/16/23 12:40	08/17/23 12:05	1,7196A	DTH

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-03 Batch: WG1814811-2 WG1814811-3								
Cyanide, Total	**76**	Q	95		80-120	22		35
General Chemistry - Westborough Lab Associated sample(s): 01 Batch: WG1814813-2 WG1814813-3								
Cyanide, Total	**53**	Q	**71**	Q	80-120	18		35
General Chemistry - Westborough Lab Associated sample(s): 01-03 Batch: WG1816542-2								
Chromium, Hexavalent	80		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 02-03 QC Batch ID: WG1814811-4 WG1814811-5 QC Sample: L2346238-01 Client ID: MS Sample												
Cyanide, Total	ND	11	9.9	93		10	100		75-125	1		35
General Chemistry - Westborough Lab Associated sample(s): 01 QC Batch ID: WG1814813-4 WG1814813-5 QC Sample: L2345016-01 Client ID: EHS-DE-CIM												
Cyanide, Total	ND	9.6	9.5	99		10	100		75-125	5		35
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1816542-4 QC Sample: L2345016-03 Client ID: EHS-DE-CCC												
Chromium, Hexavalent	0.391J	1270	1100	86		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: EHS-CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2345016

Report Date: 08/24/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1812226-1 QC Sample: L2344817-01 Client ID: DUP Sample						
Solids, Total	64.1	65.0	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 01-03 QC Batch ID: WG1816542-6 QC Sample: L2345016-03 Client ID: EHS-DE-CCC						
Chromium, Hexavalent	0.391J	0.441J	mg/kg	NC		20

Project Name: EHS-CAPITAL IMPROVEMENTS
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Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2345016-01A	Vial MeOH preserved	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2345016-01B	Vial water preserved	A	NA		3.5	Y	Absent	04-AUG-23 11:01	NYTCL-8260HLW(14)
L2345016-01C	Vial water preserved	A	NA		3.5	Y	Absent	04-AUG-23 11:01	NYTCL-8260HLW(14)
L2345016-01D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2345016-01E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),MN-TI(180),HG-T(28),CD-TI(180)
L2345016-01F	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		HEXCR-7196(30)
L2345016-01G	Plastic 8oz unpreserved	A	NA		3.5	Y	Absent		A2-NY-537-ISOTOPE(90)
L2345016-01H	Plastic 8oz unpreserved	A	NA		3.5	Y	Absent		HOLD-537(14)
L2345016-01I	Glass 500ml/16oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2345016-02A	Vial MeOH preserved	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2345016-02B	Vial water preserved	A	NA		3.5	Y	Absent	04-AUG-23 11:01	NYTCL-8260HLW(14)
L2345016-02C	Vial water preserved	A	NA		3.5	Y	Absent	04-AUG-23 11:01	NYTCL-8260HLW(14)
L2345016-02D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2345016-02E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),PB-TI(180),ZN-TI(180),SE-TI(180),MN-TI(180),HG-T(28),CD-TI(180)
L2345016-02F	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		HEXCR-7196(30)
L2345016-02G	Plastic 8oz unpreserved	A	NA		3.5	Y	Absent		A2-NY-537-ISOTOPE(90)
L2345016-02H	Plastic 8oz unpreserved	A	NA		3.5	Y	Absent		HOLD-537(14)
L2345016-02I	Glass 500ml/16oz unpreserved	A	NA		3.5	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)
L2345016-03A	Vial MeOH preserved	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2345016-03B	Vial water preserved	A	NA		3.5	Y	Absent	04-AUG-23 11:01	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name: EHS-CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2345016
Report Date: 08/24/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2345016-03C	Vial water preserved	A	NA		3.5	Y	Absent	04-AUG-23 11:01	NYTCL-8260HLW(14)
L2345016-03D	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2345016-03E	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),NI-TI(180),CR-TI(180),PB-TI(180),SE-TI(180),ZN-TI(180),CU-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L2345016-03F	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		HEXCR-7196(30)
L2345016-03G	Plastic 8oz unpreserved	A	NA		3.5	Y	Absent		A2-NY-537-ISOTOPE(90)
L2345016-03H	Plastic 8oz unpreserved	A	NA		3.5	Y	Absent		HOLD-537(14)
L2345016-03I	Glass 500ml/16oz unpreserved	A	NA		3.5	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365)

*Values in parentheses indicate holding time in days

Project Name: EHS-CAPITAL IMPROVEMENTS
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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name: EHS-CAPITAL IMPROVEMENTS
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PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

Project Name:	EHS-CAPITAL IMPROVEMENTS	**Lab Number:**	L2345016
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GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

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Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	EHS-CAPITAL IMPROVEMENTS	**Lab Number:**	L2345016
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REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page | of |

Date Rec'd in Lab: 8/4/23

ALPHA Job #: L2345016

Client Information
Client: Sterling Env. Eng.
Address: 24 Wade Rd
Latham, NY 12110
Phone: 518-456-4900
Fax:
Email:

Project Information
Project Name: EHS - Capital Improvements
Project Location: Elmira, NY
Project # 2021-01
(Use Project name as Project #) ☐
Project Manager: M. Deyo / A. Millspaugh
ALPHAQuote #:

Turn-Around Time
Standard ☒ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other CAT. B

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☒ Other DER-10
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
andrew.millspaugh@sterlingenvironmental.com
amanda.castignetti@sterlingenvironmental.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	DER-10 Total Metals, Hg, Hex Cr, Cyanide	DER-10 VOCs (8260)	DER-10 SVOCs (8270)	DER-10 Pests/Herbs (8081, 8151)	Total PCBs (8082)	Total Solids	PFAS/SPLP * (537.1 Modified)	Sample Specific Comments	Total Bottle
48016-01	EHS-DE-CIM	8-3-2023	1530	SOIL	PWS	X	X	X	X	X	X	X	* SPLP only if exceedence of guidelines *	9
-02	EHS-DE-PMC	8-3-2023	1515	SOIL	PWS	X	X	X	X	X	X	X		9
-03	EHS-DE-CCC	8-3-2023	1500	SOIL	PWS	X	X	X	X	X	X	X		9

Container Type: A | A | A | A | A | P | P
Preservative: A | NP | A | A | A | A | A

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
	8-3-2023		8/3/23 1720
	8/3/23 1720		8/4/23 0100

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

COMMONWEALTH OF PENNSYLVANIA

DEPARTMENT OF ENVIRONMENTAL PROTECTION

ACTIVE AND ABANDONED MINE OPERATIONS

BUREAU OF MINING PROGRAMS

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

NONCOAL OPERATOR LICENSE - LARGE MINE

MINING WITH CONSERVATION STANDS FOR PROGRESS

This is to certify that the following person has been duly licensed to engage in mining in the Commonwealth of Pennsylvania until the date of expiration, as shown below:

Name: NATURAL SAND COMPANY, INC.

Address: 149 S BROAD ST
GROVE CITY PA 16127-1522

License Number: 19783

License Issued: 03/14/2023

License Expires: **02/29/2024**

Any person who proceeds to conduct mining activities without a valid authorization or in violation of the terms of the authorization shall be guilty of a misdemeanor and subject to fine or imprisonment, as provided in the 'Noncoal Surface Mining Conservation and Reclamation Act.' This license may be suspended or revoked for failure to comply with the terms of the authorization, the applicable regulations or applicable laws. The terms of this authorization shall include: 1) Operator shall at all times comply with the 'The Clean Streams Law of Pennsylvania' and the 'Noncoal Surface Mining Conservation and Reclamation Act' and the rules and regulations, orders and permits issued under these acts. 2) Licensee shall not proceed to mine minerals by the surface mining method activities without a valid surface mining permit. 3) This certificate shall be displayed at the legal address of the licensee.

Director, Bureau of Mining Programs

Miranda Stelmach

From: McCartney, W Scott <w.scott.mccartney@wsp.com>
Sent: Wednesday, September 27, 2023 1:31 PM
To: Andrew Millspaugh; Zappia, Kaleigh M (DEC); Howe, Alexander; Zappia, Kaleigh M (DEC); david.pratt@dec.ny.gov; Bogardus, Sara (HEALTH); Bonsteel, Nicole; Whelan, Vincent; haustin; Granato, Donald; Fizzano, Thomas
Cc: Etter, Terry R.; Aron Krasnopoler; Kaitlin Ouverson; Amanda McNally; Lawrence Endicott; Kyle Cunningham; Cyr, Scott; Amanda McNally; Amanda Castignetti; mdunn; Mike Fulkerson; Krueger, Kevin D.; Jen Huha; Miranda Stelmach
Subject: RE: NYSDEC #c808022 - ECSD Request to Import Batavia Sod

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic. If you suspect fraud, click "Phish Alert Report."

Andrew,

We have reviewed your request to import 119,000 sq/ft equating to 340 cubic yards of Batavia Turf from Batavia Turf, located on 6465 Transit Rd. Elba, NY 14058 and find it appropriate documentation to proceed.

Thanks,

Scott

W. Scott McCartney, P.E.
Assistant Vice President

M+ 1 484-612-2070

From: Andrew Millspaugh <Andrew.Millspaugh@sterlingenvironmental.com>
Sent: Monday, September 25, 2023 6:07 PM
To: kaleigh.zappia@dec.ny.gov; Howe, Alexander <alexander.howe@wsp.com>; McCartney, W Scott <w.scott.mccartney@wsp.com>; Zappia, Kaleigh M (DEC) <Kaleigh.Zappia@dec.ny.gov>; Pratt, David (DEC) <david.pratt@dec.ny.gov>; Bogardus, Sara (HEALTH) <Sara.Bogardus@health.ny.gov>; Bonsteel, Nicole <nicole.bonsteel@wsp.com>; Whelan, Vincent <vincent.whelan@wsp.com>; haustin@elmiracityschools.com; Granato, Donald <donald.granato@wsp.com>; Fizzano, Thomas <thomas.fizzano@wsp.com>
Cc: Etter, Terry R. <terry.etter@unisys.com>; akrasnopoler@geosyntec.com; Kaitlin Ouverson <KOuverson@Geosyntec.com>; Amanda McNally <AMcNally@Geosyntec.com>; Lawrence Endicott <larry.endicott@keller-na.com>; Kyle Cunningham <kyle.cunningham@reconservices.com>; Cyr, Scott <cyrs@hunt-eas.com>; Amanda McNally <AMcNally@Geosyntec.com>; Amanda Castignetti <Amanda.Castignetti@SterlingEnvironmental.com>; mdunn <mdunn@buildwelliver.com>; Mike Fulkerson <mfulkerson@buildwelliver.com>; Krueger, Kevin D. <Kevin.Krueger@unisys.com>; Jen Huha <JHuha@Geosyntec.com>; Miranda Stelmach <MStelmach@Geosyntec.com>
Subject: NYSDEC #c808022 - ECSD Request to Import Batavia Sod

Kaleigh,

On behalf of ECSD, please see the attached import request form for Batavia Sod to be used in the NAF.

Thanks,

Andrew M. Millspaugh, P.E.
Sterling Environmental Engineering, P.C.
Cell: (518) 573-4378
andrew.millspaugh@sterlingenvironmental.com
www.sterlingenvironmental.com

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NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Batavia Sod

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 300-400

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 10 sieve? Choose an item

Does it contain less than 10%, by weight, material that would pass a size 100 sieve? Choose an item

Is this virgin material from a permitted mine or quarry? no

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Samples were collected to characterize up to 119,000 square feet of sod. According to information provided by NYSDEC, approximately 340 square feet of sod is equivalent to 1 cubic yard of material. Therefore, 119,000 sf is approximately 350 cubic yards. In accordance with DER-10 Table 5.4(e)10, Four (4) grab samples and two (2) composite samples were collected from soil attached to base of the sod. Grab samples were analyzed for VOCs and the composite samples were analyzed for PCBs, SVOCs, Inorganics, Herbicides, Pesticides, and PFAS Compounds.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

Composite sample EHS-SOD-C2 has a detection of total zinc at 119 mg/kg, which is above the DER-10 Appendix 5 allowable levels for Unrestricted Use of 109 mg/kg but below the allowable level for Restricted Residential Use. All other detections were below the allowable levels for Unrestricted Use. See attached table for details.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Batavia Turf

Location where fill was obtained:

6465 Transit Road, Elba, NY 14058

Identification of any state or local approvals as a fill source:

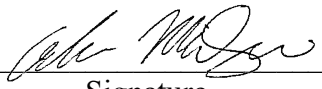
If no approvals are available, provide a brief history of the use of the property that is the fill source:

Batavia Turf grows and sells sod from a sod farm in Batavia, New York.

Provide a list of supporting documentation included with this request:

Summary Table
Analytical Report

The information provided on this form is accurate and complete.



Signature

09/25/2023

Date

Andrew Millspaugh, P.E.

Print Name

Sterling Environmental Engineering, P.C.

Firm

Table 1
Request to Import Sod for NAF
Former Sperry Remediation Site - North Portion
Elmira, NY

ANALYTE	NY-DER10-UU	NY-DER10-RR	EHS-SOD-C1 9/5/2023	EHS-SOD-C2 9/5/2023	EHS-SOD-S1 9/5/2023	EHS-SOD-S2 9/5/2023	EHS-SOD-S3 9/5/2023	EHS-SOD-S4 9/5/2023
GENERAL CHEMISTRY, mg/kg								
Chromium, Trivalent	30	180	10.8	10.2	NA	NA	NA	NA
Chromium, Hexavalent	1	19	0.186 U	0.191 U	NA	NA	NA	NA
Cyanide, Total	27	27	0.22 U	0.25 U	NA	NA	NA	NA
Solids, Total %	---	---	85.8	83.8	86.2	83.9	83.1	84
VOLATILE ORGANICS BY EPA 5035, mg/kg								
1,1,1-Trichloroethane	0.68	0.68	NA	NA	0.00018 U	0.00032 U	0.00016 U	0.00033 U
1,1-Dichloroethane	0.27	0.27	NA	NA	0.00016 U	0.00028 U	0.00014 U	0.00029 U
1,1-Dichloroethene	0.33	0.33	NA	NA	0.00026 U	0.00045 U	0.00024 U	0.00047 U
1,2,4-Trimethylbenzene	3.6	3.6	NA	NA	0.00036 U	0.00064 U	0.00033 U	0.00066 U
1,2-Dichlorobenzene	1.1	1.1	NA	NA	0.00016 U	0.00028 U	0.00014 U	0.00028 U
1,2-Dichloroethane	0.02	0.02	NA	NA	0.00028 U	0.00049 U	0.00025 U	0.00051 U
1,3,5-Trimethylbenzene	8.4	8.4	NA	NA	0.00021 U	0.00037 U	0.00019 U	0.00038 U
1,3-Dichlorobenzene	2.4	2.4	NA	NA	0.00016 U	0.00028 U	0.00015 U	0.00029 U
1,4-Dichlorobenzene	1.8	1.8	NA	NA	0.00018 U	0.00033 U	0.00017 U	0.00034 U
1,4-Dioxane	0.1	0.1	NA	NA	0.038 U	0.067 U	0.035 U	0.07 U
2-Butanone	0.12	0.12	NA	NA	0.0024 U	0.0042 U	0.0022 U	0.0044 U
Acetone	0.05	0.05	NA	NA	0.0076 J	0.0092 U	0.0048 U	0.0095 U
Benzene	0.06	0.06	NA	NA	0.00018 U	0.00032 U	0.00016 U	0.00033 U
Carbon tetrachloride	0.76	0.76	NA	NA	0.00025 U	0.00044 U	0.00023 U	0.00046 U
Chlorobenzene	1.1	1.1	NA	NA	0.00014 U	0.00024 U	0.00012 U	0.00025 U
Chloroform	0.37	0.37	NA	NA	0.00015 U	0.00027 U	0.00014 U	0.00028 U
cis-1,2-Dichloroethene	0.25	0.25	NA	NA	0.00019 U	0.00033 U	0.00017 U	0.00035 U
Ethylbenzene	1	1	NA	NA	0.00015 U	0.00027 U	0.00014 U	0.00028 U
Methyl tert butyl ether	0.93	0.93	NA	NA	0.00022 U	0.00038 U	0.0002 U	0.0004 U
Methylene chloride	0.05	0.05	NA	NA	0.0025 U	0.0044 U	0.0023 U	0.0045 U
n-Butylbenzene	12	12	NA	NA	0.00018 U	0.00032 U	0.00016 U	0.00033 U
n-Propylbenzene	3.9	3.9	NA	NA	0.00018 U	0.00033 U	0.00017 U	0.00034 U
o-Xylene	---	---	NA	NA	0.00031 U	0.00056 U	0.00029 U	0.00058 U
p/m-Xylene	---	---	NA	NA	0.00061 U	0.0011 U	0.00055 U	0.0011 U
sec-Butylbenzene	11	11	NA	NA	0.00016 U	0.00028 U	0.00014 U	0.00029 U
tert-Butylbenzene	5.9	5.9	NA	NA	0.00013 U	0.00022 U	0.00012 U	0.00023 U
Tetrachloroethene	1.3	1.3	NA	NA	0.00021 U	0.00037 U	0.00019 U	0.00039 U
Toluene	0.7	0.7	NA	NA	0.00059 U	0.001 U	0.00054 U	0.0011 U
trans-1,2-Dichloroethene	0.19	0.19	NA	NA	0.00015 U	0.00026 U	0.00014 U	0.00027 U
Trichloroethene	0.47	0.47	NA	NA	0.00015 U	0.00026 U	0.00014 U	0.00027 U
Vinyl chloride	0.02	0.02	NA	NA	0.00036 U	0.00064 U	0.00033 U	0.00066 U
PERFLUORINATED ALKYL ACIDS BY ISOTOPE DILUTION, mg/kg								
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	---	---	0.00032 U	0.00032 U	NA	NA	NA	NA
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	---	---	0.0002 U	0.0002 U	NA	NA	NA	NA
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	---	---	9.4E-05 U	9.5E-05 U	NA	NA	NA	NA
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	---	---	0.00022 U	0.00023 U	NA	NA	NA	NA
Perfluorobutanesulfonic Acid (PFBS)	---	---	4.3E-05 U	4.4E-05 U	NA	NA	NA	NA
Perfluorobutanoic Acid (PFBA)	---	---	0.00011 J	9.7E-05 J	NA	NA	NA	NA
Perfluorodecanesulfonic Acid (PFDS)	---	---	0.00017 U	0.00017 U	NA	NA	NA	NA
Perfluorodecanoic Acid (PFDA)	---	---	7.4E-05 U	7.5E-05 U	NA	NA	NA	NA
Perfluorododecanoic Acid (PFDoA)	---	---	7.8E-05 U	7.9E-05 U	NA	NA	NA	NA
Perfluoroheptanesulfonic Acid (PFHpS)	---	---	0.00015 U	0.00015 U	NA	NA	NA	NA
Perfluoroheptanoic Acid (PFHpA)	---	---	5.3E-05 J	5.1E-05 U	NA	NA	NA	NA
Perfluorohexanesulfonic Acid (PFHxS)	---	---	6.7E-05 U	6.8E-05 U	NA	NA	NA	NA
Perfluorohexanoic Acid (PFHxA)	---	---	5.8E-05 U	5.9E-05 U	NA	NA	NA	NA
Perfluorononanoic Acid (PFNA)	---	---	8.3E-05 U	8.4E-05 U	NA	NA	NA	NA
Perfluorooctanesulfonamide (FOSA)	---	---	0.00011 U	0.00011 U	NA	NA	NA	NA
Perfluorooctanesulfonic Acid (PFOS)	0.00088	0.044	0.00015 J	0.00015 U	NA	NA	NA	NA
Perfluorooctanoic Acid (PFOA)	0.00066	0.033	0.00013 J	0.00011 J	NA	NA	NA	NA
Perfluoropentanoic Acid (PFPeA)	---	---	5.1E-05 U	5.2E-05 U	NA	NA	NA	NA
Perfluorotetradecanoic Acid (PFTA)	---	---	0.00006 U	6.1E-05 U	NA	NA	NA	NA
Perfluorotridecanoic Acid (PFTrDA)	---	---	0.00023 U	0.00023 U	NA	NA	NA	NA
Perfluoroundecanoic Acid (PFUnA)	---	---	5.2E-05 U	5.3E-05 U	NA	NA	NA	NA
PFOA/PFOS, Total	---	---	0.00028 J	0.00011 J	NA	NA	NA	NA
ORGANOCHLORINE PESTICIDES BY GC, mg/kg								
4,4'-DDD	0.0033	13	0.00066 U	0.00067 U	NA	NA	NA	NA
4,4'-DDE	0.0033	8.9	0.00043 U	0.0017 J	NA	NA	NA	NA
4,4'-DDT	0.0033	7.9	0.00149 U	0.0015 U	NA	NA	NA	NA
Aldrin	0.005	0.097	0.00065 U	0.00066 U	NA	NA	NA	NA
Alpha-BHC	0.02	0.02	0.00022 U	0.00022 U	NA	NA	NA	NA
Beta-BHC	0.036	0.09	0.0007 U	0.00071 U	NA	NA	NA	NA
cis-Chlordane	0.094	2.9	0.00065 U	0.00065 U	NA	NA	NA	NA

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Table 1
Request to Import Sod for NAF
Former Sperry Remediation Site - North Portion
Elmira, NY

ANALYTE	NY-DER10-UU	NY-DER10-RR	EHS-SOD-C1 9/5/2023	EHS-SOD-C2 9/5/2023	EHS-SOD-S1 9/5/2023	EHS-SOD-S2 9/5/2023	EHS-SOD-S3 9/5/2023	EHS-SOD-S4 9/5/2023
Delta-BHC	0.04	0.25	0.00036 U	0.00037 U	NA	NA	NA	NA
Dieldrin	0.005	0.1	0.00058 U	0.00058 U	NA	NA	NA	NA
Endosulfan I	2.4	24	0.00044 U	0.00044 U	NA	NA	NA	NA
Endosulfan II	2.4	24	0.00062 U	0.00062 U	NA	NA	NA	NA
Endosulfan sulfate	2.4	24	0.00037 U	0.00037 U	NA	NA	NA	NA
Endrin	0.014	0.06	0.00032 U	0.00032 U	NA	NA	NA	NA
Heptachlor	0.042	0.38	0.00042 U	0.00042 U	NA	NA	NA	NA
Lindane	0.1	0.1	0.00035 U	0.00035 U	NA	NA	NA	NA
CHLORINATED HERBICIDES BY GC, mg/kg								
2,4,5-TP (Silvex)	3.8	3.8	0.00512 U	0.00523 U	NA	NA	NA	NA
2-Methylphenol	0.33	0.33	0.03 U	0.03 U	NA	NA	NA	NA
3-Methylphenol/4-Methylphenol	0.33	0.33	0.03 U	0.031 U	NA	NA	NA	NA
Acenaphthene	20	98	0.02 U	0.02 U	NA	NA	NA	NA
Acenaphthylene	100	100	0.03 U	0.03 U	NA	NA	NA	NA
Anthracene	100	100	0.038 U	0.038 U	NA	NA	NA	NA
Benzo(a)anthracene	1	1	0.022 U	0.022 U	NA	NA	NA	NA
Benzo(a)pyrene	1	1	0.047 U	0.048 U	NA	NA	NA	NA
Benzo(b)fluoranthene	1	1	0.032 U	0.033 U	NA	NA	NA	NA
Benzo(ghi)perylene	100	100	0.023 U	0.023 U	NA	NA	NA	NA
Benzo(k)fluoranthene	0.8	1.7	0.031 U	0.032 U	NA	NA	NA	NA
Chrysene	1	1	0.02 U	0.02 U	NA	NA	NA	NA
Dibenzo(a,h)anthracene	0.33	0.33	0.022 U	0.023 U	NA	NA	NA	NA
Dibenzofuran	7	59	0.018 U	0.019 U	NA	NA	NA	NA
Fluoranthene	100	100	0.022 U	0.023 U	NA	NA	NA	NA
Fluorene	30	100	0.019 U	0.019 U	NA	NA	NA	NA
Hexachlorobenzene	0.33	1.2	0.022 U	0.022 U	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	0.5	0.5	0.027 U	0.028 U	NA	NA	NA	NA
Naphthalene	12	12	0.024 U	0.024 U	NA	NA	NA	NA
Pentachlorophenol	0.8	0.8	0.042 U	0.043 U	NA	NA	NA	NA
Phenanthrene	100	100	0.024 U	0.024 U	NA	NA	NA	NA
Phenol	0.33	0.33	0.029 U	0.03 U	NA	NA	NA	NA
Pyrene	100	100	0.019 U	0.02 U	NA	NA	NA	NA
POLYCHLORINATED BIPHENYLS BY GC, mg/kg								
Aroclor 1016	0.1	1	0.00505 U	0.00512 U	NA	NA	NA	NA
Aroclor 1221	0.1	1	0.0057 U	0.00578 U	NA	NA	NA	NA
Aroclor 1232	0.1	1	0.012 U	0.0122 U	NA	NA	NA	NA
Aroclor 1242	0.1	1	0.00766 U	0.00778 U	NA	NA	NA	NA
Aroclor 1248	0.1	1	0.00853 U	0.00866 U	NA	NA	NA	NA
Aroclor 1254	0.1	1	0.00622 U	0.00631 U	NA	NA	NA	NA
Aroclor 1260	0.1	1	0.0105 U	0.0107 U	NA	NA	NA	NA
Aroclor 1262	0.1	1	0.00722 U	0.00733 U	NA	NA	NA	NA
Aroclor 1268	0.1	1	0.00589 U	0.00598 U	NA	NA	NA	NA
PCBs, Total	0.1	1	0.00505 U	0.00512 U	NA	NA	NA	NA
TOTAL METALSmg/kg								
Arsenic, Total	13	16	3.85	3.68	NA	NA	NA	NA
Barium, Total	350	400	57.2	53.2	NA	NA	NA	NA
Beryllium, Total	7.2	47	0.458	0.422	NA	NA	NA	NA
Cadmium, Total	2.5	4.3	0.244 J	0.279 J	NA	NA	NA	NA
Chromium, Total	---	---	10.8	10.2	NA	NA	NA	NA
Copper, Total	50	270	13	14.2	NA	NA	NA	NA
Lead, Total	63	400	16	18.4	NA	NA	NA	NA
Manganese, Total	1600	2000	439	322	NA	NA	NA	NA
Mercury, Total	0.18	0.73	0.059 U	0.053 U	NA	NA	NA	NA
Nickel, Total	30	130	7.91	7.27	NA	NA	NA	NA
Selenium, Total	3.9	4	0.235 J	0.265 J	NA	NA	NA	NA
Silver, Total	2	8.3	0.219 J	0.246	NA	NA	NA	NA
Zinc, Total	109	2480	80.2	**119**	NA	NA	NA	NA

NY-DER10-UU: New York DER-10 Unrestricted Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10, May 3, 2010.
NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10, May 3, 2010.
PFOA and PFOS standards from NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances under NYSDEC Part 375 Remedial Programs, November
---: No applicable standard.
Bold indicates an exceedance of NY-DER10-UU standards.
U: Not Detected. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
NA: Not analyzed.

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ANALYTICAL REPORT

Lab Number:	L2351406
Client:	Sterling Environmental Engineering 24 Wade Road Latham, NY 12110
ATTN:	Andrew Millspaugh
Phone:	(518) 456-4900
Project Name:	EHS CAPITAL IMPROVEMENTS-SOD
Project Number:	2021-01
Report Date:	09/21/23

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Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01

Lab Number: L2351406
Report Date: 09/21/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2351406-01	EHS-SOD-S1	SOIL	ELMIRA, NY / BATAVIA, NY	09/05/23 09:40	09/05/23
L2351406-02	EHS-SOD-S2	SOIL	ELMIRA, NY / BATAVIA, NY	09/05/23 09:50	09/05/23
L2351406-03	EHS-SOD-S3	SOIL	ELMIRA, NY / BATAVIA, NY	09/05/23 10:30	09/05/23
L2351406-04	EHS-SOD-S4	SOIL	ELMIRA, NY / BATAVIA, NY	09/05/23 10:40	09/05/23
L2351406-05	EHS-SOD-C1	SOIL	ELMIRA, NY / BATAVIA, NY	09/05/23 10:15	09/05/23
L2351406-06	EHS-SOD-C2	SOIL	ELMIRA, NY / BATAVIA, NY	09/05/23 10:55	09/05/23

Project Name:	EHS CAPITAL IMPROVEMENTS-SOD	**Lab Number:**	L2351406
Project Number:	2021-01	**Report Date:**	09/21/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	EHS CAPITAL IMPROVEMENTS-SOD	**Lab Number:**	L2351406
Project Number:	2021-01	**Report Date:**	09/21/23

Case Narrative (continued)

Report Submission

September 21, 2023: This final report includes the results of all requested analyses.

September 19, 2023: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by Isotope Dilution

L2351406-06: The MeOH fraction of the extraction is reported for perfluorooctanesulfonamide (fosa) due to better extraction efficiency of the perfluoro[13c8]octanesulfonamide (m8fosa) Extracted Internal Standard. The Extracted Internal Standard recovery for the WG1826639-3 MS, performed on L2351406-05, is below the acceptance criteria (less than 10%) for perfluoro[13c8]octanesulfonamide (m8fosa) (3%); however, all associated target analytes are within MS criteria; therefore, no further action was taken.

Cyanide, Total

The WG1827243-2/-3 LCS/LCSD recoveries for cyanide, total (121%/122%), associated with L2351406-05 and -06, are outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

Hexavalent Chromium

The WG1827452-2 LCS recovery for chromium, hexavalent (74%), associated with L2351406-05 and -06, is outside our in-house acceptance criteria, but within the vendor-certified acceptance limits. The results of the original analyses are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Melissa Sturgis Melissa Sturgis

Title: Technical Director/Representative Date: 09/21/23

ORGANICS

VOLATILES

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-01
Client ID: EHS-SOD-S1
Sample Location: ELMIRA, NY / BATAVIA, NY

Date Collected: 09/05/23 09:40
Date Received: 09/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 09/14/23 18:19
Analyst: JIC
Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.4	2.5	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.6	0.15	1
Carbon tetrachloride	ND		ug/kg	1.1	0.25	1
Tetrachloroethene	ND		ug/kg	0.54	0.21	1
Chlorobenzene	ND		ug/kg	0.54	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.28	1
1,1,1-Trichloroethane	ND		ug/kg	0.54	0.18	1
Benzene	ND		ug/kg	0.54	0.18	1
Toluene	ND		ug/kg	1.1	0.59	1
Ethylbenzene	ND		ug/kg	1.1	0.15	1
Vinyl chloride	ND		ug/kg	1.1	0.36	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.26	1
trans-1,2-Dichloroethene	ND		ug/kg	1.6	0.15	1
Trichloroethene	ND		ug/kg	0.54	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.18	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.22	1
p/m-Xylene	ND		ug/kg	2.2	0.61	1
o-Xylene	ND		ug/kg	1.1	0.31	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.19	1
Acetone	7.6	J	ug/kg	11	5.2	1
2-Butanone	ND		ug/kg	11	2.4	1
n-Butylbenzene	ND		ug/kg	1.1	0.18	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
n-Propylbenzene	ND		ug/kg	1.1	0.18	1

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-01 Date Collected: 09/05/23 09:40

Client ID: EHS-SOD-S1 Date Received: 09/05/23

Sample Location: ELMIRA, NY / BATAVIA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.21	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.36	1
1,4-Dioxane	ND		ug/kg	86	38.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	126		70-130
Toluene-d8	104		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	114		70-130

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-02
Client ID: EHS-SOD-S2
Sample Location: ELMIRA, NY / BATAVIA, NY

Date Collected: 09/05/23 09:50
Date Received: 09/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 09/14/23 18:43
Analyst: JIC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	9.6	4.4	1
1,1-Dichloroethane	ND		ug/kg	1.9	0.28	1
Chloroform	ND		ug/kg	2.9	0.27	1
Carbon tetrachloride	ND		ug/kg	1.9	0.44	1
Tetrachloroethene	ND		ug/kg	0.96	0.37	1
Chlorobenzene	ND		ug/kg	0.96	0.24	1
1,2-Dichloroethane	ND		ug/kg	1.9	0.49	1
1,1,1-Trichloroethane	ND		ug/kg	0.96	0.32	1
Benzene	ND		ug/kg	0.96	0.32	1
Toluene	ND		ug/kg	1.9	1.0	1
Ethylbenzene	ND		ug/kg	1.9	0.27	1
Vinyl chloride	ND		ug/kg	1.9	0.64	1
1,1-Dichloroethene	ND		ug/kg	1.9	0.45	1
trans-1,2-Dichloroethene	ND		ug/kg	2.9	0.26	1
Trichloroethene	ND		ug/kg	0.96	0.26	1
1,2-Dichlorobenzene	ND		ug/kg	3.8	0.28	1
1,3-Dichlorobenzene	ND		ug/kg	3.8	0.28	1
1,4-Dichlorobenzene	ND		ug/kg	3.8	0.33	1
Methyl tert butyl ether	ND		ug/kg	3.8	0.38	1
p/m-Xylene	ND		ug/kg	3.8	1.1	1
o-Xylene	ND		ug/kg	1.9	0.56	1
cis-1,2-Dichloroethene	ND		ug/kg	1.9	0.33	1
Acetone	ND		ug/kg	19	9.2	1
2-Butanone	ND		ug/kg	19	4.2	1
n-Butylbenzene	ND		ug/kg	1.9	0.32	1
sec-Butylbenzene	ND		ug/kg	1.9	0.28	1
tert-Butylbenzene	ND		ug/kg	3.8	0.22	1
n-Propylbenzene	ND		ug/kg	1.9	0.33	1

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-02 Date Collected: 09/05/23 09:50

Client ID: EHS-SOD-S2 Date Received: 09/05/23

Sample Location: ELMIRA, NY / BATAVIA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	3.8	0.37	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.8	0.64	1
1,4-Dioxane	ND		ug/kg	150	67.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	122		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	113		70-130
Dibromofluoromethane	113		70-130

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-03
Client ID: EHS-SOD-S3
Sample Location: ELMIRA, NY / BATAVIA, NY

Date Collected: 09/05/23 10:30
Date Received: 09/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 09/14/23 19:06
Analyst: JIC
Percent Solids: 83%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	4.9	2.3	1
1,1-Dichloroethane	ND		ug/kg	0.99	0.14	1
Chloroform	ND		ug/kg	1.5	0.14	1
Carbon tetrachloride	ND		ug/kg	0.99	0.23	1
Tetrachloroethene	ND		ug/kg	0.49	0.19	1
Chlorobenzene	ND		ug/kg	0.49	0.12	1
1,2-Dichloroethane	ND		ug/kg	0.99	0.25	1
1,1,1-Trichloroethane	ND		ug/kg	0.49	0.16	1
Benzene	ND		ug/kg	0.49	0.16	1
Toluene	ND		ug/kg	0.99	0.54	1
Ethylbenzene	ND		ug/kg	0.99	0.14	1
Vinyl chloride	ND		ug/kg	0.99	0.33	1
1,1-Dichloroethene	ND		ug/kg	0.99	0.24	1
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14	1
Trichloroethene	ND		ug/kg	0.49	0.14	1
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14	1
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15	1
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17	1
Methyl tert butyl ether	ND		ug/kg	2.0	0.20	1
p/m-Xylene	ND		ug/kg	2.0	0.55	1
o-Xylene	ND		ug/kg	0.99	0.29	1
cis-1,2-Dichloroethene	ND		ug/kg	0.99	0.17	1
Acetone	ND		ug/kg	9.9	4.8	1
2-Butanone	ND		ug/kg	9.9	2.2	1
n-Butylbenzene	ND		ug/kg	0.99	0.16	1
sec-Butylbenzene	ND		ug/kg	0.99	0.14	1
tert-Butylbenzene	ND		ug/kg	2.0	0.12	1
n-Propylbenzene	ND		ug/kg	0.99	0.17	1

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-03 Date Collected: 09/05/23 10:30

Client ID: EHS-SOD-S3 Date Received: 09/05/23

Sample Location: ELMIRA, NY / BATAVIA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33	1
1,4-Dioxane	ND		ug/kg	79	35.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	124		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	114		70-130

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-04
Client ID: EHS-SOD-S4
Sample Location: ELMIRA, NY / BATAVIA, NY

Date Collected: 09/05/23 10:40
Date Received: 09/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 09/14/23 19:29
Analyst: JIC
Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	9.9	4.5	1
1,1-Dichloroethane	ND		ug/kg	2.0	0.29	1
Chloroform	ND		ug/kg	3.0	0.28	1
Carbon tetrachloride	ND		ug/kg	2.0	0.46	1
Tetrachloroethene	ND		ug/kg	0.99	0.39	1
Chlorobenzene	ND		ug/kg	0.99	0.25	1
1,2-Dichloroethane	ND		ug/kg	2.0	0.51	1
1,1,1-Trichloroethane	ND		ug/kg	0.99	0.33	1
Benzene	ND		ug/kg	0.99	0.33	1
Toluene	ND		ug/kg	2.0	1.1	1
Ethylbenzene	ND		ug/kg	2.0	0.28	1
Vinyl chloride	ND		ug/kg	2.0	0.66	1
1,1-Dichloroethene	ND		ug/kg	2.0	0.47	1
trans-1,2-Dichloroethene	ND		ug/kg	3.0	0.27	1
Trichloroethene	ND		ug/kg	0.99	0.27	1
1,2-Dichlorobenzene	ND		ug/kg	4.0	0.28	1
1,3-Dichlorobenzene	ND		ug/kg	4.0	0.29	1
1,4-Dichlorobenzene	ND		ug/kg	4.0	0.34	1
Methyl tert butyl ether	ND		ug/kg	4.0	0.40	1
p/m-Xylene	ND		ug/kg	4.0	1.1	1
o-Xylene	ND		ug/kg	2.0	0.58	1
cis-1,2-Dichloroethene	ND		ug/kg	2.0	0.35	1
Acetone	ND		ug/kg	20	9.5	1
2-Butanone	ND		ug/kg	20	4.4	1
n-Butylbenzene	ND		ug/kg	2.0	0.33	1
sec-Butylbenzene	ND		ug/kg	2.0	0.29	1
tert-Butylbenzene	ND		ug/kg	4.0	0.23	1
n-Propylbenzene	ND		ug/kg	2.0	0.34	1

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-04 Date Collected: 09/05/23 10:40

Client ID: EHS-SOD-S4 Date Received: 09/05/23

Sample Location: ELMIRA, NY / BATAVIA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	4.0	0.38	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.0	0.66	1
1,4-Dioxane	ND		ug/kg	160	70.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	123		70-130
Toluene-d8	105		70-130
4-Bromofluorobenzene	115		70-130
Dibromofluoromethane	115		70-130

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 09/14/23 11:40
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1827943-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Vinyl chloride	ND		ug/kg	1.0	0.34
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Acetone	ND		ug/kg	10	4.8
2-Butanone	ND		ug/kg	10	2.2
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 09/14/23 11:40
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by GC/MS - Westborough Lab for sample(s): 01-04 Batch: WG1827943-5					
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	**152**	Q	70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	109		70-130
Dibromofluoromethane	112		70-130

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS-SOD

Project Number: 2021-01

Lab Number: L2351406

Report Date: 09/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1827943-3 WG1827943-4								
Methylene chloride	97		98		70-130	1		30
1,1-Dichloroethane	113		112		70-130	1		30
Chloroform	103		103		70-130	0		30
Carbon tetrachloride	92		96		70-130	4		30
Tetrachloroethene	92		88		70-130	4		30
Chlorobenzene	100		98		70-130	2		30
1,2-Dichloroethane	120		120		70-130	0		30
1,1,1-Trichloroethane	112		107		70-130	5		30
Benzene	106		103		70-130	3		30
Toluene	112		109		70-130	3		30
Ethylbenzene	108		105		70-130	3		30
Vinyl chloride	110		108		67-130	2		30
1,1-Dichloroethene	87		85		65-135	2		30
trans-1,2-Dichloroethene	94		94		70-130	0		30
Trichloroethene	103		104		70-130	1		30
1,2-Dichlorobenzene	101		98		70-130	3		30
1,3-Dichlorobenzene	102		98		70-130	4		30
1,4-Dichlorobenzene	101		97		70-130	4		30
Methyl tert butyl ether	94		92		66-130	2		30
p/m-Xylene	98		96		70-130	2		30
o-Xylene	98		96		70-130	2		30
cis-1,2-Dichloroethene	92		92		70-130	0		30
Acetone	**150**	Q	**149**	Q	54-140	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS-SOD

Project Number: 2021-01

Lab Number: L2351406

Report Date: 09/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by GC/MS - Westborough Lab Associated sample(s): 01-04 Batch: WG1827943-3 WG1827943-4								
2-Butanone	119		105		70-130	13		30
n-Butylbenzene	123		116		70-130	6		30
sec-Butylbenzene	114		108		70-130	5		30
tert-Butylbenzene	108		103		70-130	5		30
n-Propylbenzene	121		115		70-130	5		30
1,3,5-Trimethylbenzene	115		109		70-130	5		30
1,2,4-Trimethylbenzene	115		110		70-130	4		30
1,4-Dioxane	74		**56**	Q	65-136	28		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	126		121		70-130
Toluene-d8	107		106		70-130
4-Bromofluorobenzene	114		113		70-130
Dibromofluoromethane	92		92		70-130

SEMIVOLATILES

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01
Lab Number: L2351406
Report Date: 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-05
Client ID: EHS-SOD-C1
Sample Location: ELMIRA, NY / BATAVIA, NY

Date Collected: 09/05/23 10:15
Date Received: 09/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 09/07/23 15:14
Analyst: EJL
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 09/06/23 07:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	150	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	ND		ug/kg	120	22.	1
Naphthalene	ND		ug/kg	190	24.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	150	47.	1
Benzo(b)fluoranthene	ND		ug/kg	120	32.	1
Benzo(k)fluoranthene	ND		ug/kg	120	31.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	150	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	150	23.	1
Fluorene	ND		ug/kg	190	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	22.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	150	27.	1
Pyrene	ND		ug/kg	120	19.	1
Dibenzofuran	ND		ug/kg	190	18.	1
Pentachlorophenol	ND		ug/kg	150	42.	1
Phenol	ND		ug/kg	190	29.	1
2-Methylphenol	ND		ug/kg	190	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	30.	1
1,4-Dioxane	ND		ug/kg	29	8.9	1

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-05 Date Collected: 09/05/23 10:15

Client ID: EHS-SOD-C1 Date Received: 09/05/23

Sample Location: ELMIRA, NY / BATAVIA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	47		25-120
Phenol-d6	51		10-120
Nitrobenzene-d5	42		23-120
2-Fluorobiphenyl	63		30-120
2,4,6-Tribromophenol	52		10-136
4-Terphenyl-d14	39		18-120

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-05
Client ID: EHS-SOD-C1
Sample Location: ELMIRA, NY / BATAVIA, NY

Date Collected: 09/05/23 10:15
Date Received: 09/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/13/23 07:30
Analyst: AC
Percent Solids: 86%

Extraction Method: ALPHA 23528
Extraction Date: 09/12/23 17:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.107	J	ng/g	0.554	0.025	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.554	0.051	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.277	0.043	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.554	0.058	1
Perfluoroheptanoic Acid (PFHpA)	0.053	J	ng/g	0.277	0.050	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.277	0.067	1
Perfluorooctanoic Acid (PFOA)	0.127	J	ng/g	0.277	0.046	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.554	0.199	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.554	0.151	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.277	0.083	1
Perfluorooctanesulfonic Acid (PFOS)	0.149	J	ng/g	0.277	0.144	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.277	0.074	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.554	0.318	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.554	0.223	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.554	0.052	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.554	0.169	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.554	0.108	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.554	0.094	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.554	0.078	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.554	0.226	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.554	0.060	1
PFOA/PFOS, Total	0.276	J	ng/g	0.277	0.046	1

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-05 Date Collected: 09/05/23 10:15

Client ID: EHS-SOD-C1 Date Received: 09/05/23

Sample Location: ELMIRA, NY / BATAVIA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	76		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	64		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	92		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	93		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	89		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	79		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	83		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	102		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	72		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	81		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	86		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	104		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	108		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	114		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	15		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	124		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	98		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	67		24-159

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01
Lab Number: L2351406
Report Date: 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-06
Client ID: EHS-SOD-C2
Sample Location: ELMIRA, NY / BATAVIA, NY

Date Collected: 09/05/23 10:55
Date Received: 09/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 09/07/23 15:31
Analyst: EJL
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 09/06/23 07:52

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	160	20.	1
Hexachlorobenzene	ND		ug/kg	120	22.	1
Fluoranthene	ND		ug/kg	120	23.	1
Naphthalene	ND		ug/kg	200	24.	1
Benzo(a)anthracene	ND		ug/kg	120	22.	1
Benzo(a)pyrene	ND		ug/kg	160	48.	1
Benzo(b)fluoranthene	ND		ug/kg	120	33.	1
Benzo(k)fluoranthene	ND		ug/kg	120	32.	1
Chrysene	ND		ug/kg	120	20.	1
Acenaphthylene	ND		ug/kg	160	30.	1
Anthracene	ND		ug/kg	120	38.	1
Benzo(ghi)perylene	ND		ug/kg	160	23.	1
Fluorene	ND		ug/kg	200	19.	1
Phenanthrene	ND		ug/kg	120	24.	1
Dibenzo(a,h)anthracene	ND		ug/kg	120	23.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	160	28.	1
Pyrene	ND		ug/kg	120	20.	1
Dibenzofuran	ND		ug/kg	200	19.	1
Pentachlorophenol	ND		ug/kg	160	43.	1
Phenol	ND		ug/kg	200	30.	1
2-Methylphenol	ND		ug/kg	200	30.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	280	31.	1
1,4-Dioxane	ND		ug/kg	30	9.1	1

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-06 Date Collected: 09/05/23 10:55

Client ID: EHS-SOD-C2 Date Received: 09/05/23

Sample Location: ELMIRA, NY / BATAVIA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	44		25-120
Phenol-d6	46		10-120
Nitrobenzene-d5	37		23-120
2-Fluorobiphenyl	62		30-120
2,4,6-Tribromophenol	46		10-136
4-Terphenyl-d14	46		18-120

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-06
Client ID: EHS-SOD-C2
Sample Location: ELMIRA, NY / BATAVIA, NY

Date Collected: 09/05/23 10:55
Date Received: 09/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/13/23 08:03
Analyst: AC
Percent Solids: 84%

Extraction Method: ALPHA 23528
Extraction Date: 09/12/23 17:14

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	0.097	J	ng/g	0.563	0.026	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.563	0.052	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.281	0.044	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.563	0.059	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.281	0.051	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.281	0.068	1
Perfluorooctanoic Acid (PFOA)	0.114	J	ng/g	0.281	0.047	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.563	0.202	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.563	0.154	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.281	0.084	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.281	0.146	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.281	0.075	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.563	0.323	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.563	0.227	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.563	0.053	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.563	0.172	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.563	0.095	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.563	0.079	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.563	0.230	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.563	0.061	1
PFOA/PFOS, Total	0.114	J	ng/g	0.281	0.047	1

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-06 Date Collected: 09/05/23 10:55

Client ID: EHS-SOD-C2 Date Received: 09/05/23

Sample Location: ELMIRA, NY / BATAVIA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	82		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	70		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	99		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	88		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	82		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	101		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	73		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	81		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	88		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	97		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	88		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	100		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	98		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	83		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	55		24-159

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Lab Number: L2351406
Project Number: 2021-01
Report Date: 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-06
Client ID: EHS-SOD-C2
Sample Location: ELMIRA, NY / BATAVIA, NY

Date Collected: 09/05/23 10:55
Date Received: 09/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/13/23 11:38
Analyst: AC
Percent Solids: 84%

Extraction Method: ALPHA 23528
Extraction Date: 09/12/23 15:30

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.563	0.110	1

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	63		10-117

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 09/07/23 07:36
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 09/06/23 07:32

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05-06 Batch: WG1824024-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Dibenzofuran	ND		ug/kg	160	16.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
1,4-Dioxane	ND		ug/kg	24	7.5

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01
Lab Number: L2351406
Report Date: 09/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 09/07/23 07:36
Analyst: JG

Extraction Method: EPA 3546
Extraction Date: 09/06/23 07:32

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05-06 Batch: WG1824024-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	67		25-120
Phenol-d6	64		10-120
Nitrobenzene-d5	54		23-120
2-Fluorobiphenyl	73		30-120
2,4,6-Tribromophenol	59		10-136
4-Terphenyl-d14	70		18-120

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/13/23 05:32
Analyst: AC

Extraction Method: ALPHA 23528
Extraction Date: 09/12/23 17:14

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 06 Batch: WG1826639-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/13/23 05:32
Analyst: AC

Extraction Method: ALPHA 23528
Extraction Date: 09/12/23 17:14

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 06 Batch: WG1826639-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	101		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	84		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	110		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	117		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	110		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	99		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	94		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	118		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	83		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	90		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	113		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	123		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	118		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	70		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	129		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	98		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	68		24-159

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 09/13/23 11:20
Analyst: AC

Extraction Method: ALPHA 23528
Extraction Date: 09/12/23 15:30

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 06 Batch: WG1826639-1					
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	87		10-117

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01
Lab Number: L2351406
Report Date: 09/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1824024-2 WG1824024-3								
Acenaphthene	63		64		31-137	2		50
Hexachlorobenzene	63		64		40-140	2		50
Fluoranthene	66		66		40-140	0		50
Naphthalene	64		68		40-140	6		50
Benzo(a)anthracene	70		70		40-140	0		50
Benzo(a)pyrene	65		69		40-140	6		50
Benzo(b)fluoranthene	58		62		40-140	7		50
Benzo(k)fluoranthene	64		66		40-140	3		50
Chrysene	70		70		40-140	0		50
Acenaphthylene	69		70		40-140	1		50
Anthracene	68		68		40-140	0		50
Benzo(ghi)perylene	61		64		40-140	5		50
Fluorene	66		68		40-140	3		50
Phenanthrene	66		65		40-140	2		50
Dibenzo(a,h)anthracene	66		67		40-140	2		50
Indeno(1,2,3-cd)pyrene	70		72		40-140	3		50
Pyrene	65		66		35-142	2		50
Dibenzofuran	69		70		40-140	1		50
Pentachlorophenol	79		82		17-109	4		50
Phenol	57		60		26-90	5		50
2-Methylphenol	62		64		30-130.	3		50
3-Methylphenol/4-Methylphenol	63		65		30-130	3		50
1,4-Dioxane	40		45		40-140	12		50

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS-SOD

Project Number: 2021-01

Lab Number: L2351406

Report Date: 09/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05-06 Batch: WG1824024-2 WG1824024-3								

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	60		65		25-120
Phenol-d6	60		63		10-120
Nitrobenzene-d5	52		54		23-120
2-Fluorobiphenyl	69		70		30-120
2,4,6-Tribromophenol	61		60		10-136
4-Terphenyl-d14	65		62		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01
Lab Number: L2351406
Report Date: 09/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06 Batch: WG1826639-2								
Perfluorobutanoic Acid (PFBA)	104		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	101		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	105		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	102		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	100		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	97		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	107		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	95		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	114		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	113		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	100		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	112		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	100		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	98		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	97		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	106		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	109		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	103		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	109		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	117		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	115		-		69-133	-		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS-SOD

Project Number: 2021-01

Lab Number: L2351406

Report Date: 09/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06 Batch: WG1826639-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	100				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	84				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	110				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	121				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	110				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	99				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	124				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	85				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	98				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	112				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	127				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	108				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	95				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	128				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	96				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	68				24-159

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS-SOD

Project Number: 2021-01

Lab Number: L2351406

Report Date: 09/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06 Batch: WG1826639-2								
Perfluorooctanesulfonamide (FOSA)	93		-		67-137	-		30

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	91				10-117

Matrix Spike Analysis

Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS-SOD

Project Number: 2021-01

Lab Number: L2351406

Report Date: 09/21/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1826639-3 QC Sample: L2351406-05 Client ID: EHS-SOD-C1												
Perfluorobutanoic Acid (PFBA)	0.107J	5.59	5.79	102		-	-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	ND	5.59	5.52	99		-	-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.96	5.10	103		-	-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	ND	5.59	5.67	101		-	-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	0.053J	5.59	5.63	100		-	-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	5.11	5.01	98		-	-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	0.127J	5.59	5.99	105		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.32	4.81	90		-	-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.33	6.20	116		-	-		70-132	-		30
Perfluorononanoic Acid (PFNA)	ND	5.59	6.34	113		-	-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	0.149J	5.19	5.20	97		-	-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	ND	5.59	6.60	118		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.37	5.04	94		-	-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.59	5.32	95		-	-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.59	4.86	87		-	-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.4	5.66	105		-	-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	ND	5.59	5.63	101		-	-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.59	5.81	104		-	-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	ND	5.59	5.36	96		-	-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	ND	5.59	7.21	129		-	-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.59	6.85	123		-	-		69-133	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS-SOD ***Lab Number:*** L2351406

Project Number: 2021-01 ***Report Date:*** 09/21/23

Parameter	*Native Sample*	*MS Added*	*MS Found*	*MS %Recovery*	*Qual*	*MSD Found*	*MSD %Recovery*	*Qual*	*Recovery Limits*	*RPD*	*Qual*	*RPD Limits*
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1826639-3 QC Sample: L2351406-05 Client ID: EHS-SOD-C1												

Surrogate (Extracted Internal Standard)	*MS % Recovery*	*MS Qualifier*	*MSD % Recovery*	*MSD Qualifier*	*Acceptance Criteria*
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	100				19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	107				20-154
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	104				34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	101				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	109				61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	85				75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	107				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	96				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	90				78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	95				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	54				24-159
Perfluoro[13C4]Butanoic Acid (MPFBA)	85				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	72				58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	**3**	Q			10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	85				79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	89				75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	72				72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	100				74-139

Lab Duplicate Analysis
Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01

Lab Number: L2351406
Report Date: 09/21/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1826639-4 QC Sample: L2351406-06 Client ID: EHS-SOD-C2						
Perfluorobutanoic Acid (PFBA)	0.097J	0.097J	ng/g	NC		30
Perfluoropentanoic Acid (PFPeA)	ND	ND	ng/g	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/g	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/g	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/g	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/g	NC		30
Perfluorooctanoic Acid (PFOA)	0.114J	0.105J	ng/g	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	ND	ng/g	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/g	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonic Acid (PFOS)	ND	ND	ng/g	NC		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/g	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/g	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/g	NC		30
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/g	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/g	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/g	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/g	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/g	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01

Lab Number: L2351406
Report Date: 09/21/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 06 QC Batch ID: WG1826639-4 QC Sample: L2351406-06 Client ID: EHS-SOD-C2

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	82		83		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	70		70		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	95		96		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	99		104		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92		92		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	88		94		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	82		85		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	101		103		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	73		79		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	81		82		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	88		88		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	97		97		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	88		95		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	100		102		61-155
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	98		92		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	83		80		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	55		51		24-159

PCBS

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01
Lab Number: L2351406
Report Date: 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-05
Client ID: EHS-SOD-C1
Sample Location: ELMIRA, NY / BATAVIA, NY

Date Collected: 09/05/23 10:15
Date Received: 09/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/07/23 09:40
Analyst: MEO
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 09/06/23 14:16
Cleanup Method: EPA 3665A
Cleanup Date: 09/06/23
Cleanup Method: EPA 3660B
Cleanup Date: 09/07/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	56.8	5.05	1	A
Aroclor 1221	ND		ug/kg	56.8	5.70	1	A
Aroclor 1232	ND		ug/kg	56.8	12.0	1	A
Aroclor 1242	ND		ug/kg	56.8	7.66	1	A
Aroclor 1248	ND		ug/kg	56.8	8.53	1	A
Aroclor 1254	ND		ug/kg	56.8	6.22	1	A
Aroclor 1260	ND		ug/kg	56.8	10.5	1	A
Aroclor 1262	ND		ug/kg	56.8	7.22	1	A
Aroclor 1268	ND		ug/kg	56.8	5.89	1	A
PCBs, Total	ND		ug/kg	56.8	5.05	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	71		30-150	A
Decachlorobiphenyl	64		30-150	A
2,4,5,6-Tetrachloro-m-xylene	71		30-150	B
Decachlorobiphenyl	63		30-150	B

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01
Lab Number: L2351406
Report Date: 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-06
Client ID: EHS-SOD-C2
Sample Location: ELMIRA, NY / BATAVIA, NY

Date Collected: 09/05/23 10:55
Date Received: 09/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 09/07/23 09:48
Analyst: MEO
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 09/06/23 14:16
Cleanup Method: EPA 3665A
Cleanup Date: 09/06/23
Cleanup Method: EPA 3660B
Cleanup Date: 09/07/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	57.7	5.12	1	A
Aroclor 1221	ND		ug/kg	57.7	5.78	1	A
Aroclor 1232	ND		ug/kg	57.7	12.2	1	A
Aroclor 1242	ND		ug/kg	57.7	7.78	1	A
Aroclor 1248	ND		ug/kg	57.7	8.66	1	A
Aroclor 1254	ND		ug/kg	57.7	6.31	1	A
Aroclor 1260	ND		ug/kg	57.7	10.7	1	A
Aroclor 1262	ND		ug/kg	57.7	7.33	1	A
Aroclor 1268	ND		ug/kg	57.7	5.98	1	A
PCBs, Total	ND		ug/kg	57.7	5.12	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	70		30-150	A
Decachlorobiphenyl	65		30-150	A
2,4,5,6-Tetrachloro-m-xylene	72		30-150	B
Decachlorobiphenyl	64		30-150	B

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01
Lab Number: L2351406
Report Date: 09/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 09/07/23 01:13
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 09/06/23 13:55
Cleanup Method: EPA 3665A
Cleanup Date: 09/06/23
Cleanup Method: EPA 3660B
Cleanup Date: 09/07/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 05-06 Batch: WG1824254-1						
Aroclor 1016	ND		ug/kg	47.9	4.25	A
Aroclor 1221	ND		ug/kg	47.9	4.80	A
Aroclor 1232	ND		ug/kg	47.9	10.2	A
Aroclor 1242	ND		ug/kg	47.9	6.46	A
Aroclor 1248	ND		ug/kg	47.9	7.18	A
Aroclor 1254	ND		ug/kg	47.9	5.24	A
Aroclor 1260	ND		ug/kg	47.9	8.85	A
Aroclor 1262	ND		ug/kg	47.9	6.08	A
Aroclor 1268	ND		ug/kg	47.9	4.96	A
PCBs, Total	ND		ug/kg	47.9	4.25	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	77		30-150	A
Decachlorobiphenyl	85		30-150	A
2,4,5,6-Tetrachloro-m-xylene	84		30-150	B
Decachlorobiphenyl	80		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS-SOD

Project Number: 2021-01

Lab Number: L2351406

Report Date: 09/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 05-06 Batch: WG1824254-2 WG1824254-3									
Aroclor 1016	76		77		40-140	1		50	A
Aroclor 1260	75		74		40-140	1		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	73		75		30-150	A
Decachlorobiphenyl	79		81		30-150	A
2,4,5,6-Tetrachloro-m-xylene	75		79		30-150	B
Decachlorobiphenyl	80		85		30-150	B

PESTICIDES

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-05
Client ID: EHS-SOD-C1
Sample Location: ELMIRA, NY / BATAVIA, NY

Date Collected: 09/05/23 10:15
Date Received: 09/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/07/23 12:54
Analyst: ER
Percent Solids: 86%

Extraction Method: EPA 3546
Extraction Date: 09/06/23 10:26
Cleanup Method: EPA 3620B
Cleanup Date: 09/06/23
Cleanup Method: EPA 3660B
Cleanup Date: 09/06/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.86	0.363	1	A
Lindane	ND		ug/kg	0.773	0.346	1	A
Alpha-BHC	ND		ug/kg	0.773	0.220	1	A
Beta-BHC	ND		ug/kg	1.86	0.704	1	A
Heptachlor	ND		ug/kg	0.928	0.416	1	A
Aldrin	ND		ug/kg	1.86	0.654	1	A
Endrin	ND		ug/kg	0.773	0.317	1	A
Dieldrin	ND		ug/kg	1.16	0.580	1	A
4,4'-DDE	ND		ug/kg	1.86	0.429	1	A
4,4'-DDD	ND	IP	ug/kg	1.86	0.662	1	A
4,4'-DDT	ND		ug/kg	1.86	1.49	1	A
Endosulfan I	ND		ug/kg	1.86	0.438	1	A
Endosulfan II	ND		ug/kg	1.86	0.620	1	A
Endosulfan sulfate	ND		ug/kg	0.773	0.368	1	A
cis-Chlordane	ND		ug/kg	2.32	0.646	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	67		30-150	B
Decachlorobiphenyl	55		30-150	B

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Lab Number: L2351406
Project Number: 2021-01
Report Date: 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-05
Client ID: EHS-SOD-C1
Sample Location: ELMIRA, NY / BATAVIA, NY

Date Collected: 09/05/23 10:15
Date Received: 09/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/08/23 19:00
Analyst: EJL
Percent Solids: 86%
Methylation Date: 09/08/23 07:58

Extraction Method: EPA 8151A
Extraction Date: 09/06/23 21:00

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	192	5.12	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	103		30-150	A
DCAA	90		30-150	B

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-06
Client ID: EHS-SOD-C2
Sample Location: ELMIRA, NY / BATAVIA, NY

Date Collected: 09/05/23 10:55
Date Received: 09/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 09/07/23 13:05
Analyst: ER
Percent Solids: 84%

Extraction Method: EPA 3546
Extraction Date: 09/06/23 10:26
Cleanup Method: EPA 3620B
Cleanup Date: 09/06/23
Cleanup Method: EPA 3660B
Cleanup Date: 09/06/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.86	0.365	1	A
Lindane	ND		ug/kg	0.777	0.348	1	A
Alpha-BHC	ND		ug/kg	0.777	0.221	1	A
Beta-BHC	ND		ug/kg	1.86	0.707	1	A
Heptachlor	ND		ug/kg	0.933	0.418	1	A
Aldrin	ND		ug/kg	1.86	0.657	1	A
Endrin	ND		ug/kg	0.777	0.319	1	A
Dieldrin	ND		ug/kg	1.17	0.583	1	A
4,4'-DDE	1.70	J	ug/kg	1.86	0.431	1	A
4,4'-DDD	ND		ug/kg	1.86	0.665	1	B
4,4'-DDT	ND		ug/kg	1.86	1.50	1	A
Endosulfan I	ND		ug/kg	1.86	0.441	1	A
Endosulfan II	ND		ug/kg	1.86	0.623	1	A
Endosulfan sulfate	ND		ug/kg	0.777	0.370	1	A
cis-Chlordane	ND		ug/kg	2.33	0.650	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	63		30-150	A
Decachlorobiphenyl	63		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	62		30-150	B

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Lab Number: L2351406
Project Number: 2021-01
Report Date: 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-06
Client ID: EHS-SOD-C2
Sample Location: ELMIRA, NY / BATAVIA, NY

Date Collected: 09/05/23 10:55
Date Received: 09/05/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 09/08/23 19:18
Analyst: EJL
Percent Solids: 84%
Methylation Date: 09/08/23 07:58

Extraction Method: EPA 8151A
Extraction Date: 09/06/23 21:01

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	197	5.23	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	100		30-150	A
DCAA	85		30-150	B

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01
Lab Number: L2351406
Report Date: 09/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 09/07/23 10:53
Analyst: ER

Extraction Method: EPA 3546
Extraction Date: 09/06/23 10:26
Cleanup Method: EPA 3620B
Cleanup Date: 09/06/23
Cleanup Method: EPA 3660B
Cleanup Date: 09/06/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 05-06 Batch: WG1824132-1						
Delta-BHC	ND		ug/kg	1.56	0.306	A
Lindane	ND		ug/kg	0.652	0.292	A
Alpha-BHC	ND		ug/kg	0.652	0.185	A
Beta-BHC	ND		ug/kg	1.56	0.594	A
Heptachlor	ND		ug/kg	0.783	0.351	A
Aldrin	ND		ug/kg	1.56	0.551	A
Endrin	ND		ug/kg	0.652	0.267	A
Dieldrin	ND		ug/kg	0.978	0.489	A
4,4'-DDE	ND		ug/kg	1.56	0.362	A
4,4'-DDD	ND		ug/kg	1.56	0.558	A
4,4'-DDT	ND		ug/kg	1.56	1.26	A
Endosulfan I	ND		ug/kg	1.56	0.370	A
Endosulfan II	ND		ug/kg	1.56	0.523	A
Endosulfan sulfate	ND		ug/kg	0.652	0.310	A
cis-Chlordane	ND		ug/kg	1.96	0.545	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	72		30-150	A
Decachlorobiphenyl	83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	73		30-150	B

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01
Lab Number: L2351406
Report Date: 09/21/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 09/07/23 08:26
Analyst: AKM

Extraction Method: EPA 8151A
Extraction Date: 09/06/23 19:52

Methylation Date: 09/07/23 06:56

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 05-06 Batch: WG1824375-1						
2,4,5-TP (Silvex)	ND		ug/kg	164	4.38	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	85		30-150	A
DCAA	80		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS-SOD

Project Number: 2021-01

Lab Number: L2351406

Report Date: 09/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05-06 Batch: WG1824132-2 WG1824132-3									
Delta-BHC	104		93		30-150	11		30	A
Lindane	92		83		30-150	10		30	A
Alpha-BHC	93		83		30-150	11		30	A
Beta-BHC	90		85		30-150	6		30	A
Heptachlor	94		85		30-150	10		30	A
Aldrin	92		84		30-150	9		30	A
Endrin	98		88		30-150	11		30	A
Dieldrin	104		94		30-150	10		30	A
4,4'-DDE	96		87		30-150	10		30	A
4,4'-DDD	104		95		30-150	9		30	A
4,4'-DDT	104		96		30-150	8		30	A
Endosulfan I	99		87		30-150	13		30	A
Endosulfan II	97		89		30-150	9		30	A
Endosulfan sulfate	90		82		30-150	9		30	A
cis-Chlordane	82		74		30-150	10		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	80		73		30-150	A
Decachlorobiphenyl	90		83		30-150	A
2,4,5,6-Tetrachloro-m-xylene	85		79		30-150	B
Decachlorobiphenyl	78		74		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS-SOD

Project Number: 2021-01

Lab Number: L2351406

Report Date: 09/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 05-06 Batch: WG1824375-2 WG1824375-3									
2,4,5-TP (Silvex)	86		92		30-150	7		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	90		94		30-150	A
DCAA	92		96		30-150	B

METALS

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-05 Date Collected: 09/05/23 10:15

Client ID: EHS-SOD-C1 Date Received: 09/05/23

Sample Location: ELMIRA, NY / BATAVIA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 86%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.85		mg/kg	0.456	0.095	1	09/12/23 22:33	09/13/23 17:26	EPA 3050B	1,6010D	JMF
Barium, Total	57.2		mg/kg	0.456	0.079	1	09/12/23 22:33	09/13/23 17:26	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.458		mg/kg	0.228	0.015	1	09/12/23 22:33	09/13/23 17:26	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.244	J	mg/kg	0.456	0.045	1	09/12/23 22:33	09/13/23 17:26	EPA 3050B	1,6010D	JMF
Chromium, Total	10.8		mg/kg	0.456	0.044	1	09/12/23 22:33	09/13/23 17:26	EPA 3050B	1,6010D	JMF
Copper, Total	13.0		mg/kg	0.456	0.118	1	09/12/23 22:33	09/13/23 17:26	EPA 3050B	1,6010D	JMF
Lead, Total	16.0		mg/kg	2.28	0.122	1	09/12/23 22:33	09/13/23 17:26	EPA 3050B	1,6010D	JMF
Manganese, Total	439		mg/kg	0.456	0.072	1	09/12/23 22:33	09/13/23 17:26	EPA 3050B	1,6010D	JMF
Mercury, Total	ND		mg/kg	0.091	0.059	1	09/12/23 23:16	09/18/23 12:35	EPA 7471B	1,7471B	MJR
Nickel, Total	7.91		mg/kg	1.14	0.110	1	09/12/23 22:33	09/13/23 17:26	EPA 3050B	1,6010D	JMF
Selenium, Total	0.235	J	mg/kg	0.911	0.118	1	09/12/23 22:33	09/13/23 17:26	EPA 3050B	1,6010D	JMF
Silver, Total	0.219	J	mg/kg	0.228	0.129	1	09/12/23 22:33	09/13/23 17:26	EPA 3050B	1,6010D	JMF
Zinc, Total	80.2		mg/kg	2.28	0.133	1	09/12/23 22:33	09/13/23 17:26	EPA 3050B	1,6010D	JMF
General Chemistry - Mansfield Lab											
Chromium, Trivalent	10.8		mg/kg	0.932	0.186	1		09/14/23 21:34	NA	107,-	

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-06 Date Collected: 09/05/23 10:55

Client ID: EHS-SOD-C2 Date Received: 09/05/23

Sample Location: ELMIRA, NY / BATAVIA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 84%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	3.68		mg/kg	0.471	0.098	1	09/12/23 22:33	09/13/23 17:29	EPA 3050B	1,6010D	JMF
Barium, Total	53.2		mg/kg	0.471	0.082	1	09/12/23 22:33	09/13/23 17:29	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.422		mg/kg	0.235	0.016	1	09/12/23 22:33	09/13/23 17:29	EPA 3050B	1,6010D	JMF
Cadmium, Total	0.279	J	mg/kg	0.471	0.046	1	09/12/23 22:33	09/13/23 17:29	EPA 3050B	1,6010D	JMF
Chromium, Total	10.2		mg/kg	0.471	0.045	1	09/12/23 22:33	09/13/23 17:29	EPA 3050B	1,6010D	JMF
Copper, Total	14.2		mg/kg	0.471	0.121	1	09/12/23 22:33	09/13/23 17:29	EPA 3050B	1,6010D	JMF
Lead, Total	18.4		mg/kg	2.35	0.126	1	09/12/23 22:33	09/13/23 17:29	EPA 3050B	1,6010D	JMF
Manganese, Total	322		mg/kg	0.471	0.075	1	09/12/23 22:33	09/13/23 17:29	EPA 3050B	1,6010D	JMF
Mercury, Total	ND		mg/kg	0.081	0.053	1	09/12/23 23:16	09/18/23 12:39	EPA 7471B	1,7471B	MJR
Nickel, Total	7.27		mg/kg	1.18	0.114	1	09/12/23 22:33	09/13/23 17:29	EPA 3050B	1,6010D	JMF
Selenium, Total	0.265	J	mg/kg	0.942	0.121	1	09/12/23 22:33	09/13/23 17:29	EPA 3050B	1,6010D	JMF
Silver, Total	0.246		mg/kg	0.235	0.133	1	09/12/23 22:33	09/13/23 17:29	EPA 3050B	1,6010D	JMF
Zinc, Total	119		mg/kg	2.35	0.138	1	09/12/23 22:33	09/13/23 17:29	EPA 3050B	1,6010D	JMF
General Chemistry - Mansfield Lab											
Chromium, Trivalent	10.2		mg/kg	0.955	0.191	1		09/14/23 21:34	NA	107,-	

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05-06 Batch: WG1824821-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	09/12/23 22:33	09/13/23 15:42	1,6010D	JMF
Barium, Total	ND		mg/kg	0.400	0.070	1	09/12/23 22:33	09/13/23 15:42	1,6010D	JMF
Beryllium, Total	ND		mg/kg	0.200	0.013	1	09/12/23 22:33	09/13/23 15:42	1,6010D	JMF
Cadmium, Total	ND		mg/kg	0.400	0.039	1	09/12/23 22:33	09/13/23 15:42	1,6010D	JMF
Chromium, Total	ND		mg/kg	0.400	0.038	1	09/12/23 22:33	09/13/23 15:42	1,6010D	JMF
Copper, Total	ND		mg/kg	0.400	0.103	1	09/12/23 22:33	09/13/23 15:42	1,6010D	JMF
Lead, Total	ND		mg/kg	2.00	0.107	1	09/12/23 22:33	09/13/23 15:42	1,6010D	JMF
Manganese, Total	ND		mg/kg	0.400	0.064	1	09/12/23 22:33	09/13/23 15:42	1,6010D	JMF
Nickel, Total	ND		mg/kg	1.00	0.097	1	09/12/23 22:33	09/13/23 15:42	1,6010D	JMF
Selenium, Total	ND		mg/kg	0.800	0.103	1	09/12/23 22:33	09/13/23 15:42	1,6010D	JMF
Silver, Total	ND		mg/kg	0.200	0.113	1	09/12/23 22:33	09/13/23 15:42	1,6010D	JMF
Zinc, Total	ND		mg/kg	2.00	0.117	1	09/12/23 22:33	09/13/23 15:42	1,6010D	JMF

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05-06 Batch: WG1824822-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	09/12/23 23:16	09/18/23 11:29	1,7471B	MJR

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS-SOD

Project Number: 2021-01

Lab Number: L2351406

Report Date: 09/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-06 Batch: WG1824821-2 SRM Lot Number: D119-540								
Arsenic, Total	101		-		83-117	-		
Barium, Total	106		-		82-118	-		
Beryllium, Total	107		-		83-117	-		
Cadmium, Total	90		-		82-117	-		
Chromium, Total	99		-		82-119	-		
Copper, Total	97		-		84-116	-		
Lead, Total	103		-		82-118	-		
Manganese, Total	104		-		82-118	-		
Nickel, Total	97		-		82-117	-		
Selenium, Total	102		-		79-121	-		
Silver, Total	100		-		80-120	-		
Zinc, Total	99		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 05-06 Batch: WG1824822-2 SRM Lot Number: D119-540								
Mercury, Total	105		-		73-127	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01
Lab Number: L2351406
Report Date: 09/21/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1824821-3 WG1824821-4 QC Sample: L2351329-01 Client ID: MS Sample												
Arsenic, Total	2.34	9.96	11.0	87		12.0	97		75-125	9		20
Barium, Total	33.6	166	194	97		199	100		75-125	3		20
Beryllium, Total	0.302J	4.15	4.47	108		4.61	111		75-125	3		20
Cadmium, Total	ND	4.4	3.81	86		3.98	90		75-125	4		20
Chromium, Total	9.61	16.6	24.7	91		25.8	98		75-125	4		20
Copper, Total	11.7	20.8	29.1	84		31.4	95		75-125	8		20
Lead, Total	29.1	44	64.8	81		68.0	88		75-125	5		20
Manganese, Total	294	41.5	323	**70**	Q	362	**164**	Q	75-125	11		20
Nickel, Total	8.60	41.5	44.1	86		47.1	93		75-125	7		20
Selenium, Total	ND	9.96	8.81	88		9.63	97		75-125	9		20
Silver, Total	ND	4.15	3.87	93		4.21	102		75-125	8		20
Zinc, Total	34.4	41.5	66.5	77		70.1	86		75-125	5		20
Total Metals - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1824822-3 WG1824822-4 QC Sample: L2351329-01 Client ID: MS Sample												
Mercury, Total	0.079J	1.58	1.91	120		1.84	**123**	Q	80-120	4		20

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01

Lab Serial Dilution Analysis
Batch Quality Control

Lab Number: L2351406
Report Date: 09/21/23

Parameter	Native Sample	Serial Dilution	Units	% D	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05-06 QC Batch ID: WG1824821-6 QC Sample: L2351329-01 Client ID: DUP Sample						
Barium, Total	33.6	36.5	mg/kg	9		20
Manganese, Total	294	313	mg/kg	6		20

INORGANICS
&
MISCELLANEOUS

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01
Lab Number: L2351406
Report Date: 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-01
Client ID: EHS-SOD-S1
Sample Location: ELMIRA, NY / BATAVIA, NY
Sample Depth:
Matrix: Soil
Date Collected: 09/05/23 09:40
Date Received: 09/05/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	86.2		%	0.100	NA	1	-	09/06/23 10:29	121,2540G	ROI

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01
Lab Number: L2351406
Report Date: 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-02
Client ID: EHS-SOD-S2
Sample Location: ELMIRA, NY / BATAVIA, NY
Sample Depth:
Matrix: Soil

Date Collected: 09/05/23 09:50
Date Received: 09/05/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.9		%	0.100	NA	1	-	09/06/23 10:29	121,2540G	ROI

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01
Lab Number: L2351406
Report Date: 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-03
Client ID: EHS-SOD-S3
Sample Location: ELMIRA, NY / BATAVIA, NY
Sample Depth:
Matrix: Soil

Date Collected: 09/05/23 10:30
Date Received: 09/05/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.1		%	0.100	NA	1	-	09/06/23 10:49	121,2540G	ROI

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01
Lab Number: L2351406
Report Date: 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-04
Client ID: EHS-SOD-S4
Sample Location: ELMIRA, NY / BATAVIA, NY
Sample Depth:
Matrix: Soil

Date Collected: 09/05/23 10:40
Date Received: 09/05/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	84.0		%	0.100	NA	1	-	09/06/23 10:49	121,2540G	ROI

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01
Lab Number: L2351406
Report Date: 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-05
Client ID: EHS-SOD-C1
Sample Location: ELMIRA, NY / BATAVIA, NY
Sample Depth:
Matrix: Soil

Date Collected: 09/05/23 10:15
Date Received: 09/05/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	85.8		%	0.100	NA	1	-	09/06/23 10:49	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.1	0.22	1	09/14/23 03:15	09/14/23 16:30	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/kg	0.932	0.186	1	09/14/23 12:41	09/14/23 21:34	1,7196A	WMT

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01
Lab Number: L2351406
Report Date: 09/21/23

SAMPLE RESULTS

Lab ID: L2351406-06
Client ID: EHS-SOD-C2
Sample Location: ELMIRA, NY / BATAVIA, NY
Sample Depth:
Matrix: Soil

Date Collected: 09/05/23 10:55
Date Received: 09/05/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	83.8		%	0.100	NA	1	-	09/06/23 10:49	121,2540G	ROI
Cyanide, Total	ND		mg/kg	1.2	0.25	1	09/14/23 03:15	09/14/23 16:31	1,9010C/9012B	JER
Chromium, Hexavalent	ND		mg/kg	0.955	0.191	1	09/14/23 12:41	09/14/23 21:34	1,7196A	WMT

Project Name: EHS CAPITAL IMPROVEMENTS-SOD **Lab Number:** L2351406

Project Number: 2021-01 **Report Date:** 09/21/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 05-06 Batch: WG1827243-1										
Cyanide, Total	ND		mg/kg	0.92	0.20	1	09/14/23 03:15	09/14/23 16:12	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 05-06 Batch: WG1827452-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	09/14/23 12:41	09/14/23 21:34	1,7196A	WMT

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS-SOD

Project Number: 2021-01

Lab Number: L2351406

Report Date: 09/21/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05-06 Batch: WG1827243-2 WG1827243-3								
Cyanide, Total	**121**	Q	**122**	Q	80-120	1		35
General Chemistry - Westborough Lab Associated sample(s): 05-06 Batch: WG1827452-2								
Chromium, Hexavalent	**74**	Q	-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01

Lab Number: L2351406
Report Date: 09/21/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05-06 QC Batch ID: WG1827243-4 WG1827243-5 QC Sample: L2352908-03 Client ID: MS Sample												
Cyanide, Total	0.32J	11	14	120		15	**130**	Q	75-125	7		35
General Chemistry - Westborough Lab Associated sample(s): 05-06 QC Batch ID: WG1827452-4 QC Sample: L2351406-05 Client ID: EHS-SOD-C1												
Chromium, Hexavalent	ND	1360	1290	95		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS-SOD

Project Number: 2021-01

Lab Number: L2351406

Report Date: 09/21/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-02 QC Batch ID: WG1824026-1 QC Sample: L2351329-01 Client ID: DUP Sample						
Solids, Total	92.8	93.2	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 03-06 QC Batch ID: WG1824029-1 QC Sample: L2351250-01 Client ID: DUP Sample						
Solids, Total	93.8	93.3	%	1		20
General Chemistry - Westborough Lab Associated sample(s): 05-06 QC Batch ID: WG1827452-6 QC Sample: L2351406-05 Client ID: EHS-SOD-C1						
Chromium, Hexavalent	ND	ND	mg/kg	NC		20

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01

Lab Number: L2351406
Report Date: 09/21/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2351406-01A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L2351406-01B	Vial water preserved	A	NA		2.2	Y	Absent	06-SEP-23 05:43	NYTCL-8260HLW(14)
L2351406-01C	Vial water preserved	A	NA		2.2	Y	Absent	06-SEP-23 05:43	NYTCL-8260HLW(14)
L2351406-01D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L2351406-02A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L2351406-02B	Vial water preserved	A	NA		2.2	Y	Absent	06-SEP-23 05:43	NYTCL-8260HLW(14)
L2351406-02C	Vial water preserved	A	NA		2.2	Y	Absent	06-SEP-23 05:43	NYTCL-8260HLW(14)
L2351406-02D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L2351406-03A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L2351406-03B	Vial water preserved	A	NA		2.2	Y	Absent	06-SEP-23 05:43	NYTCL-8260HLW(14)
L2351406-03C	Vial water preserved	A	NA		2.2	Y	Absent	06-SEP-23 05:43	NYTCL-8260HLW(14)
L2351406-03D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L2351406-04A	Vial MeOH preserved	A	NA		2.2	Y	Absent		NYTCL-8260HLW(14)
L2351406-04B	Vial water preserved	A	NA		2.2	Y	Absent	06-SEP-23 05:43	NYTCL-8260HLW(14)
L2351406-04C	Vial water preserved	A	NA		2.2	Y	Absent	06-SEP-23 05:43	NYTCL-8260HLW(14)
L2351406-04D	Plastic 2oz unpreserved for TS	A	NA		2.2	Y	Absent		TS(7)
L2351406-05A	Plastic 60ml unpreserved	A	NA		2.2	Y	Absent		TS(7)
L2351406-05B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),CU-TI(180),SE-TI(180),ZN-TI(180),PB-TI(180),MN-TI(180),HG-T(28),CD-TI(180)
L2351406-05C	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2351406-05D	Plastic 8oz unpreserved	A	NA		2.2	Y	Absent		HOLD-537(14),A2-NY-537-ISOTOPE(90)
L2351406-05E	Plastic 8oz unpreserved	A	NA		2.2	Y	Absent		HOLD-537(14),A2-NY-537-ISOTOPE(90)

*Values in parentheses indicate holding time in days

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01

Lab Number: L2351406
Report Date: 09/21/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2351406-05F	Glass 500ml/16oz unpreserved	A	NA		2.2	Y	Absent		TCN-9010(14),NYTCL-8270(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2351406-06A	Plastic 60ml unpreserved	A	NA		2.2	Y	Absent		TS(7)
L2351406-06B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		2.2	Y	Absent		BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),ZN-TI(180),PB-TI(180),SE-TI(180),CU-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L2351406-06C	Glass 120ml/4oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2351406-06D	Plastic 8oz unpreserved	A	NA		2.2	Y	Absent		HOLD-537(14),A2-NY-537-ISOTOPE(90)
L2351406-06E	Plastic 8oz unpreserved	A	NA		2.2	Y	Absent		HOLD-537(14),A2-NY-537-ISOTOPE(90)
L2351406-06F	Glass 500ml/16oz unpreserved	A	NA		2.2	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)

*Values in parentheses indicate holding time in days

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01
Lab Number: L2351406
Report Date: 09/21/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name: EHS CAPITAL IMPROVEMENTS-SOD
Project Number: 2021-01
Lab Number: L2351406
Report Date: 09/21/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

Project Name:	EHS CAPITAL IMPROVEMENTS-SOD	**Lab Number:**	L2351406
Project Number:	2021-01	**Report Date:**	09/21/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	EHS CAPITAL IMPROVEMENTS-SOD	**Lab Number:**	L2351406
Project Number:	2021-01	**Report Date:**	09/21/23

Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	EHS CAPITAL IMPROVEMENTS-SOD	**Lab Number:**	L2351406
Project Number:	2021-01	**Report Date:**	09/21/23

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	EHS CAPITAL IMPROVEMENTS-SOD	**Lab Number:**	L2351406
Project Number:	2021-01	**Report Date:**	09/21/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
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FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 9/6/23

ALPHA Job #: L2351406

Client Information
Client: Sterling Env. Eng.
Address: 24 Wade Rd
Latham, NY 12110
Phone:
Fax: 518-456-4900
Email:

Project Information
Project Name: EHS Capital Improvements - Sod
Project Location: Elmira, NY / Batavia, NY
Project # 2021-01
(Use Project name as Project #) ☐
Project Manager: M. Deyo / A. Millspaugh
ALPHAQuote #:

Turn-Around Time
Standard ☒ 10 days Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☒ EQuIS (4 File)
☐ Other

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☒ Other DER-10
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
andrew.millspaugh@sterlingenvironmental.com
amanda.castignetti@sterlingenvironmental.com
Please specify Metals or TAL.

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	DER-10 Total Metals, Total Hg, Cyanide	DER-10 Hex Chromium	DER-10 VOCs (8260)	DER-10 SVOCs (8270)	DER-10 Pests/Herbs (8081, 8151)	Total PCBs (8082)	Total Solids	PFAS/SPLP* (537.1 mod)	Sample Specific Comments	Total Bottle
51400 -01	EHS - Sod - S1	9/5/2023	0940	Soil	AMC			X				X			4
-02	EHS - Sod - S2		0950					X				X			4
-03	EHS - Sod - S3		1030					X				X			4
-04	EHS - Sod - S4		1040					X				X			4
-05 (AMC)	EHS - Sod - SC1		1015			X	X		X	X	X	X	X	*SPLP only if	6
-06 (AMC)	EHS - Sod - SC2		1055			X	X		X	X	X	X	X	exceedences of	6
														guidelines.	

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	A	V	A	A	A	P	P
Preservative	A	A	0/F	A	A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
	9/5/2023 1630	AAC	9/5/23 16:30
			9/6/23 0020

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)

Miranda Stelmach

From: McCartney, W Scott <w.scott.mccartney@wsp.com>
Sent: Friday, November 3, 2023 1:36 PM
To: Andrew Millspaugh; Zappia, Kaleigh M (DEC); Howe, Alexander; Zappia, Kaleigh M (DEC); david.pratt@dec.ny.gov; Bogardus, Sara (HEALTH); Bonsteel, Nicole; Whelan, Vincent; haustin; Granato, Donald; Fizzano, Thomas
Cc: Etter, Terry R.; Aron Krasnopoler; Kaitlin Ouverson; Amanda McNally; Lawrence Endicott; Kyle Cunningham; Cyr, Scott; Amanda McNally; Amanda Castignetti; Mike Dunn; Mike Fulkerson; Krueger, Kevin D.; Jen Huha; Miranda Stelmach
Subject: RE: NYSDEC #c808022 - ECSD Request to Import Warning Track Material

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe. If you have any suspicion, please confirm with the sender verbally that this email is authentic. If you suspect fraud, click "Phish Alert Report."

Andrew,

We have reviewed your request to import 300 cubic yards of crushed limestone (stone dust) generated from the Windham Quarry in Windham Township, PA and find it appropriate documentation to proceed, as long as the imported crushed limestone meets ECSD required specifications.

Thanks,

Scott

W. Scott McCartney, P.E.
Assistant Vice President

M+ 1 484-612-2070

From: Andrew Millspaugh <Andrew.Millspaugh@sterlingenvironmental.com>
Sent: Friday, November 3, 2023 10:33 AM
To: Zappia, Kaleigh M (DEC) <Kaleigh.Zappia@dec.ny.gov>; Howe, Alexander <alexander.howe@wsp.com>; McCartney, W Scott <w.scott.mccartney@wsp.com>; Zappia, Kaleigh M (DEC) <Kaleigh.Zappia@dec.ny.gov>; Pratt, David (DEC) <david.pratt@dec.ny.gov>; Bogardus, Sara (HEALTH) <Sara.Bogardus@health.ny.gov>; Bonsteel, Nicole <nicole.bonsteel@wsp.com>; Whelan, Vincent <vincent.whelan@wsp.com>; haustin@elmiracityschools.com; Granato, Donald <donald.granato@wsp.com>; Fizzano, Thomas <thomas.fizzano@wsp.com>
Cc: Etter, Terry R. <terry.etter@unisys.com>; akrasnopoler@geosyntec.com; Kaitlin Ouverson <KOuverson@Geosyntec.com>; Amanda McNally <AMcNally@Geosyntec.com>; Lawrence Endicott <larry.endicott@keller-na.com>; Kyle Cunningham <kyle.cunningham@reconservices.com>; Cyr, Scott <cyrs@hunt-eas.com>; Amanda McNally <AMcNally@Geosyntec.com>; Amanda Castignetti <Amanda.Castignetti@SterlingEnvironmental.com>; mdunn <mdunn@buildwelliver.com>; Mike Fulkerson <mfulkerson@buildwelliver.com>; Krueger, Kevin D. <Kevin.Krueger@unisys.com>; Jen Huha <JHuha@Geosyntec.com>; Miranda Stelmach <MStelmach@Geosyntec.com>
Subject: RE: NYSDEC #c808022 - ECSD Request to Import Warning Track Material

Kaleigh,

Please see the attached updated Import Request for the warning track material with the PFAS data that were received this morning.

Thanks,

Andrew M. Millspaugh, P.E.
Sterling Environmental Engineering, P.C.
Cell: (518) 573-4378
andrew.millspaugh@sterlingenvironmental.com
www.sterlingenvironmental.com

From: Andrew Millspaugh
Sent: Thursday, November 2, 2023 4:33 PM
To: kaleigh.zappia@dec.ny.gov; Howe, Alexander <alexander.howe@wsp.com>; McCartney, W Scott <w.scott.mccartney@wsp.com>; Zappia, Kaleigh M (DEC) <Kaleigh.Zappia@dec.ny.gov>; Pratt, David (DEC) <david.pratt@dec.ny.gov>; Bogardus, Sara (HEALTH) <Sara.Bogardus@health.ny.gov>; Bonsteel, Nicole <nicole.bonsteel@wsp.com>; Whelan, Vincent <vincent.whelan@wsp.com>; haustin@elmiracityschools.com; Granato, Donald <donald.granato@wsp.com>; Fizzano, Thomas <thomas.fizzano@wsp.com>
Cc: Etter, Terry R. <terry.etter@unisys.com>; akrasnopoler@geosyntec.com; Kaitlin Ouverson <KOuverson@Geosyntec.com>; Amanda McNally <AMcNally@Geosyntec.com>; Lawrence Endicott <larry.endicott@keller-na.com>; Kyle Cunningham <kyle.cunningham@reconservices.com>; Cyr, Scott <cyrs@hunt-eas.com>; Amanda McNally <AMcNally@Geosyntec.com>; Amanda Castignetti <Amanda.Castignetti@SterlingEnvironmental.com>; mdunn <mdunn@buildwelliver.com>; Mike Fulkerson <mfulkerson@buildwelliver.com>; Krueger, Kevin D. <Kevin.Krueger@unisys.com>; Jen Huha <JHuha@Geosyntec.com>; Miranda Stelmach <MStelmach@Geosyntec.com>
Subject: RE: NYSDEC #c808022 - ECSD Request to Import Warning Track Material

Kaleigh,

We still have not received the PFAS data for the warning track material; however, attached is a completed Import Request will all other parameters. Based on the type of material and the attached results, we are requesting an approval to import contingent on submitting the PFAS data when received. The contractor is ready to import he material as soon as approved.

Thanks,

Andrew M. Millspaugh, P.E.
Sterling Environmental Engineering, P.C.
Cell: (518) 573-4378
andrew.millspaugh@sterlingenvironmental.com
www.sterlingenvironmental.com

From: Andrew Millspaugh
Sent: Wednesday, November 1, 2023 9:05 AM
To: kaleigh.zappia@dec.ny.gov; Howe, Alexander <alexander.howe@wsp.com>; McCartney, W Scott <w.scott.mccartney@wsp.com>; Zappia, Kaleigh M (DEC) <Kaleigh.Zappia@dec.ny.gov>; Pratt, David (DEC) <david.pratt@dec.ny.gov>; Bogardus, Sara (HEALTH) <Sara.Bogardus@health.ny.gov>; Bonsteel, Nicole <nicole.bonsteel@wsp.com>; Whelan, Vincent <vincent.whelan@wsp.com>; haustin@elmiracityschools.com; Granato, Donald <donald.granato@wsp.com>; Fizzano, Thomas <thomas.fizzano@wsp.com>
Cc: Etter, Terry R. <terry.etter@unisys.com>; akrasnopoler@geosyntec.com; Kaitlin Ouverson

<KOuverson@Geosyntec.com>; Amanda McNally <AMcNally@Geosyntec.com>; Lawrence Endicott <larry.endicott@keller-na.com>; Kyle Cunningham <kyle.cunningham@reconservices.com>; Cyr, Scott <cyrs@hunt-eas.com>; Amanda McNally <AMcNally@Geosyntec.com>; Amanda Castignetti <Amanda.Castignetti@SterlingEnvironmental.com>; mdunn <mdunn@buildwelliver.com>; Mike Fulkerson <mfulkerson@buildwelliver.com>; Krueger, Kevin D. <Kevin.Krueger@unisys.com>; Jen Huha <JHuha@Geosyntec.com>; Miranda Stelmach <MStelmach@Geosyntec.com>
Subject: NYSDEC #c808022 - ECSD Request to Import Warning Track Material

Good morning Kaleigh,

The laboratory notified us yesterday that they are delayed completing the PFAS analysis on the warning track material due to equipment issues. All other parameters have been completed with no exceedances of restricted residential standards. The lab is projecting 11/2 for the PFAS data, and we will submit the request to import as soon as data are available. We would appreciate an expedited review if possible since the contractor is ready to import and place the material.

Thanks,

Andrew M. Millspaugh, P.E.
Sterling Environmental Engineering, P.C.
Cell: (518) 573-4378
andrew.millspaugh@sterlingenvironmental.com
www.sterlingenvironmental.com

From: Andrew Millspaugh
Sent: Monday, September 25, 2023 6:07 PM
To: kaleigh.zappia@dec.ny.gov; Howe, Alexander <alexander.howe@wsp.com>; McCartney, W Scott <w.scott.mccartney@wsp.com>; Zappia, Kaleigh M (DEC) <Kaleigh.Zappia@dec.ny.gov>; Pratt, David (DEC) <david.pratt@dec.ny.gov>; Bogardus, Sara (HEALTH) <Sara.Bogardus@health.ny.gov>; Bonsteel, Nicole <nicole.bonsteel@wsp.com>; Whelan, Vincent <vincent.whelan@wsp.com>; haustin@elmiracityschools.com; Granato, Donald <donald.granato@wsp.com>; Fizzano, Thomas <thomas.fizzano@wsp.com>
Cc: Etter, Terry R. <terry.etter@unisys.com>; akrasnopoler@geosyntec.com; Kaitlin Ouverson <KOuverson@Geosyntec.com>; Amanda McNally <AMcNally@Geosyntec.com>; Lawrence Endicott <larry.endicott@keller-na.com>; Kyle Cunningham <kyle.cunningham@reconservices.com>; Cyr, Scott <cyrs@hunt-eas.com>; Amanda McNally <AMcNally@Geosyntec.com>; Amanda Castignetti <Amanda.Castignetti@SterlingEnvironmental.com>; mdunn <mdunn@buildwelliver.com>; Mike Fulkerson <mfulkerson@buildwelliver.com>; Krueger, Kevin D. <Kevin.Krueger@unisys.com>; Jen Huha <JHuha@Geosyntec.com>; Miranda Stelmach <MStelmach@Geosyntec.com>
Subject: NYSDEC #c808022 - ECSD Request to Import Batavia Sod

Kaleigh,

On behalf of ECSD, please see the attached import request form for Batavia Sod to be used in the NAF.

Thanks,

Andrew M. Millspaugh, P.E.
Sterling Environmental Engineering, P.C.
Cell: (518) 573-4378
andrew.millspaugh@sterlingenvironmental.com
www.sterlingenvironmental.com

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e). Use of this form is not a substitute for reading the applicable Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Restricted Residential Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 200-300

If greater than 1000 cubic yards will be imported, enter volume to be imported: N/A

Crushed Limestone
(Stone Dust)

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? no

Does it contain less than 10%, by weight, material that would pass a size 80 sieve? no

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

Samples were collected from crushed limestone (stone dust) generated from a permitted mine, Windham Quarry, Permit ID 08120304, operated by Austins Excavation & Paving, Inc., in Windham Township, PA. In accordance with DER-10 Table 5.4(e)10, four (4) grab samples were collected for VOC analyses, and one (1) composite sample was collected and analyzed for inorganics, SVOCs, PCBs, pesticides, herbicides and PFAS Compounds.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

None of the analyzed compounds were detected at concentrations above the DER-10 Appendix 5 allowable levels for Restricted Residential Use. See the attached data table and analytical report for details.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Austins Excavation & Paving, Inc.

Location where fill was obtained:

Windham Quarry, Windham Township, PA

Identification of any state or local approvals as a fill source:

Mine ID #08120304

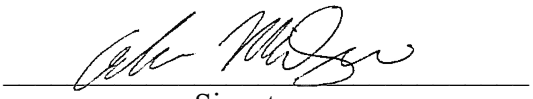
If no approvals are available, provide a brief history of the use of the property that is the fill source:

NA

Provide a list of supporting documentation included with this request:

Results Summary Table, Laboratory Analytical Report

The information provided on this form is accurate and complete.



Signature

11/3/2023

Date

Andrew M. Millspaugh, P.E.

Print Name

Sterling Environmental Engineering, P.C.

Firm

Table 1
Request to Import Crushed Limestone for NAF Warning Track
Former Sperry Remediation Site - North Portion
Elmira, NY

ANALYTE	NY-DER10-RRU	EHS-CLSD-1	EHS-CLSD-2	EHS-CLSD-3	EHS-CLSD-4	EHS-CLSD-C1
		10/16/2023	10/16/2023	10/16/2023	10/16/2023	10/16/2023
VOLATILE ORGANICS BY EPA 5035, mg/kg						
1,1,1-Trichloroethane	0.68	0.00036 U	0.00029 U	0.00019 U	0.00019 U	NA
1,1-Dichloroethane	0.27	0.00031 U	0.00025 U	0.00016 U	0.00016 U	NA
1,1-Dichloroethene	0.33	0.00051 U	0.00041 U	0.00027 U	0.00027 U	NA
1,2,4-Trimethylbenzene	3.6	0.00071 U	0.00057 U	0.00038 U	0.00038 U	NA
1,2-Dichlorobenzene	1.1	0.00031 U	0.00025 U	0.00016 U	0.00016 U	NA
1,2-Dichloroethane	0.02	0.00055 U	0.00044 U	0.00029 U	0.00029 U	NA
1,3,5-Trimethylbenzene	8.4	0.00041 U	0.00033 U	0.00022 U	0.00022 U	NA
1,3-Dichlorobenzene	2.4	0.00031 U	0.00025 U	0.00017 U	0.00017 U	NA
1,4-Dichlorobenzene	1.8	0.00036 U	0.00029 U	0.00019 U	0.00019 U	NA
1,4-Dioxane	0.1	0.075 U	0.06 U	0.039 U	0.04 U	NA
2-Butanone	0.12	0.0047 U	0.0038 U	0.0025 U	0.0025 U	NA
Acetone	0.05	0.01 U	0.0083 U	0.0054 U	0.0055 U	NA
Benzene	0.06	0.00035 U	0.00028 U	0.00019 U	0.00019 U	NA
Carbon tetrachloride	0.76	0.00049 U	0.0004 U	0.00026 U	0.00026 U	NA
Chlorobenzene	1.1	0.00027 U	0.00022 U	0.00014 U	0.00014 U	NA
Chloroform	0.37	0.0003 U	0.00024 U	0.00016 U	0.00016 U	NA
cis-1,2-Dichloroethene	0.25	0.00037 U	0.0003 U	0.0002 U	0.0002 U	NA
Ethylbenzene	1	0.0003 U	0.00024 U	0.00016 U	0.00016 U	NA
Methyl tert butyl ether	0.93	0.00043 U	0.00034 U	0.00023 U	0.00023 U	NA
Methylene chloride	0.05	0.0049 U	0.0039 U	0.0026 U	0.0026 U	NA
n-Butylbenzene	12	0.00036 U	0.00029 U	0.00019 U	0.00019 U	NA
n-Propylbenzene	3.9	0.00036 U	0.00029 U	0.00019 U	0.00022 J	NA
o-Xylene		0.00062 U	0.0005 U	0.00033 U	0.00033 U	NA
p/m-Xylene		0.0012 U	0.00096 U	0.00063 U	0.00064 U	NA
sec-Butylbenzene	11	0.00031 U	0.00025 U	0.00016 U	0.00017 U	NA
tert-Butylbenzene	5.9	0.00025 U	0.0002 U	0.00013 U	0.00013 U	NA
Tetrachloroethene	1.3	0.00042 U	0.00034 U	0.00022 U	0.00022 U	NA
Toluene	0.7	0.0012 U	0.00093 U	0.00061 U	0.00062 U	NA
trans-1,2-Dichloroethene	0.19	0.00029 U	0.00024 U	0.00015 U	0.00016 U	NA
Trichloroethene	0.47	0.00029 U	0.00024 U	0.00015 U	0.00016 U	NA
Vinyl chloride	0.02	0.00071 U	0.00058 U	0.00038 U	0.00038 U	NA
SEMIVOLATILE ORGANICS BY GC/MS, mg/kg						
1,4-Dioxane	0.1	NA	NA	NA	NA	0.0082
2-Methylphenol	0.33	NA	NA	NA	NA	0.028
3-Methylphenol/4-Methylphenol	0.33	NA	NA	NA	NA	0.028
Acenaphthene	98	NA	NA	NA	NA	0.018
Acenaphthylene	100	NA	NA	NA	NA	0.027
Anthracene	100	NA	NA	NA	NA	0.035
Benzo(a)anthracene	1	NA	NA	NA	NA	0.02 J
Benzo(a)pyrene	1	NA	NA	NA	NA	0.043
Benzo(b)fluoranthene	1	NA	NA	NA	NA	0.03
Benzo(ghi)perylene	100	NA	NA	NA	NA	0.021
Benzo(k)fluoranthene	1.7	NA	NA	NA	NA	0.028
Chrysene	1	NA	NA	NA	NA	0.018
Dibenzo(a,h)anthracene	0.33	NA	NA	NA	NA	0.02
Dibenzofuran	59	NA	NA	NA	NA	0.017
Fluoranthene	100	NA	NA	NA	NA	0.026 J
Fluorene	100	NA	NA	NA	NA	0.017
Hexachlorobenzene	1.2	NA	NA	NA	NA	0.02
Indeno(1,2,3-cd)pyrene	0.5	NA	NA	NA	NA	0.025
Naphthalene	12	NA	NA	NA	NA	0.022
Pentachlorophenol	0.8	NA	NA	NA	NA	0.039
Phenanthrene	100	NA	NA	NA	NA	0.022
Phenol	0.33	NA	NA	NA	NA	0.027
Pyrene	100	NA	NA	NA	NA	0.024 J

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Table 1
Request to Import Crushed Limestone for NAF Warning Track
Former Sperry Remediation Site - North Portion
Elmira, NY

ANALYTE	NY-DER10-RRU	EHS-CLSD-1	EHS-CLSD-2	EHS-CLSD-3	EHS-CLSD-4	EHS-CLSD-C1
		10/16/2023	10/16/2023	10/16/2023	10/16/2023	10/16/2023
CHLORINATED HERBICIDES BY GC, mg/kg						
2,4,5-TP (Silvex)	3.8	NA	NA	NA	NA	0.0046 U
ORGANOCHLORINE PESTICIDES BY GC, mg/kg						
4,4'-DDD	13	NA	NA	NA	NA	0.0006 U
4,4'-DDE	8.9	NA	NA	NA	NA	0.00039 U
4,4'-DDT	7.9	NA	NA	NA	NA	0.00134 U
Aldrin	0.097	NA	NA	NA	NA	0.00059 U
Alpha-BHC	0.02	NA	NA	NA	NA	0.0002 U
Beta-BHC	0.09	NA	NA	NA	NA	0.00063 U
cis-Chlordane	2.9	NA	NA	NA	NA	0.00058 U
Delta-BHC	0.25	NA	NA	NA	NA	0.00033 U
Dieldrin	0.1	NA	NA	NA	NA	0.00052 U
Endosulfan I	24	NA	NA	NA	NA	0.0004 U
Endosulfan II	24	NA	NA	NA	NA	0.00056 U
Endosulfan sulfate	24	NA	NA	NA	NA	0.00033 U
Endrin	0.06	NA	NA	NA	NA	0.00029 U
Heptachlor	0.38	NA	NA	NA	NA	0.00038 U
Lindane	0.1	NA	NA	NA	NA	0.00031 U
POLYCHLORINATED BIPHENYLS BY GC, mg/kg						
Aroclor 1016	1	NA	NA	NA	NA	0.00446 U
Aroclor 1221	1	NA	NA	NA	NA	0.00503 U
Aroclor 1232	1	NA	NA	NA	NA	0.0106 U
Aroclor 1242	1	NA	NA	NA	NA	0.00677 U
Aroclor 1248	1	NA	NA	NA	NA	0.00753 U
Aroclor 1254	1	NA	NA	NA	NA	0.00549 U
Aroclor 1260	1	NA	NA	NA	NA	0.00928 U
Aroclor 1262	1	NA	NA	NA	NA	0.00637 U
Aroclor 1268	1	NA	NA	NA	NA	0.0052 U
PCBs, Total	1	NA	NA	NA	NA	0.00446 U
GENERAL CHEMISTRY, mg/kg						
Chromium, Trivalent	180	NA	NA	NA	NA	11.8 J
Chromium, Hexavalent	19	NA	NA	NA	NA	0.192 J
Cyanide, Total	27	NA	NA	NA	NA	0.21 U
Solids, Total, %	---	94.4	93.6	96	93.5	93.8
TOTAL METALS, mg/kg						
Arsenic, Total	16	NA	NA	NA	NA	8.99
Barium, Total	400	NA	NA	NA	NA	13.8
Beryllium, Total	47	NA	NA	NA	NA	0.382
Cadmium, Total	4.3	NA	NA	NA	NA	0.039 U
Chromium, Total	---	NA	NA	NA	NA	12
Copper, Total	270	NA	NA	NA	NA	26.6
Lead, Total	400	NA	NA	NA	NA	12.6
Manganese, Total	2000	NA	NA	NA	NA	452
Mercury, Total	0.73	NA	NA	NA	NA	0.15
Nickel, Total	130	NA	NA	NA	NA	19.4
Selenium, Total	4	NA	NA	NA	NA	0.104 U
Silver, Total	8.3	NA	NA	NA	NA	0.422
Zinc, Total	2480	NA	NA	NA	NA	46.7

NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10, May 3, 2010.
---: No applicable standard.
Bold indicates an exceedance of NY-DER10-UU standards.
U: Not Detected. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J: Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
NA: Not analyzed.

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Table 2
Request to Import Crushed Limestone for NAF Warning Track - PFAS Data
Former Sperry Remediation Site - North Portion
Elmira, NY

ANALYTE	NY-DER10-RR	EHS-CLSD-C1 10/16/2023
PERFLUORINATED ALKYL ACIDS BY ISOTOPE DILUTION, mg/kg		
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	---	0.000279 U
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	---	0.000174 U
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	---	0.000082 U
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	---	0.000196 U
Perfluorobutanesulfonic Acid (PFBS)	---	0.000038 U
Perfluorobutanoic Acid (PFBA)	---	0.000022 U
Perfluorodecanesulfonic Acid (PFDS)	---	0.000149 U
Perfluorodecanoic Acid (PFDA)	---	0.000065 U
Perfluorododecanoic Acid (PFDoA)	---	0.000068 U
Perfluoroheptanesulfonic Acid (PFHpS)	---	0.000132 U
Perfluoroheptanoic Acid (PFHpA)	---	0.000044 U
Perfluorohexanesulfonic Acid (PFHxS)	---	0.000059 U
Perfluorohexanoic Acid (PFHxA)	---	0.000051 U
Perfluorononanoic Acid (PFNA)	---	0.000073 U
Perfluorooctanesulfonamide (FOSA)	---	0.000095 U
Perfluorooctanesulfonic Acid (PFOS)	0.044	0.000126 U
Perfluorooctanoic Acid (PFOA)	0.033	0.000041 U
Perfluoropentanoic Acid (PFPeA)	---	0.000045 U
Perfluorotetradecanoic Acid (PFTA)	---	0.000052 U
Perfluorotridecanoic Acid (PFTrDA)	---	0.000199 U
Perfluoroundecanoic Acid (PFUnA)	---	0.000046 U
PFOA/PFOS, Total	---	0.000041 U

NY-DER10-RRU: New York DER-10 Restricted Residential Use Allowable Constituent Levels for Imported Fill & Soil Criteria per DER-10, May 3, 2010.

PFOA and PFOS standards from NYSDEC Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances under NYSDEC Part 375 Remedial Programs, November 2022

---: No applicable standard.

U: Not Detected. The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

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ANALYTICAL REPORT

Lab Number:	L2361331
Client:	Sterling Environmental Engineering 24 Wade Road Latham, NY 12110
ATTN:	Andrew Millspaugh
Phone:	(518) 456-4900
Project Name:	EHS CAPITAL IMPROVEMENTS
Project Number:	2021-01
Report Date:	11/02/23

The original project report/data package is held by Alpha Analytical. This report/data package is paginated and should be reproduced only in its entirety. Alpha Analytical holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: MA (M-MA086), NH NELAP (2064), CT (PH-0826), IL (200077), IN (C-MA-03), KY (KY98045), ME (MA00086), MD (348), NJ (MA935), NY (11148), NC (25700/666), OH (CL108), OR (MA-1316), PA (68-03671), RI (LAO00065), TX (T104704476), VT (VT-0935), VA (460195), USDA (Permit #525-23-122-91930).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2361331
Report Date: 11/02/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2361331-01	EHS-CLSD-1	SOIL	ELMIRA, NY	10/16/23 11:45	10/16/23
L2361331-02	EHS-CLSD-2	SOIL	ELMIRA, NY	10/16/23 11:55	10/16/23
L2361331-03	EHS-CLSD-3	SOIL	ELMIRA, NY	10/16/23 12:05	10/16/23
L2361331-04	EHS-CLSD-4	SOIL	ELMIRA, NY	10/16/23 12:15	10/16/23
L2361331-05	EHS-CLSD-C1	SOIL	ELMIRA, NY	10/16/23 12:25	10/16/23

Project Name:	EHS CAPITAL IMPROVEMENTS	**Lab Number:**	L2361331
Project Number:	2021-01	**Report Date:**	11/02/23

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Alpha Project Manager and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name:	EHS CAPITAL IMPROVEMENTS	**Lab Number:**	L2361331
Project Number:	2021-01	**Report Date:**	11/02/23

Case Narrative (continued)

Report Submission

November 02, 2023: This final report includes the results of all requested analyses.

November 02, 2023: This is a preliminary report.

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Perfluorinated Alkyl Acids by Isotope Dilution

The WG1843343-2 LCS recoveries, associated with L2361331-05, are above the acceptance criteria for perfluorododecane sulfonic acid (pfdods) (134%) and nonafluoro-3,6-dioxaheptanoic acid (nfdha) (183%); however, the associated sample is non-detect to the RL for this target analyte. The results of the original analysis are reported.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Cristin Walker

Title: Technical Director/Representative Date: 11/02/23

ORGANICS

VOLATILES

Project Name: EHS CAPITAL IMPROVEMENTS **Lab Number:** L2361331

Project Number: 2021-01 **Report Date:** 11/02/23

SAMPLE RESULTS

Lab ID: L2361331-01
Client ID: EHS-CLSD-1
Sample Location: ELMIRA, NY

Date Collected: 10/16/23 11:45
Date Received: 10/16/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/26/23 16:05
Analyst: SLS
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	11	4.9	1
1,1-Dichloroethane	ND		ug/kg	2.1	0.31	1
Chloroform	ND		ug/kg	3.2	0.30	1
Carbon tetrachloride	ND		ug/kg	2.1	0.49	1
Tetrachloroethene	ND		ug/kg	1.1	0.42	1
Chlorobenzene	ND		ug/kg	1.1	0.27	1
1,2-Dichloroethane	ND		ug/kg	2.1	0.55	1
1,1,1-Trichloroethane	ND		ug/kg	1.1	0.36	1
Benzene	ND		ug/kg	1.1	0.35	1
Toluene	ND		ug/kg	2.1	1.2	1
Ethylbenzene	ND		ug/kg	2.1	0.30	1
Vinyl chloride	ND		ug/kg	2.1	0.71	1
1,1-Dichloroethene	ND		ug/kg	2.1	0.51	1
trans-1,2-Dichloroethene	ND		ug/kg	3.2	0.29	1
Trichloroethene	ND		ug/kg	1.1	0.29	1
1,2-Dichlorobenzene	ND		ug/kg	4.2	0.31	1
1,3-Dichlorobenzene	ND		ug/kg	4.2	0.31	1
1,4-Dichlorobenzene	ND		ug/kg	4.2	0.36	1
Methyl tert butyl ether	ND		ug/kg	4.2	0.43	1
p/m-Xylene	ND		ug/kg	4.2	1.2	1
o-Xylene	ND		ug/kg	2.1	0.62	1
cis-1,2-Dichloroethene	ND		ug/kg	2.1	0.37	1
Acetone	ND		ug/kg	21	10.	1
2-Butanone	ND		ug/kg	21	4.7	1
n-Butylbenzene	ND		ug/kg	2.1	0.36	1
sec-Butylbenzene	ND		ug/kg	2.1	0.31	1
tert-Butylbenzene	ND		ug/kg	4.2	0.25	1
n-Propylbenzene	ND		ug/kg	2.1	0.36	1

Project Name: EHS CAPITAL IMPROVEMENTS **Lab Number:** L2361331

Project Number: 2021-01 **Report Date:** 11/02/23

SAMPLE RESULTS

Lab ID: L2361331-01 Date Collected: 10/16/23 11:45

Client ID: EHS-CLSD-1 Date Received: 10/16/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	4.2	0.41	1
1,2,4-Trimethylbenzene	ND		ug/kg	4.2	0.71	1
1,4-Dioxane	ND		ug/kg	170	75.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	108		70-130

Project Name: EHS CAPITAL IMPROVEMENTS **Lab Number:** L2361331

Project Number: 2021-01 **Report Date:** 11/02/23

SAMPLE RESULTS

Lab ID: L2361331-02
Client ID: EHS-CLSD-2
Sample Location: ELMIRA, NY

Date Collected: 10/16/23 11:55
Date Received: 10/16/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/26/23 16:28
Analyst: SLS
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	8.6	3.9	1
1,1-Dichloroethane	ND		ug/kg	1.7	0.25	1
Chloroform	ND		ug/kg	2.6	0.24	1
Carbon tetrachloride	ND		ug/kg	1.7	0.40	1
Tetrachloroethene	ND		ug/kg	0.86	0.34	1
Chlorobenzene	ND		ug/kg	0.86	0.22	1
1,2-Dichloroethane	ND		ug/kg	1.7	0.44	1
1,1,1-Trichloroethane	ND		ug/kg	0.86	0.29	1
Benzene	ND		ug/kg	0.86	0.28	1
Toluene	ND		ug/kg	1.7	0.93	1
Ethylbenzene	ND		ug/kg	1.7	0.24	1
Vinyl chloride	ND		ug/kg	1.7	0.58	1
1,1-Dichloroethene	ND		ug/kg	1.7	0.41	1
trans-1,2-Dichloroethene	ND		ug/kg	2.6	0.24	1
Trichloroethene	ND		ug/kg	0.86	0.24	1
1,2-Dichlorobenzene	ND		ug/kg	3.4	0.25	1
1,3-Dichlorobenzene	ND		ug/kg	3.4	0.25	1
1,4-Dichlorobenzene	ND		ug/kg	3.4	0.29	1
Methyl tert butyl ether	ND		ug/kg	3.4	0.34	1
p/m-Xylene	ND		ug/kg	3.4	0.96	1
o-Xylene	ND		ug/kg	1.7	0.50	1
cis-1,2-Dichloroethene	ND		ug/kg	1.7	0.30	1
Acetone	ND		ug/kg	17	8.3	1
2-Butanone	ND		ug/kg	17	3.8	1
n-Butylbenzene	ND		ug/kg	1.7	0.29	1
sec-Butylbenzene	ND		ug/kg	1.7	0.25	1
tert-Butylbenzene	ND		ug/kg	3.4	0.20	1
n-Propylbenzene	ND		ug/kg	1.7	0.29	1

Project Name: EHS CAPITAL IMPROVEMENTS **Lab Number:** L2361331

Project Number: 2021-01 **Report Date:** 11/02/23

SAMPLE RESULTS

Lab ID: L2361331-02 Date Collected: 10/16/23 11:55

Client ID: EHS-CLSD-2 Date Received: 10/16/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	3.4	0.33	1
1,2,4-Trimethylbenzene	ND		ug/kg	3.4	0.57	1
1,4-Dioxane	ND		ug/kg	140	60.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	108		70-130
Toluene-d8	103		70-130
4-Bromofluorobenzene	112		70-130
Dibromofluoromethane	108		70-130

Project Name: EHS CAPITAL IMPROVEMENTS **Lab Number:** L2361331

Project Number: 2021-01 **Report Date:** 11/02/23

SAMPLE RESULTS

Lab ID: L2361331-03
Client ID: EHS-CLSD-3
Sample Location: ELMIRA, NY

Date Collected: 10/16/23 12:05
Date Received: 10/16/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/26/23 16:51
Analyst: SLS
Percent Solids: 96%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.6	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
Tetrachloroethene	ND		ug/kg	0.56	0.22	1
Chlorobenzene	ND		ug/kg	0.56	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.56	0.19	1
Benzene	ND		ug/kg	0.56	0.19	1
Toluene	ND		ug/kg	1.1	0.61	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.15	1
Trichloroethene	ND		ug/kg	0.56	0.15	1
1,2-Dichlorobenzene	ND		ug/kg	2.2	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.2	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.2	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.2	0.23	1
p/m-Xylene	ND		ug/kg	2.2	0.63	1
o-Xylene	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
Acetone	ND		ug/kg	11	5.4	1
2-Butanone	ND		ug/kg	11	2.5	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.16	1
tert-Butylbenzene	ND		ug/kg	2.2	0.13	1
n-Propylbenzene	ND		ug/kg	1.1	0.19	1

Project Name: EHS CAPITAL IMPROVEMENTS **Lab Number:** L2361331

Project Number: 2021-01 **Report Date:** 11/02/23

SAMPLE RESULTS

Lab ID: L2361331-03 Date Collected: 10/16/23 12:05

Client ID: EHS-CLSD-3 Date Received: 10/16/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.2	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.2	0.38	1
1,4-Dioxane	ND		ug/kg	90	39.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	106		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	114		70-130
Dibromofluoromethane	107		70-130

Project Name: EHS CAPITAL IMPROVEMENTS **Lab Number:** L2361331

Project Number: 2021-01 **Report Date:** 11/02/23

SAMPLE RESULTS

Lab ID: L2361331-04
Client ID: EHS-CLSD-4
Sample Location: ELMIRA, NY

Date Collected: 10/16/23 12:15
Date Received: 10/16/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8260D
Analytical Date: 10/28/23 12:16
Analyst: JIC
Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
Methylene chloride	ND		ug/kg	5.7	2.6	1
1,1-Dichloroethane	ND		ug/kg	1.1	0.16	1
Chloroform	ND		ug/kg	1.7	0.16	1
Carbon tetrachloride	ND		ug/kg	1.1	0.26	1
Tetrachloroethene	ND		ug/kg	0.57	0.22	1
Chlorobenzene	ND		ug/kg	0.57	0.14	1
1,2-Dichloroethane	ND		ug/kg	1.1	0.29	1
1,1,1-Trichloroethane	ND		ug/kg	0.57	0.19	1
Benzene	ND		ug/kg	0.57	0.19	1
Toluene	ND		ug/kg	1.1	0.62	1
Ethylbenzene	ND		ug/kg	1.1	0.16	1
Vinyl chloride	ND		ug/kg	1.1	0.38	1
1,1-Dichloroethene	ND		ug/kg	1.1	0.27	1
trans-1,2-Dichloroethene	ND		ug/kg	1.7	0.16	1
Trichloroethene	ND		ug/kg	0.57	0.16	1
1,2-Dichlorobenzene	ND		ug/kg	2.3	0.16	1
1,3-Dichlorobenzene	ND		ug/kg	2.3	0.17	1
1,4-Dichlorobenzene	ND		ug/kg	2.3	0.19	1
Methyl tert butyl ether	ND		ug/kg	2.3	0.23	1
p/m-Xylene	ND		ug/kg	2.3	0.64	1
o-Xylene	ND		ug/kg	1.1	0.33	1
cis-1,2-Dichloroethene	ND		ug/kg	1.1	0.20	1
Acetone	ND		ug/kg	11	5.5	1
2-Butanone	ND		ug/kg	11	2.5	1
n-Butylbenzene	ND		ug/kg	1.1	0.19	1
sec-Butylbenzene	ND		ug/kg	1.1	0.17	1
tert-Butylbenzene	ND		ug/kg	2.3	0.13	1
n-Propylbenzene	0.22	J	ug/kg	1.1	0.19	1

Project Name: EHS CAPITAL IMPROVEMENTS **Lab Number:** L2361331

Project Number: 2021-01 **Report Date:** 11/02/23

SAMPLE RESULTS

Lab ID: L2361331-04 Date Collected: 10/16/23 12:15

Client ID: EHS-CLSD-4 Date Received: 10/16/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by EPA 5035 Low - Westborough Lab						
1,3,5-Trimethylbenzene	ND		ug/kg	2.3	0.22	1
1,2,4-Trimethylbenzene	ND		ug/kg	2.3	0.38	1
1,4-Dioxane	ND		ug/kg	91	40.	1

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	89		70-130
Toluene-d8	102		70-130
4-Bromofluorobenzene	110		70-130
Dibromofluoromethane	98		70-130

Project Name: EHS CAPITAL IMPROVEMENTS **Lab Number:** L2361331

Project Number: 2021-01 **Report Date:** 11/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/26/23 09:25
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1844669-5					
Methylene chloride	3.4	J	ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Vinyl chloride	ND		ug/kg	1.0	0.34
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Acetone	ND		ug/kg	10	4.8
2-Butanone	ND		ug/kg	10	2.2
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19

Project Name: EHS CAPITAL IMPROVEMENTS **Lab Number:** L2361331

Project Number: 2021-01 **Report Date:** 11/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/26/23 09:25
Analyst: AJK

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 01-03 Batch: WG1844669-5					
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	98		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	96		70-130
Dibromofluoromethane	103		70-130

Project Name: EHS CAPITAL IMPROVEMENTS **Lab Number:** L2361331

Project Number: 2021-01 **Report Date:** 11/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/28/23 10:09
Analyst: SLS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04 Batch: WG1845819-5					
Methylene chloride	ND		ug/kg	5.0	2.3
1,1-Dichloroethane	ND		ug/kg	1.0	0.14
Chloroform	ND		ug/kg	1.5	0.14
Carbon tetrachloride	ND		ug/kg	1.0	0.23
Tetrachloroethene	ND		ug/kg	0.50	0.20
Chlorobenzene	ND		ug/kg	0.50	0.13
1,2-Dichloroethane	ND		ug/kg	1.0	0.26
1,1,1-Trichloroethane	ND		ug/kg	0.50	0.17
Benzene	ND		ug/kg	0.50	0.17
Toluene	ND		ug/kg	1.0	0.54
Ethylbenzene	ND		ug/kg	1.0	0.14
Vinyl chloride	ND		ug/kg	1.0	0.34
1,1-Dichloroethene	ND		ug/kg	1.0	0.24
trans-1,2-Dichloroethene	ND		ug/kg	1.5	0.14
Trichloroethene	ND		ug/kg	0.50	0.14
1,2-Dichlorobenzene	ND		ug/kg	2.0	0.14
1,3-Dichlorobenzene	ND		ug/kg	2.0	0.15
1,4-Dichlorobenzene	ND		ug/kg	2.0	0.17
Methyl tert butyl ether	ND		ug/kg	2.0	0.20
p/m-Xylene	ND		ug/kg	2.0	0.56
o-Xylene	ND		ug/kg	1.0	0.29
cis-1,2-Dichloroethene	ND		ug/kg	1.0	0.18
Acetone	ND		ug/kg	10	4.8
2-Butanone	ND		ug/kg	10	2.2
n-Butylbenzene	ND		ug/kg	1.0	0.17
sec-Butylbenzene	ND		ug/kg	1.0	0.15
tert-Butylbenzene	ND		ug/kg	2.0	0.12
n-Propylbenzene	ND		ug/kg	1.0	0.17
1,3,5-Trimethylbenzene	ND		ug/kg	2.0	0.19

Project Name: EHS CAPITAL IMPROVEMENTS **Lab Number:** L2361331

Project Number: 2021-01 **Report Date:** 11/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8260D
Analytical Date: 10/28/23 10:09
Analyst: SLS

Parameter	Result	Qualifier	Units	RL	MDL
Volatile Organics by EPA 5035 Low - Westborough Lab for sample(s): 04 Batch: WG1845819-5					
1,2,4-Trimethylbenzene	ND		ug/kg	2.0	0.33
1,4-Dioxane	ND		ug/kg	80	35.

Surrogate	%Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	93		70-130
Toluene-d8	98		70-130
4-Bromofluorobenzene	100		70-130
Dibromofluoromethane	97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2361331
Report Date: 11/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1844669-3 WG1844669-4								
Methylene chloride	90		88		70-130	2		30
1,1-Dichloroethane	91		88		70-130	3		30
Chloroform	91		89		70-130	2		30
Carbon tetrachloride	99		96		70-130	3		30
Tetrachloroethene	100		96		70-130	4		30
Chlorobenzene	91		90		70-130	1		30
1,2-Dichloroethane	84		84		70-130	0		30
1,1,1-Trichloroethane	100		94		70-130	6		30
Benzene	93		89		70-130	4		30
Toluene	91		88		70-130	3		30
Ethylbenzene	94		92		70-130	2		30
Vinyl chloride	92		87		67-130	6		30
1,1-Dichloroethene	97		90		65-135	7		30
trans-1,2-Dichloroethene	98		92		70-130	6		30
Trichloroethene	97		93		70-130	4		30
1,2-Dichlorobenzene	86		87		70-130	1		30
1,3-Dichlorobenzene	88		88		70-130	0		30
1,4-Dichlorobenzene	87		87		70-130	0		30
Methyl tert butyl ether	85		86		66-130	1		30
p/m-Xylene	97		94		70-130	3		30
o-Xylene	96		93		70-130	3		30
cis-1,2-Dichloroethene	91		89		70-130	2		30
Acetone	72		71		54-140	1		30

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2361331

Report Date: 11/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 01-03 Batch: WG1844669-3 WG1844669-4								
2-Butanone	**67**	Q	**68**	Q	70-130	1		30
n-Butylbenzene	95		92		70-130	3		30
sec-Butylbenzene	94		91		70-130	3		30
tert-Butylbenzene	93		89		70-130	4		30
n-Propylbenzene	91		89		70-130	2		30
1,3,5-Trimethylbenzene	92		90		70-130	2		30
1,2,4-Trimethylbenzene	93		91		70-130	2		30
1,4-Dioxane	87		88		65-136	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	90		91		70-130
Toluene-d8	98		100		70-130
4-Bromofluorobenzene	95		96		70-130
Dibromofluoromethane	97		97		70-130

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2361331
Report Date: 11/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 Batch: WG1845819-3 WG1845819-4								
Methylene chloride	91		89		70-130	2		30
1,1-Dichloroethane	93		91		70-130	2		30
Chloroform	94		93		70-130	1		30
Carbon tetrachloride	92		90		70-130	2		30
Tetrachloroethene	96		93		70-130	3		30
Chlorobenzene	93		92		70-130	1		30
1,2-Dichloroethane	91		91		70-130	0		30
1,1,1-Trichloroethane	95		93		70-130	2		30
Benzene	93		92		70-130	1		30
Toluene	88		86		70-130	2		30
Ethylbenzene	90		89		70-130	1		30
Vinyl chloride	91		88		67-130	3		30
1,1-Dichloroethene	92		88		65-135	4		30
trans-1,2-Dichloroethene	92		90		70-130	2		30
Trichloroethene	94		93		70-130	1		30
1,2-Dichlorobenzene	93		91		70-130	2		30
1,3-Dichlorobenzene	94		92		70-130	2		30
1,4-Dichlorobenzene	94		91		70-130	3		30
Methyl tert butyl ether	90		90		66-130	0		30
p/m-Xylene	94		91		70-130	3		30
o-Xylene	93		92		70-130	1		30
cis-1,2-Dichloroethene	92		92		70-130	0		30
Acetone	78		76		54-140	3		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2361331
Report Date: 11/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics by EPA 5035 Low - Westborough Lab Associated sample(s): 04 Batch: WG1845819-3 WG1845819-4								
2-Butanone	89		80		70-130	11		30
n-Butylbenzene	93		89		70-130	4		30
sec-Butylbenzene	92		88		70-130	4		30
tert-Butylbenzene	92		88		70-130	4		30
n-Propylbenzene	91		88		70-130	3		30
1,3,5-Trimethylbenzene	92		89		70-130	3		30
1,2,4-Trimethylbenzene	93		90		70-130	3		30
1,4-Dioxane	85		84		65-136	1		30

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
1,2-Dichloroethane-d4	93		95		70-130
Toluene-d8	99		98		70-130
4-Bromofluorobenzene	99		98		70-130
Dibromofluoromethane	102		102		70-130

SEMIVOLATILES

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2361331
Report Date: 11/02/23

SAMPLE RESULTS

Lab ID: L2361331-05
Client ID: EHS-CLSD-C1
Sample Location: ELMIRA, NY

Date Collected: 10/16/23 12:25
Date Received: 10/16/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8270E
Analytical Date: 10/20/23 20:17
Analyst: EJL
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 10/18/23 14:27

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Semivolatile Organics by GC/MS - Westborough Lab						
Acenaphthene	ND		ug/kg	140	18.	1
Hexachlorobenzene	ND		ug/kg	110	20.	1
Fluoranthene	26	J	ug/kg	110	20.	1
Naphthalene	ND		ug/kg	180	22.	1
Benzo(a)anthracene	20	J	ug/kg	110	20.	1
Benzo(a)pyrene	ND		ug/kg	140	43.	1
Benzo(b)fluoranthene	ND		ug/kg	110	30.	1
Benzo(k)fluoranthene	ND		ug/kg	110	28.	1
Chrysene	ND		ug/kg	110	18.	1
Acenaphthylene	ND		ug/kg	140	27.	1
Anthracene	ND		ug/kg	110	35.	1
Benzo(ghi)perylene	ND		ug/kg	140	21.	1
Fluorene	ND		ug/kg	180	17.	1
Phenanthrene	ND		ug/kg	110	22.	1
Dibenzo(a,h)anthracene	ND		ug/kg	110	20.	1
Indeno(1,2,3-cd)pyrene	ND		ug/kg	140	25.	1
Pyrene	24	J	ug/kg	110	18.	1
Dibenzofuran	ND		ug/kg	180	17.	1
Pentachlorophenol	ND		ug/kg	140	39.	1
Phenol	ND		ug/kg	180	27.	1
2-Methylphenol	ND		ug/kg	180	28.	1
3-Methylphenol/4-Methylphenol	ND		ug/kg	260	28.	1
1,4-Dioxane	ND		ug/kg	27	8.2	1

Project Name: EHS CAPITAL IMPROVEMENTS **Lab Number:** L2361331

Project Number: 2021-01 **Report Date:** 11/02/23

SAMPLE RESULTS

Lab ID: L2361331-05 Date Collected: 10/16/23 12:25

Client ID: EHS-CLSD-C1 Date Received: 10/16/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Semivolatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	69		25-120
Phenol-d6	68		10-120
Nitrobenzene-d5	59		23-120
2-Fluorobiphenyl	65		30-120
2,4,6-Tribromophenol	68		10-136
4-Terphenyl-d14	59		18-120

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2361331
Report Date: 11/02/23

SAMPLE RESULTS

Lab ID: L2361331-05
Client ID: EHS-CLSD-C1
Sample Location: ELMIRA, NY

Date Collected: 10/16/23 12:25
Date Received: 10/16/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/02/23 14:48
Analyst: JW
Percent Solids: 94%

Extraction Method: ALPHA 23528
Extraction Date: 10/24/23 01:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab						
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.486	0.022	1
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.486	0.045	1
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.243	0.038	1
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.486	0.051	1
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.243	0.044	1
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.243	0.059	1
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.243	0.041	1
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.486	0.174	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.486	0.132	1
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.243	0.073	1
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.243	0.126	1
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.243	0.065	1
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.486	0.279	1
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.486	0.196	1
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.486	0.046	1
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.486	0.149	1
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.486	0.095	1
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.486	0.082	1
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.486	0.068	1
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.486	0.199	1
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.486	0.052	1
PFOA/PFOS, Total	ND		ng/g	0.243	0.041	1

Project Name: EHS CAPITAL IMPROVEMENTS **Lab Number:** L2361331

Project Number: 2021-01 **Report Date:** 11/02/23

SAMPLE RESULTS

Lab ID: L2361331-05 Date Collected: 10/16/23 12:25

Client ID: EHS-CLSD-C1 Date Received: 10/16/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab

Surrogate (Extracted Internal Standard)	% Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	86		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	92		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	87		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	95		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	86		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	93		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	66		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	89		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	92		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	68		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	46		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	102		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	71		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	51		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	93		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	103		24-159

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2361331
Report Date: 11/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/19/23 16:58
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 10/18/23 14:27

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1841363-1					
Acenaphthene	ND		ug/kg	130	17.
Hexachlorobenzene	ND		ug/kg	98	18.
Fluoranthene	ND		ug/kg	98	19.
Naphthalene	ND		ug/kg	160	20.
Benzo(a)anthracene	ND		ug/kg	98	18.
Benzo(a)pyrene	ND		ug/kg	130	40.
Benzo(b)fluoranthene	ND		ug/kg	98	28.
Benzo(k)fluoranthene	ND		ug/kg	98	26.
Chrysene	ND		ug/kg	98	17.
Acenaphthylene	ND		ug/kg	130	25.
Anthracene	ND		ug/kg	98	32.
Benzo(ghi)perylene	ND		ug/kg	130	19.
Fluorene	ND		ug/kg	160	16.
Phenanthrene	ND		ug/kg	98	20.
Dibenzo(a,h)anthracene	ND		ug/kg	98	19.
Indeno(1,2,3-cd)pyrene	ND		ug/kg	130	23.
Pyrene	ND		ug/kg	98	16.
Dibenzofuran	ND		ug/kg	160	15.
Pentachlorophenol	ND		ug/kg	130	36.
Phenol	ND		ug/kg	160	25.
2-Methylphenol	ND		ug/kg	160	25.
3-Methylphenol/4-Methylphenol	ND		ug/kg	240	26.
1,4-Dioxane	ND		ug/kg	24	7.5

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2361331
Report Date: 11/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8270E
Analytical Date: 10/19/23 16:58
Analyst: MG

Extraction Method: EPA 3546
Extraction Date: 10/18/23 14:27

Parameter	Result	Qualifier	Units	RL	MDL
Semivolatile Organics by GC/MS - Westborough Lab for sample(s): 05 Batch: WG1841363-1					

Surrogate	%Recovery	Qualifier	Acceptance Criteria
2-Fluorophenol	81		25-120
Phenol-d6	82		10-120
Nitrobenzene-d5	88		23-120
2-Fluorobiphenyl	82		30-120
2,4,6-Tribromophenol	99		10-136
4-Terphenyl-d14	88		18-120

Project Name: EHS CAPITAL IMPROVEMENTS **Lab Number:** L2361331

Project Number: 2021-01 **Report Date:** 11/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/02/23 14:15
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 10/23/23 23:47

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 05 Batch: WG1843343-1					
Perfluorobutanoic Acid (PFBA)	ND		ng/g	0.500	0.023
Perfluoropentanoic Acid (PFPeA)	ND		ng/g	0.500	0.046
Perfluorobutanesulfonic Acid (PFBS)	ND		ng/g	0.250	0.039
Perfluorohexanoic Acid (PFHxA)	ND		ng/g	0.500	0.053
Perfluoroheptanoic Acid (PFHpA)	ND		ng/g	0.250	0.045
Perfluorohexanesulfonic Acid (PFHxS)	ND		ng/g	0.250	0.061
Perfluorooctanoic Acid (PFOA)	ND		ng/g	0.250	0.042
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND		ng/g	0.500	0.180
Perfluoroheptanesulfonic Acid (PFHpS)	ND		ng/g	0.500	0.136
Perfluorononanoic Acid (PFNA)	ND		ng/g	0.250	0.075
Perfluorooctanesulfonic Acid (PFOS)	ND		ng/g	0.250	0.130
Perfluorodecanoic Acid (PFDA)	ND		ng/g	0.250	0.067
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND		ng/g	0.500	0.287
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND		ng/g	0.500	0.202
Perfluoroundecanoic Acid (PFUnA)	ND		ng/g	0.500	0.047
Perfluorodecanesulfonic Acid (PFDS)	ND		ng/g	0.500	0.153
Perfluorooctanesulfonamide (FOSA)	ND		ng/g	0.500	0.098
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND		ng/g	0.500	0.085
Perfluorododecanoic Acid (PFDoA)	ND		ng/g	0.500	0.070
Perfluorotridecanoic Acid (PFTrDA)	ND		ng/g	0.500	0.204
Perfluorotetradecanoic Acid (PFTA)	ND		ng/g	0.500	0.054
PFOA/PFOS, Total	ND		ng/g	0.250	0.042

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2361331
Report Date: 11/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 134,LCMSMS-ID
Analytical Date: 11/02/23 14:15
Analyst: JW

Extraction Method: ALPHA 23528
Extraction Date: 10/23/23 23:47

Parameter	Result	Qualifier	Units	RL	MDL
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab for sample(s): 05 Batch: WG1843343-1					

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	96		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	101		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	97		74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	102		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	100		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	102		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	106		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	73		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	110		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	100		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	96		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	81		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	63		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	108		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	11		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	67		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	104		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	115		24-159

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2361331
Report Date: 11/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1841363-2 WG1841363-3								
Acenaphthene	66		66		31-137	0		50
Hexachlorobenzene	70		74		40-140	6		50
Fluoranthene	70		72		40-140	3		50
Naphthalene	65		67		40-140	3		50
Benzo(a)anthracene	71		72		40-140	1		50
Benzo(a)pyrene	80		79		40-140	1		50
Benzo(b)fluoranthene	72		73		40-140	1		50
Benzo(k)fluoranthene	71		69		40-140	3		50
Chrysene	68		68		40-140	0		50
Acenaphthylene	78		83		40-140	6		50
Anthracene	70		72		40-140	3		50
Benzo(ghi)perylene	73		73		40-140	0		50
Fluorene	69		71		40-140	3		50
Phenanthrene	66		68		40-140	3		50
Dibenzo(a,h)anthracene	73		74		40-140	1		50
Indeno(1,2,3-cd)pyrene	81		82		40-140	1		50
Pyrene	69		69		35-142	0		50
Dibenzofuran	67		68		40-140	1		50
Pentachlorophenol	72		77		17-109	7		50
Phenol	63		66		26-90	5		50
2-Methylphenol	71		72		30-130.	1		50
3-Methylphenol/4-Methylphenol	76		81		30-130	6		50
1,4-Dioxane	49		54		40-140	10		50

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2361331
Report Date: 11/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits

Semivolatile Organics by GC/MS - Westborough Lab Associated sample(s): 05 Batch: WG1841363-2 WG1841363-3

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
2-Fluorophenol	70		72		25-120
Phenol-d6	68		70		10-120
Nitrobenzene-d5	72		76		23-120
2-Fluorobiphenyl	72		74		30-120
2,4,6-Tribromophenol	82		84		10-136
4-Terphenyl-d14	70		70		18-120

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2361331
Report Date: 11/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 Batch: WG1843343-2								
Perfluorobutanoic Acid (PFBA)	106		-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	116		-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	116		-		72-128	-		30
Perfluorohexanoic Acid (PFHxA)	105		-		70-132	-		30
Perfluoroheptanoic Acid (PFHpA)	103		-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	104		-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	102		-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	104		-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	107		-		70-132	-		30
Perfluorononanoic Acid (PFNA)	98		-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	109		-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	100		-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	101		-		65-137	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	108		-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	109		-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	117		-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	112		-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	105		-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	110		-		69-135	-		30
Perfluorotridecanoic Acid (PFTrDA)	122		-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	100		-		69-133	-		30

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2361331
Report Date: 11/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 Batch: WG1843343-2								

Surrogate (Extracted Internal Standard)	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	92				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	94				58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	93				74-139
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	93				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	92				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	95				78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	98				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	74				20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	104				72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	93				79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	96				75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	79				19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	60				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	104				61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	11				10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	67				34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	107				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	122				24-159

Matrix Spike Analysis
Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2361331
Report Date: 11/02/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1843343-3 QC Sample: L2359390-11 Client ID: MS Sample												
Perfluorobutanoic Acid (PFBA)	ND	5.47	5.98	109		-	-		71-135	-		30
Perfluoropentanoic Acid (PFPeA)	ND	5.47	6.60	121		-	-		69-132	-		30
Perfluorobutanesulfonic Acid (PFBS)	ND	4.86	5.90	122		-	-		72-128	-		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	5.13	5.30	103		-	-		62-145	-		30
Perfluorohexanoic Acid (PFHxA)	ND	5.47	5.96	109		-	-		70-132	-		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	5.15	5.99	116		-	-		73-123	-		30
Perfluoroheptanoic Acid (PFHpA)	ND	5.47	5.92	108		-	-		71-131	-		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	5	5.40	108		-	-		67-130	-		30
Perfluorooctanoic Acid (PFOA)	0.108J	5.47	5.99	108		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	ND	5.2	6.35	122		-	-		64-140	-		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	5.22	5.72	110		-	-		70-132	-		30
Perfluorononanoic Acid (PFNA)	ND	5.47	5.81	106		-	-		72-129	-		30
Perfluorooctanesulfonic Acid (PFOS)	0.302	5.07	6.01	112		-	-		68-136	-		30
Perfluorodecanoic Acid (PFDA)	ND	5.47	5.90	108		-	-		69-133	-		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	5.25	5.71	109		-	-		65-137	-		30
Perfluorononanesulfonic Acid (PFNS)	ND	5.26	6.42	122		-	-		69-125	-		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	5.47	5.98	109		-	-		63-144	-		30
Perfluoroundecanoic Acid (PFUnA)	ND	5.47	6.07	111		-	-		64-136	-		30
Perfluorodecanesulfonic Acid (PFDS)	ND	5.28	6.53	124		-	-		59-134	-		30
Perfluorooctanesulfonamide (FOSA)	ND	5.47	6.42	117		-	-		67-137	-		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	5.47	5.91	108		-	-		61-139	-		30
Perfluorododecanoic Acid (PFDoA)	ND	5.47	6.40	117		-	-		69-135	-		30

Matrix Spike Analysis

Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2361331

Report Date: 11/02/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1843343-3 QC Sample: L2359390-11 Client ID: MS Sample												
Perfluorotridecanoic Acid (PFTrDA)	ND	5.47	6.82	125		-	-		66-139	-		30
Perfluorotetradecanoic Acid (PFTA)	ND	5.47	5.78	106		-	-		69-133	-		30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	53.3	65.1	122		-	-		41-165	-		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	5.17	4.78	92		-	-		61-135	-		30
Perfluorohexadecanoic Acid (PFHxDA)	ND	5.47	6.57	120		-	-		18-191	-		30
Perfluorooctadecanoic Acid (PFODA)	ND	5.47	0.940J	17		-	-		10-123	-		30
Perfluorododecane Sulfonic Acid (PFDoDS)	ND	5.29	7.29	**138**	Q	-	-		36-118	-		30
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND	5.28	6.08	115		-	-		37-261	-		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	5.11	6.22	122		-	-		67-139	-		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	5.16	6.22	121		-	-		51-155	-		30
Perfluoropropane Sulfonic Acid (PFPrS)	ND	5.03	6.62	132		-	-		50-150	-		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	5.47	5.78	106		-	-		50-150	-		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	5.47	5.71	104		-	-		50-150	-		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	4.87	5.09	105		-	-		50-150	-		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	5.47	10.5	**192**	Q	-	-		50-150	-		30

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	76				19-175
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	65				14-167

Matrix Spike Analysis

Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2361331
Report Date: 11/02/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1843343-3 QC Sample: L2359390-11 Client ID: MS Sample

Surrogate (Extracted Internal Standard)	MS % Recovery	MS Qualifier	MSD % Recovery	MSD Qualifier	Acceptance Criteria
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	68				20-154
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	92				50-150
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	87				10-203
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	60				34-137
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	52				31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	104				61-155
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	90				75-130
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	89				66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	84				71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	89				78-139
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	101				54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	113				24-159
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	99				10-145
Perfluoro[13C4]Butanoic Acid (MPFBA)	86				61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	88				58-150
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	25				10-117
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	88				79-136
Perfluoro[13C8]Octanoic Acid (M8PFOA)	90				75-130
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	95				72-140
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	86				74-139

Lab Duplicate Analysis
Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2361331
Report Date: 11/02/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1843343-4 QC Sample: L2359390-12 Client ID: DUP Sample						
Perfluorobutanoic Acid (PFBA)	ND	ND	ng/g	NC		30
Perfluoropentanoic Acid (PFPeA)	0.100J	0.082J	ng/g	NC		30
Perfluorobutanesulfonic Acid (PFBS)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	ND	ND	ng/g	NC		30
Perfluorohexanoic Acid (PFHxA)	ND	ND	ng/g	NC		30
Perfluoropentanesulfonic Acid (PFPeS)	ND	ND	ng/g	NC		30
Perfluoroheptanoic Acid (PFHpA)	ND	ND	ng/g	NC		30
Perfluorohexanesulfonic Acid (PFHxS)	ND	ND	ng/g	NC		30
Perfluorooctanoic Acid (PFOA)	0.182J	0.185J	ng/g	NC		30
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	0.353J	ND	ng/g	NC		30
Perfluoroheptanesulfonic Acid (PFHpS)	ND	ND	ng/g	NC		30
Perfluorononanoic Acid (PFNA)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonic Acid (PFOS)	0.789	0.855	ng/g	8		30
Perfluorodecanoic Acid (PFDA)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	ND	ND	ng/g	NC		30
Perfluorononanesulfonic Acid (PFNS)	ND	ND	ng/g	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid-Branched (br-NMeFOSAA)	ND	ND	ng/g	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid-Linear (L-NMeFOSAA)	ND	ND	ng/g	NC		30
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	ND	ND	ng/g	NC		30
Perfluoroundecanoic Acid (PFUnA)	ND	ND	ng/g	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2361331
Report Date: 11/02/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1843343-4 QC Sample: L2359390-12 Client ID: DUP Sample						
Perfluorodecanesulfonic Acid (PFDS)	ND	ND	ng/g	NC		30
Perfluorooctanesulfonamide (FOSA)	0.147J	0.142J	ng/g	NC		30
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	ND	ND	ng/g	NC		30
Perfluorododecanoic Acid (PFDoA)	ND	ND	ng/g	NC		30
Perfluorotridecanoic Acid (PFTrDA)	ND	ND	ng/g	NC		30
Perfluorotetradecanoic Acid (PFTA)	ND	ND	ng/g	NC		30
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid (HFPO-DA)	ND	ND	ng/g	NC		30
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	ND	ND	ng/g	NC		30
Perfluorohexadecanoic Acid (PFHxDA)	ND	ND	ng/g	NC		30
Perfluorooctadecanoic Acid (PFODA)	ND	ND	ng/g	NC		30
Perfluorododecane Sulfonic Acid (PFDoDS)	ND	ND	ng/g	NC		30
1H,1H,2H,2H-Perfluorododecanesulfonic Acid (10:2FTS)	ND	ND	ng/g	NC		30
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	ND	ND	ng/g	NC		30
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF3OUdS)	ND	ND	ng/g	NC		30
Perfluoropropane Sulfonic Acid (PFPrS)	ND	ND	ng/g	NC		30
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	ND	ND	ng/g	NC		30
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	ND	ND	ng/g	NC		30
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEESA)	ND	ND	ng/g	NC		30
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	ND	ND	ng/g	NC		30

Lab Duplicate Analysis
Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2361331
Report Date: 11/02/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits

Perfluorinated Alkyl Acids by Isotope Dilution - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1843343-4 QC Sample: L2359390-12 Client ID: DUP Sample

Surrogate (Extracted Internal Standard)	%Recovery	Qualifier	%Recovery	Qualifier	Acceptance Criteria
Perfluoro[13C4]Butanoic Acid (MPFBA)	85		82		61-135
Perfluoro[13C5]Pentanoic Acid (M5PFPEA)	89		86		58-150
Perfluoro[2,3,4-13C3]Butanesulfonic Acid (M3PFBS)	85		85		74-139
1H,1H,2H,2H-Perfluoro[1,2-13C2]Hexanesulfonic Acid (M2-4:2FTS)	60		63		14-167
Perfluoro[1,2,3,4,6-13C5]Hexanoic Acid (M5PFHxA)	92		90		66-128
Perfluoro[1,2,3,4-13C4]Heptanoic Acid (M4PFHpA)	84		84		71-129
Perfluoro[1,2,3-13C3]Hexanesulfonic Acid (M3PFHxS)	89		89		78-139
Perfluoro[13C8]Octanoic Acid (M8PFOA)	90		90		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Octanesulfonic Acid (M2-6:2FTS)	65		68		20-154
Perfluoro[13C9]Nonanoic Acid (M9PFNA)	97		94		72-140
Perfluoro[13C8]Octanesulfonic Acid (M8PFOS)	87		85		79-136
Perfluoro[1,2,3,4,5,6-13C6]Decanoic Acid (M6PFDA)	88		86		75-130
1H,1H,2H,2H-Perfluoro[1,2-13C2]Decanesulfonic Acid (M2-8:2FTS)	70		75		19-175
N-Deuteriomethylperfluoro-1-octanesulfonamidoacetic Acid (d3-NMeFOSAA)	56		56		31-134
Perfluoro[1,2,3,4,5,6,7-13C7]Undecanoic Acid (M7-PFUDA)	99		92		61-155
Perfluoro[13C8]Octanesulfonamide (M8FOSA)	65		64		10-117
N-Deuterioethylperfluoro-1-octanesulfonamidoacetic Acid (d5-NEtFOSAA)	60		60		34-137
Perfluoro[1,2-13C2]Dodecanoic Acid (MPFDOA)	100		95		54-150
Perfluoro[1,2-13C2]Tetradecanoic Acid (M2PFTEDA)	109		102		24-159
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-13C3-Propanoic Acid (M3HFPO-DA)	94		92		10-203
Perfluoro[13C2]Hexadecanoic Acid (M2PFHxDA)	96		90		10-145
1H,1H,2H,2H-Perfluorododecane Sulfonate (M2D4-10:2FTS)	88		93		50-150

PCBS

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2361331
Report Date: 11/02/23

SAMPLE RESULTS

Lab ID: L2361331-05
Client ID: EHS-CLSD-C1
Sample Location: ELMIRA, NY

Date Collected: 10/16/23 12:25
Date Received: 10/16/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8082A
Analytical Date: 10/20/23 16:50
Analyst: MEO
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 10/19/23 19:37
Cleanup Method: EPA 3665A
Cleanup Date: 10/20/23
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Polychlorinated Biphenyls by GC - Westborough Lab							
Aroclor 1016	ND		ug/kg	50.2	4.46	1	A
Aroclor 1221	ND		ug/kg	50.2	5.03	1	A
Aroclor 1232	ND		ug/kg	50.2	10.6	1	A
Aroclor 1242	ND		ug/kg	50.2	6.77	1	A
Aroclor 1248	ND		ug/kg	50.2	7.53	1	A
Aroclor 1254	ND		ug/kg	50.2	5.49	1	A
Aroclor 1260	ND		ug/kg	50.2	9.28	1	A
Aroclor 1262	ND		ug/kg	50.2	6.37	1	A
Aroclor 1268	ND		ug/kg	50.2	5.20	1	A
PCBs, Total	ND		ug/kg	50.2	4.46	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	61		30-150	A
Decachlorobiphenyl	61		30-150	A
2,4,5,6-Tetrachloro-m-xylene	59		30-150	B
Decachlorobiphenyl	51		30-150	B

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2361331
Report Date: 11/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8082A
Analytical Date: 10/20/23 12:21
Analyst: MEO

Extraction Method: EPA 3546
Extraction Date: 10/19/23 13:07
Cleanup Method: EPA 3665A
Cleanup Date: 10/19/23
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Polychlorinated Biphenyls by GC - Westborough Lab for sample(s): 05 Batch: WG1841881-1						
Aroclor 1016	ND		ug/kg	49.6	4.40	A
Aroclor 1221	ND		ug/kg	49.6	4.96	A
Aroclor 1232	ND		ug/kg	49.6	10.5	A
Aroclor 1242	ND		ug/kg	49.6	6.68	A
Aroclor 1248	ND		ug/kg	49.6	7.43	A
Aroclor 1254	ND		ug/kg	49.6	5.42	A
Aroclor 1260	ND		ug/kg	49.6	9.16	A
Aroclor 1262	ND		ug/kg	49.6	6.29	A
Aroclor 1268	ND		ug/kg	49.6	5.13	A
PCBs, Total	ND		ug/kg	49.6	4.40	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	67		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	70		30-150	B
Decachlorobiphenyl	59		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2361331

Report Date: 11/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Polychlorinated Biphenyls by GC - Westborough Lab Associated sample(s): 05 Batch: WG1841881-2 WG1841881-3									
Aroclor 1016	71		69		40-140	3		50	A
Aroclor 1260	62		60		40-140	3		50	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	74		72		30-150	A
Decachlorobiphenyl	65		62		30-150	A
2,4,5,6-Tetrachloro-m-xylene	77		75		30-150	B
Decachlorobiphenyl	66		64		30-150	B

PESTICIDES

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2361331
Report Date: 11/02/23

SAMPLE RESULTS

Lab ID: L2361331-05
Client ID: EHS-CLSD-C1
Sample Location: ELMIRA, NY

Date Collected: 10/16/23 12:25
Date Received: 10/16/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8081B
Analytical Date: 10/20/23 18:10
Analyst: MMG
Percent Solids: 94%

Extraction Method: EPA 3546
Extraction Date: 10/19/23 19:56
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/23
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/23

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Organochlorine Pesticides by GC - Westborough Lab							
Delta-BHC	ND		ug/kg	1.67	0.327	1	A
Lindane	ND		ug/kg	0.697	0.311	1	A
Alpha-BHC	ND		ug/kg	0.697	0.198	1	A
Beta-BHC	ND		ug/kg	1.67	0.634	1	A
Heptachlor	ND		ug/kg	0.836	0.375	1	A
Aldrin	ND		ug/kg	1.67	0.589	1	A
Endrin	ND		ug/kg	0.697	0.286	1	A
Dieldrin	ND		ug/kg	1.04	0.522	1	A
4,4'-DDE	ND		ug/kg	1.67	0.387	1	A
4,4'-DDD	ND		ug/kg	1.67	0.596	1	A
4,4'-DDT	ND		ug/kg	1.67	1.34	1	A
Endosulfan I	ND		ug/kg	1.67	0.395	1	A
Endosulfan II	ND		ug/kg	1.67	0.559	1	A
Endosulfan sulfate	ND		ug/kg	0.697	0.332	1	A
cis-Chlordane	ND		ug/kg	2.09	0.582	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	51		30-150	A
Decachlorobiphenyl	59		30-150	A
2,4,5,6-Tetrachloro-m-xylene	63		30-150	B
Decachlorobiphenyl	75		30-150	B

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2361331
Report Date: 11/02/23

SAMPLE RESULTS

Lab ID: L2361331-05
Client ID: EHS-CLSD-C1
Sample Location: ELMIRA, NY

Date Collected: 10/16/23 12:25
Date Received: 10/16/23
Field Prep: Not Specified

Sample Depth:
Matrix: Soil
Analytical Method: 1,8151A
Analytical Date: 10/20/23 11:00
Analyst: AKM
Percent Solids: 94%
Methylation Date: 10/19/23 21:51

Extraction Method: EPA 8151A
Extraction Date: 10/18/23 05:43

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Column
Chlorinated Herbicides by GC - Westborough Lab							
2,4,5-TP (Silvex)	ND		ug/kg	173	4.60	1	A

Surrogate	% Recovery	Qualifier	Acceptance Criteria	Column
DCAA	60		30-150	A
DCAA	58		30-150	B

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2361331
Report Date: 11/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8151A
Analytical Date: 10/20/23 09:47
Analyst: AKM

Extraction Method: EPA 8151A
Extraction Date: 10/18/23 05:03

Methylation Date: 10/19/23 21:51

Parameter	Result	Qualifier	Units	RL	MDL	Column
Chlorinated Herbicides by GC - Westborough Lab for sample(s): 05 Batch: WG1841045-1						
2,4,5-TP (Silvex)	ND		ug/kg	166	4.42	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
DCAA	**153**	Q	30-150	A
DCAA	**176**	Q	30-150	B

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2361331
Report Date: 11/02/23

Method Blank Analysis
Batch Quality Control

Analytical Method: 1,8081B
Analytical Date: 10/20/23 15:47
Analyst: MMG

Extraction Method: EPA 3546
Extraction Date: 10/19/23 17:47
Cleanup Method: EPA 3620B
Cleanup Date: 10/20/23
Cleanup Method: EPA 3660B
Cleanup Date: 10/20/23

Parameter	Result	Qualifier	Units	RL	MDL	Column
Organochlorine Pesticides by GC - Westborough Lab for sample(s): 05 Batch: WG1842008-1						
Delta-BHC	ND		ug/kg	1.53	0.299	A
Lindane	ND		ug/kg	0.636	0.284	A
Alpha-BHC	ND		ug/kg	0.636	0.181	A
Beta-BHC	ND		ug/kg	1.53	0.579	A
Heptachlor	ND		ug/kg	0.764	0.342	A
Aldrin	ND		ug/kg	1.53	0.538	A
Endrin	ND		ug/kg	0.636	0.261	A
Dieldrin	ND		ug/kg	0.955	0.477	A
4,4'-DDE	ND		ug/kg	1.53	0.353	A
4,4'-DDD	ND		ug/kg	1.53	0.545	A
4,4'-DDT	ND		ug/kg	1.53	1.23	A
Endosulfan I	ND		ug/kg	1.53	0.361	A
Endosulfan II	ND		ug/kg	1.53	0.510	A
Endosulfan sulfate	ND		ug/kg	0.636	0.303	A
cis-Chlordane	ND		ug/kg	1.91	0.532	A

Surrogate	%Recovery	Qualifier	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	64		30-150	A
Decachlorobiphenyl	79		30-150	A
2,4,5,6-Tetrachloro-m-xylene	79		30-150	B
Decachlorobiphenyl	109		30-150	B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2361331

Report Date: 11/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Chlorinated Herbicides by GC - Westborough Lab Associated sample(s): 05 Batch: WG1841045-2 WG1841045-3									
2,4,5-TP (Silvex)	90		95		30-150	5		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
DCAA	82		88		30-150	A
DCAA	91		91		30-150	B

Lab Control Sample Analysis
Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2361331
Report Date: 11/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits	Column
Organochlorine Pesticides by GC - Westborough Lab Associated sample(s): 05 Batch: WG1842008-2 WG1842008-3									
Delta-BHC	99		103		30-150	4		30	A
Lindane	93		95		30-150	2		30	A
Alpha-BHC	94		96		30-150	2		30	A
Beta-BHC	105		106		30-150	1		30	A
Heptachlor	98		94		30-150	4		30	A
Aldrin	90		93		30-150	3		30	A
Endrin	98		100		30-150	2		30	A
Dieldrin	101		106		30-150	5		30	A
4,4'-DDE	94		99		30-150	5		30	A
4,4'-DDD	99		107		30-150	8		30	A
4,4'-DDT	94		99		30-150	5		30	A
Endosulfan I	91		97		30-150	6		30	A
Endosulfan II	93		100		30-150	7		30	A
Endosulfan sulfate	92		98		30-150	6		30	A
cis-Chlordane	84		89		30-150	6		30	A

Surrogate	LCS %Recovery	Qual	LCSD %Recovery	Qual	Acceptance Criteria	Column
2,4,5,6-Tetrachloro-m-xylene	76		75		30-150	A
Decachlorobiphenyl	91		97		30-150	A
2,4,5,6-Tetrachloro-m-xylene	95		96		30-150	B
Decachlorobiphenyl	132		136		30-150	B

METALS

Project Name: EHS CAPITAL IMPROVEMENTS **Lab Number:** L2361331

Project Number: 2021-01 **Report Date:** 11/02/23

SAMPLE RESULTS

Lab ID: L2361331-05 Date Collected: 10/16/23 12:25

Client ID: EHS-CLSD-C1 Date Received: 10/16/23

Sample Location: ELMIRA, NY Field Prep: Not Specified

Sample Depth:

Matrix: Soil

Percent Solids: 94%

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Prep Method	Analytical Method	Analyst
Total Metals - Mansfield Lab											
Arsenic, Total	8.99		mg/kg	0.402	0.084	1	10/20/23 00:35	10/20/23 13:30	EPA 3050B	1,6010D	JMF
Barium, Total	13.8		mg/kg	0.402	0.070	1	10/20/23 00:35	10/20/23 13:30	EPA 3050B	1,6010D	JMF
Beryllium, Total	0.382		mg/kg	0.201	0.013	1	10/20/23 00:35	10/20/23 13:30	EPA 3050B	1,6010D	JMF
Cadmium, Total	ND		mg/kg	0.402	0.039	1	10/20/23 00:35	10/20/23 13:30	EPA 3050B	1,6010D	JMF
Chromium, Total	12.0		mg/kg	0.402	0.039	1	10/20/23 00:35	10/20/23 13:30	EPA 3050B	1,6010D	JMF
Copper, Total	26.6		mg/kg	0.402	0.104	1	10/20/23 00:35	10/20/23 13:30	EPA 3050B	1,6010D	JMF
Lead, Total	12.6		mg/kg	2.01	0.108	1	10/20/23 00:35	10/20/23 13:30	EPA 3050B	1,6010D	JMF
Manganese, Total	452		mg/kg	0.402	0.064	1	10/20/23 00:35	10/20/23 13:30	EPA 3050B	1,6010D	JMF
Mercury, Total	0.150		mg/kg	0.073	0.048	1	10/20/23 01:20	10/21/23 14:05	EPA 7471B	1,7471B	GMG
Nickel, Total	19.4		mg/kg	1.00	0.097	1	10/20/23 00:35	10/20/23 13:30	EPA 3050B	1,6010D	JMF
Selenium, Total	ND		mg/kg	0.803	0.104	1	10/20/23 00:35	10/20/23 13:30	EPA 3050B	1,6010D	JMF
Silver, Total	0.422		mg/kg	0.201	0.114	1	10/20/23 00:35	10/20/23 13:30	EPA 3050B	1,6010D	JMF
Zinc, Total	46.7		mg/kg	2.01	0.118	1	10/20/23 00:35	10/20/23 13:30	EPA 3050B	1,6010D	JMF
General Chemistry - Mansfield Lab											
Chromium, Trivalent	11.8	J	mg/kg	0.853	0.170	1		10/30/23 14:38	NA	107,-	

Project Name: EHS CAPITAL IMPROVEMENTS **Lab Number:** L2361331

Project Number: 2021-01 **Report Date:** 11/02/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05 Batch: WG1840806-1										
Arsenic, Total	ND		mg/kg	0.400	0.083	1	10/20/23 00:35	10/20/23 11:44	1,6010D	JMF
Barium, Total	ND		mg/kg	0.400	0.070	1	10/20/23 00:35	10/20/23 11:44	1,6010D	JMF
Beryllium, Total	ND		mg/kg	0.200	0.013	1	10/20/23 00:35	10/20/23 11:44	1,6010D	JMF
Cadmium, Total	ND		mg/kg	0.400	0.039	1	10/20/23 00:35	10/20/23 11:44	1,6010D	JMF
Chromium, Total	ND		mg/kg	0.400	0.038	1	10/20/23 00:35	10/20/23 11:44	1,6010D	JMF
Copper, Total	ND		mg/kg	0.400	0.103	1	10/20/23 00:35	10/20/23 11:44	1,6010D	JMF
Lead, Total	ND		mg/kg	2.00	0.107	1	10/20/23 00:35	10/20/23 11:44	1,6010D	JMF
Manganese, Total	ND		mg/kg	0.400	0.064	1	10/20/23 00:35	10/20/23 11:44	1,6010D	JMF
Nickel, Total	ND		mg/kg	1.00	0.097	1	10/20/23 00:35	10/20/23 11:44	1,6010D	JMF
Selenium, Total	ND		mg/kg	0.800	0.103	1	10/20/23 00:35	10/20/23 11:44	1,6010D	JMF
Silver, Total	ND		mg/kg	0.200	0.113	1	10/20/23 00:35	10/20/23 11:44	1,6010D	JMF
Zinc, Total	ND		mg/kg	2.00	0.117	1	10/20/23 00:35	10/20/23 11:44	1,6010D	JMF

Prep Information

Digestion Method: EPA 3050B

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
Total Metals - Mansfield Lab for sample(s): 05 Batch: WG1840807-1										
Mercury, Total	ND		mg/kg	0.083	0.054	1	10/20/23 01:20	10/21/23 12:43	1,7471B	GMG

Prep Information

Digestion Method: EPA 7471B

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2361331

Report Date: 11/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05 Batch: WG1840806-2 SRM Lot Number: D119-540								
Arsenic, Total	112		-		83-117	-		
Barium, Total	106		-		82-118	-		
Beryllium, Total	112		-		83-117	-		
Cadmium, Total	102		-		82-117	-		
Chromium, Total	108		-		82-119	-		
Copper, Total	102		-		84-116	-		
Lead, Total	110		-		82-118	-		
Manganese, Total	105		-		82-118	-		
Nickel, Total	108		-		82-117	-		
Selenium, Total	113		-		79-121	-		
Silver, Total	107		-		80-120	-		
Zinc, Total	106		-		80-120	-		
Total Metals - Mansfield Lab Associated sample(s): 05 Batch: WG1840807-2 SRM Lot Number: D119-540								
Mercury, Total	91		-		73-127	-		

Matrix Spike Analysis
Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2361331
Report Date: 11/02/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1840806-3 QC Sample: L2360898-01 Client ID: MS Sample												
Arsenic, Total	12.5	11.5	26.8	124		-	-		75-125	-		20
Barium, Total	50.9	192	242	99		-	-		75-125	-		20
Beryllium, Total	0.236J	4.8	5.18	108		-	-		75-125	-		20
Cadmium, Total	0.325J	5.09	4.91	96		-	-		75-125	-		20
Chromium, Total	22.6	19.2	39.8	89		-	-		75-125	-		20
Copper, Total	19.8	24	45.6	107		-	-		75-125	-		20
Lead, Total	250	50.9	421	**336**	Q	-	-		75-125	-		20
Manganese, Total	219	48	269	104		-	-		75-125	-		20
Nickel, Total	15.6	48	56.8	86		-	-		75-125	-		20
Selenium, Total	ND	11.5	15.5	**134**	Q	-	-		75-125	-		20
Silver, Total	0.214J	4.8	5.06	105		-	-		75-125	-		20
Zinc, Total	191	48	258	**139**	Q	-	-		75-125	-		20
Total Metals - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1840807-3 QC Sample: L2360832-09 Client ID: MS Sample												
Mercury, Total	ND	1.63	1.59	98		-	-		80-120	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2361331

Report Date: 11/02/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Total Metals - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1840806-4 QC Sample: L2360898-01 Client ID: DUP Sample						
Arsenic, Total	12.5	17.8	mg/kg	**35**	Q	20
Barium, Total	50.9	59.6	mg/kg	16		20
Cadmium, Total	0.325J	0.513	mg/kg	NC		20
Chromium, Total	22.6	25.9	mg/kg	14		20
Lead, Total	250	441	mg/kg	**55**	Q	20
Selenium, Total	ND	0.125J	mg/kg	NC		20
Silver, Total	0.214J	0.241	mg/kg	NC		20
Total Metals - Mansfield Lab Associated sample(s): 05 QC Batch ID: WG1840807-4 QC Sample: L2360832-09 Client ID: DUP Sample						
Mercury, Total	ND	ND	mg/kg	NC		20

INORGANICS
&
MISCELLANEOUS

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2361331
Report Date: 11/02/23

SAMPLE RESULTS

Lab ID: L2361331-01
Client ID: EHS-CLSD-1
Sample Location: ELMIRA, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/16/23 11:45
Date Received: 10/16/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	94.4		%	0.100	NA	1	-	10/17/23 11:56	121,2540G	ROI

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2361331
Report Date: 11/02/23

SAMPLE RESULTS

Lab ID: L2361331-02
Client ID: EHS-CLSD-2
Sample Location: ELMIRA, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/16/23 11:55
Date Received: 10/16/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.6		%	0.100	NA	1	-	10/17/23 11:56	121,2540G	ROI

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2361331
Report Date: 11/02/23

SAMPLE RESULTS

Lab ID: L2361331-03
Client ID: EHS-CLSD-3
Sample Location: ELMIRA, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/16/23 12:05
Date Received: 10/16/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	96.0		%	0.100	NA	1	-	10/17/23 11:56	121,2540G	ROI

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2361331
Report Date: 11/02/23

SAMPLE RESULTS

Lab ID: L2361331-04
Client ID: EHS-CLSD-4
Sample Location: ELMIRA, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/16/23 12:15
Date Received: 10/16/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.5		%	0.100	NA	1	-	10/17/23 11:56	121,2540G	ROI

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2361331
Report Date: 11/02/23

SAMPLE RESULTS

Lab ID: L2361331-05
Client ID: EHS-CLSD-C1
Sample Location: ELMIRA, NY
Sample Depth:
Matrix: Soil

Date Collected: 10/16/23 12:25
Date Received: 10/16/23
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab										
Solids, Total	93.8		%	0.100	NA	1	-	10/17/23 12:16	121,2540G	ROI
Cyanide, Total	ND		mg/kg	0.98	0.21	1	10/24/23 08:50	10/26/23 12:02	1,9010C/9012B	JER
Chromium, Hexavalent	0.192	J	mg/kg	0.853	0.170	1	10/26/23 11:00	10/30/23 14:38	1,7196A	DTH

Project Name: EHS CAPITAL IMPROVEMENTS **Lab Number:** L2361331

Project Number: 2021-01 **Report Date:** 11/02/23

Method Blank Analysis
Batch Quality Control

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor	Date Prepared	Date Analyzed	Analytical Method	Analyst
General Chemistry - Westborough Lab for sample(s): 05 Batch: WG1843462-1										
Cyanide, Total	ND		mg/kg	0.86	0.18	1	10/24/23 08:50	10/26/23 11:56	1,9010C/9012B	JER
General Chemistry - Westborough Lab for sample(s): 05 Batch: WG1844570-1										
Chromium, Hexavalent	ND		mg/kg	0.800	0.160	1	10/26/23 11:00	10/30/23 14:38	1,7196A	DTH

Lab Control Sample Analysis

Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS

Project Number: 2021-01

Lab Number: L2361331

Report Date: 11/02/23

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1843462-2 WG1843462-3								
Cyanide, Total	92		91		80-120	2		35
General Chemistry - Westborough Lab Associated sample(s): 05 Batch: WG1844570-2								
Chromium, Hexavalent	80		-		80-120	-		20

Matrix Spike Analysis
Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2361331
Report Date: 11/02/23

Parameter	Native Sample	MS Added	MS Found	MS %Recovery	Qual	MSD Found	MSD %Recovery	Qual	Recovery Limits	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1843462-4 WG1843462-5 QC Sample: L2361331-05 Client ID: EHS-CLSD-C1												
Cyanide, Total	ND	9.9	9.5	96		9.6	96		75-125	1		35
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1844570-4 QC Sample: L2361331-05 Client ID: EHS-CLSD-C1												
Chromium, Hexavalent	0.192J	1150	980	85		-	-		75-125	-		20

Lab Duplicate Analysis

Batch Quality Control

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2361331
Report Date: 11/02/23

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
General Chemistry - Westborough Lab Associated sample(s): 01-04 QC Batch ID: WG1840624-1 QC Sample: L2361278-08 Client ID: DUP Sample						
Solids, Total	93.2	93.3	%	0		20
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1840626-1 QC Sample: L2360770-01 Client ID: DUP Sample						
Solids, Total	78.7	80.2	%	2		20
General Chemistry - Westborough Lab Associated sample(s): 05 QC Batch ID: WG1844570-6 QC Sample: L2361331-05 Client ID: EHS-CLSD-C1						
Chromium, Hexavalent	0.192J	ND	mg/kg	NC		20

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01

Lab Number: L2361331
Report Date: 11/02/23

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Cooler Information

Cooler	Custody Seal
A	Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2361331-01A	Vial MeOH preserved	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2361331-01B	Vial water preserved	A	NA		3.5	Y	Absent	17-OCT-23 04:25	NYTCL-8260HLW(14)
L2361331-01C	Vial water preserved	A	NA		3.5	Y	Absent	17-OCT-23 04:25	NYTCL-8260HLW(14)
L2361331-01D	Plastic 120ml unpreserved	A	NA		3.5	Y	Absent		TS(7)
L2361331-02A	Vial MeOH preserved	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2361331-02B	Vial water preserved	A	NA		3.5	Y	Absent	17-OCT-23 04:25	NYTCL-8260HLW(14)
L2361331-02C	Vial water preserved	A	NA		3.5	Y	Absent	17-OCT-23 04:25	NYTCL-8260HLW(14)
L2361331-02D	Plastic 120ml unpreserved	A	NA		3.5	Y	Absent		TS(7)
L2361331-03A	Vial MeOH preserved	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2361331-03B	Vial water preserved	A	NA		3.5	Y	Absent	17-OCT-23 04:25	NYTCL-8260HLW(14)
L2361331-03C	Vial water preserved	A	NA		3.5	Y	Absent	17-OCT-23 04:25	NYTCL-8260HLW(14)
L2361331-03D	Plastic 120ml unpreserved	A	NA		3.5	Y	Absent		TS(7)
L2361331-04A	Vial MeOH preserved	A	NA		3.5	Y	Absent		NYTCL-8260HLW(14)
L2361331-04B	Vial water preserved	A	NA		3.5	Y	Absent	17-OCT-23 04:25	NYTCL-8260HLW(14)
L2361331-04C	Vial water preserved	A	NA		3.5	Y	Absent	17-OCT-23 04:25	NYTCL-8260HLW(14)
L2361331-04D	Plastic 120ml unpreserved	A	NA		3.5	Y	Absent		TS(7)
L2361331-05A	Plastic 2oz unpreserved for TS	A	NA		3.5	Y	Absent		TS(7)
L2361331-05B	Metals Only-Glass 60mL/2oz unpreserved	A	NA		3.5	Y	Absent		BE-TI(180),BA-TI(180),AS-TI(180),AG-TI(180),CR-TI(180),NI-TI(180),ZN-TI(180),SE-TI(180),CU-TI(180),PB-TI(180),HG-T(28),MN-TI(180),CD-TI(180)
L2361331-05C	Glass 120ml/4oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2361331-05D	Plastic 8oz unpreserved	A	NA	NA	3.5	Y	Absent		-
L2361331-05E	Plastic 8oz unpreserved	A	NA		3.5	Y	Absent		A2-NY-537-ISOTOPE(90)

*Values in parentheses indicate holding time in days

Project Name: EHS CAPITAL IMPROVEMENTS
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Lab Number: L2361331
Report Date: 11/02/23

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2361331-05F	Glass 500ml/16oz unpreserved	A	NA		3.5	Y	Absent		NYTCL-8270(14),TCN-9010(14),HERB-APA(14),NYTCL-8081(14),NYTCL-8082(365),HEXCR-7196(30)
L2361331-05X	Plastic 250ml unpreserved Extracts	NA	NA			Y	Absent		HOLD-537(14)
L2361331-05X1	Plastic 250ml unpreserved Extracts	NA	NA			Y	Absent		HOLD-537(14)
L2361331-05X9	Plastic 8oz unpreserved	NA	NA			Y	Absent		-

*Values in parentheses indicate holding time in days

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2361331
Report Date: 11/02/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
PERFLUOROALKYL CARBOXYLIC ACIDS (PFCAs)		
Perfluorooctadecanoic Acid	PFODA	16517-11-6
Perfluorohexadecanoic Acid	PFHxDA	67905-19-5
Perfluorotetradecanoic Acid	PFTA/PFTeDA	376-06-7
Perfluorotridecanoic Acid	PFTrDA	72629-94-8
Perfluorododecanoic Acid	PFDoA	307-55-1
Perfluoroundecanoic Acid	PFUnA	2058-94-8
Perfluorodecanoic Acid	PFDA	335-76-2
Perfluorononanoic Acid	PFNA	375-95-1
Perfluorooctanoic Acid	PFOA	335-67-1
Perfluoroheptanoic Acid	PFHpA	375-85-9
Perfluorohexanoic Acid	PFHxA	307-24-4
Perfluoropentanoic Acid	PFPeA	2706-90-3
Perfluorobutanoic Acid	PFBA	375-22-4
PERFLUOROALKYL SULFONIC ACIDS (PFSAs)		
Perfluorododecanesulfonic Acid	PFDoDS/PFDoS	79780-39-5
Perfluorodecanesulfonic Acid	PFDS	335-77-3
Perfluorononanesulfonic Acid	PFNS	68259-12-1
Perfluorooctanesulfonic Acid	PFOS	1763-23-1
Perfluoroheptanesulfonic Acid	PFHpS	375-92-8
Perfluorohexanesulfonic Acid	PFHxS	355-46-4
Perfluoropentanesulfonic Acid	PFPeS	2706-91-4
Perfluorobutanesulfonic Acid	PFBS	375-73-5
Perfluoropropanesulfonic Acid	PFPrS	423-41-6
FLUOROTELOMERS		
1H,1H,2H,2H-Perfluorododecanesulfonic Acid	10:2FTS	120226-60-0
1H,1H,2H,2H-Perfluorodecanesulfonic Acid	8:2FTS	39108-34-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid	6:2FTS	27619-97-2
1H,1H,2H,2H-Perfluorohexanesulfonic Acid	4:2FTS	757124-72-4
PERFLUOROALKANE SULFONAMIDES (FASAs)		
Perfluorooctanesulfonamide	FOSA/PFOSA	754-91-6
N-Ethyl Perfluorooctane Sulfonamide	NEtFOSA	4151-50-2
N-Methyl Perfluorooctane Sulfonamide	NMeFOSA	31506-32-8
PERFLUOROALKANE SULFONYL SUBSTANCES		
N-Ethyl Perfluorooctanesulfonamido Ethanol	NEtFOSE	1691-99-2
N-Methyl Perfluorooctanesulfonamido Ethanol	NMeFOSE	24448-09-7
N-Ethyl Perfluorooctanesulfonamidoacetic Acid	NEtFOSAA	2991-50-6
N-Methyl Perfluorooctanesulfonamidoacetic Acid	NMeFOSAA	2355-31-9
PER- and POLYFLUOROALKYL ETHER CARBOXYLIC ACIDS		
2,3,3,3-Tetrafluoro-2-[1,1,2,2,3,3,3-Heptafluoropropoxy]-Propanoic Acid	HFPO-DA	13252-13-6
4,8-Dioxa-3h-Perfluorononanoic Acid	ADONA	919005-14-4
CHLORO-PERFLUOROALKYL SULFONIC ACIDS		
11-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid	11Cl-PF3OUdS	763051-92-9
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid	9Cl-PF3ONS	756426-58-1
PERFLUOROETHER SULFONIC ACIDS (PFESAs)		
Perfluoro(2-Ethoxyethane)Sulfonic Acid	PFEESA	113507-82-7
PERFLUOROETHER/POLYETHER CARBOXYLIC ACIDS (PFPCAs)		
Perfluoro-3-Methoxypropanoic Acid	PFMPA	377-73-1
Perfluoro-4-Methoxybutanoic Acid	PFMBA	863090-89-5
Nonafluoro-3,6-Dioxaheptanoic Acid	NFDHA	151772-58-6

Project Name: EHS CAPITAL IMPROVEMENTS
Project Number: 2021-01
Lab Number: L2361331
Report Date: 11/02/23

PFAS PARAMETER SUMMARY

Parameter	Acronym	CAS Number
FLUOROTELOMER CARBOXYLIC ACIDS (FTCAs)		
3-Perfluoroheptyl Propanoic Acid	7:3FTCA	812-70-4
2H,2H,3H,3H-Perfluorooctanoic Acid	5:3FTCA	914637-49-3
3-Perfluoropropyl Propanoic Acid	3:3FTCA	356-02-5

Project Name:	EHS CAPITAL IMPROVEMENTS	**Lab Number:**	L2361331
Project Number:	2021-01	**Report Date:**	11/02/23

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: DU Report with 'J' Qualifiers

Project Name:	EHS CAPITAL IMPROVEMENTS	**Lab Number:**	L2361331
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Footnotes

1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA,this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

A - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.

B - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

F - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively

Report Format: DU Report with 'J' Qualifiers

Project Name:	EHS CAPITAL IMPROVEMENTS	**Lab Number:**	L2361331
Project Number:	2021-01	**Report Date:**	11/02/23

Data Qualifiers

Identified Compounds (TICs). For calculated parameters, this represents that one or more values used in the calculation were estimated.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

V - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Z - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name:	EHS CAPITAL IMPROVEMENTS	**Lab Number:**	L2361331
Project Number:	2021-01	**Report Date:**	11/02/23

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - VI, 2018.

107 Alpha Analytical - In-house calculation method.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

134 Determination of Selected Perfluorinated Alkyl Acids in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS) using Isotope Dilution. Alpha SOP 23528.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624.1: m/p-xylene, o-xylene, Naphthalene
EPA 625.1: alpha-Terpineol
EPA 8260D: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270E: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
SM4500: NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO2, NO3.

Mansfield Facility
SM 2540D: TSS.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**
EPA 524.2: THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH: Ammonia-N and Kjeldahl-N, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2**: Nitrate-N**, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.**
EPA 624.1: Volatile Halocarbons & Aromatics,
EPA 608.3: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625.1: SVOC (Acid/Base/Neutral Extractables).
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

Mansfield Facility:

Drinking Water
EPA 200.7: Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1** Hg.
EPA 522, EPA 537.1.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb**,** As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

NEW YORK CHAIN OF CUSTODY

ALPHA ANALYTICAL

Westborough, MA 01581 — 8 Walkup Dr. — TEL: 508-898-9220 — FAX: 508-898-9193

Mansfield, MA 02048 — 320 Forbes Blvd — TEL: 508-822-9300 — FAX: 508-822-3288

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 10/17/23

ALPHA Job #: L2361331

Client Information
Client: Sterling Env. Eng.
Address: 24 Wade Rd
Latham, NY 12110
Phone: 518-456-4900
Fax:
Email:

Project Information
Project Name: EHS Capital Improvements
Project Location: Elmira, NY
Project # 2021-01
(Use Project name as Project #) ☐
Project Manager: A. Millspaugh / M. Deyo
ALPHAQuote #:

Turn-Around Time
Standard ☐ Due Date: 10/30/23
Rush (only if pre approved) ☒ # of Days: 10 DAYS

Deliverables
☐ ASP-A ☒ ASP-B
☐ EQuIS (1 File) ☒ EQuIS (4 File)
☐ Other

Billing Information
☒ Same as Client Info
PO #

Regulatory Requirement
☐ NY TOGS ☐ NY Part 375
☐ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☒ Other DER-10
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Disposal Site Information
Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

☐ These samples have been previously analyzed by Alpha

Other project specific requirements/comments:
sandrea.millspaugh@sterlingenvironmental.com
amanda.castignetti@sterlingenvironmental.com

Please specify Metals or TAL.

ANALYSIS

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	DER-10 Total Metals, Total Hg, Cyanide	DER-10 Hex Chromium	DER-10 VOCs (8260)	DER-10 SVOCs (8270)	DER-10 Pests/Herbs (8081, 8151)	Total PCBs (8082)	Total Solids	PFAS/SPLP* (537.1 mod)	Sample Specific Comments	Total Bottle
61331-01	EHS-CLSD-1	10/16/2023	1145	SOIL	AMC			X				X			4
-02	EHS-CLSD-2		1155					X				X			4
-03	EHS-CLSD-3		1205					X				X			4
-04	EHS-CLSD-4		1215					X				X			4
-05	EHS-CLSD-C1		1225			X	X		X	X	X	X	X	SPLP only if exceedence of guidelines.	6

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Container Type	A	A	V	A	A	A	P	P
Preservative	A	A	B/F	A	A	A	A	A

Relinquished By:	Date/Time	Received By:	Date/Time
	10/16/23 1800		10/17/23 0830

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS. (See reverse side.)

Form No: 01-25 HC (rev. 30-Sept-2013)