

**Pre-Design Site Assessment Report
Old Moreau and Special Area 13
Dredge Spoil Disposal Area Sites
Moreau, New York**

Site Numbers 546040 & 546041

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Prepared for:

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List of Abbreviations and Acronyms

bgs	Below ground surface
C	Celsius
DER	Division of Environmental Remediation
DUSR	Data Usability Summary Report
E & E	Ecology and Environment Engineering and Geology, P.C.
EPA	U.S. Environmental Protection Agency
IDW	Investigation-derived waste
LaBella	LaBella Associates, LLC
MW	monitoring well
NAD83	North American Datum of 1983
NAVD88	North American Vertical Datum of 1988
NYSDEC	New York State Department of Environmental Conservation
OM	Old Moreau Dredge Spoil Disposal Area
PCB	Polychlorinated biphenyl
ppm	Part per million
QA	Quality assurance
QC	Quality control
QAPP	Quality Assurance Project Plan
RAWP	Remedial Action Work Plan
SA	Site Assessment
SA13	Special Area 13 Dredge Disposal Area Site
SAP	Sampling and analysis plan
SCO	Soil cleanup objective
SOP	Standard operating procedure
SVOC	Semi-volatile organic compound
TestAmerica	TestAmerica Laboratories
VOC	Volatile organic compound

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Introduction

Pursuant to Work Assignment Numbers D009807-15 and D009807-16, Ecology and Environment Engineering and Geology, P.C. (E & E) prepared this pre-design site assessment (SA) report for the Old Moreau Dredge Disposal Area (OM) site and the Special Area 13 Dredge Disposal Area (SA13) site in Moreau, Saratoga County, New York (see Figure 1-1). This report was prepared for the New York State Department of Environmental Conservation (NYSDEC), Division of Environmental Remediation (DER) to support the development of a Remedial Action Work Plans (RAWPs) for the OM and SA13 Dredge Spoil Disposal Area Sites based on the 2012 Records of Decision for both sites (Sites No. 546040 and 546041). The sites are a former dredge spoil disposal area in the town of Moreau, New York, used by the New York State Department of Transportation to contain polychlorinated biphenyl (PCB) contaminated sediment and debris removed from the Hudson River in the 1950s through 1970s.

There were five primary objectives for this SA, and they include:

- Collect a groundwater sample from OM monitoring well (MW) OM-MW-08 to determine whether PCB contamination is present in the groundwater and if so, install soil boring/piezometer to define the extent of an excavation to comply with the soil cleanup objective of 3.2 parts per million (ppm) for protection of groundwater;
- Install test pits to assess the extent and thickness of the white plastic-like material located along the southeastern margin of the OM site near the western bank of the Hudson River and north of the GE Work Support Marina;
- Install a test pit across the Moreau dredge spoil containment cell drainage ditch north of the GE Work Support Marina access road to determine whether the ditch is asphalt-lined;
- Install test pits on the northern/western side of the Mill Site Road within 50 feet of West River Road to determine whether dredge spoil material is present and if so, the extent and thickness of the spoil material; and
- Install Geoprobe soil sample locations on the northern side of the Morrison residential property portion of the SA13 site to determine the extent and thickness of dredge spoil material exceeding the 1 ppm soil cleanup objective (SCO) for restricted residential use.

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Investigation Summary

The purpose of the SA is to investigate areas of the OM and SA13 sites and collect additional information to assist with the development of the RAWPs. SA activities included a review of previous site investigations and figures; site reconnaissance, development of a sampling and analysis plan (SAP) (E & E 2021); collection of a groundwater sample from an existing OM site well; test pit installation on the OM site for visual inspection of plastic-like material; Geoprobe installation on the SA13 site to determine extent and depth of dredge spoil material above 1 ppm; site survey; investigation-derived waste management; and preparation of a summary report.

Field activities were performed by an E & E field team consisting of a geologist and a site safety officer during three field efforts. The first field effort involved the purging and low-flow sampling of one existing site monitoring well (OM-MW-08) on April 16, 2021. The second field effort involved the installation of 11 test pits over various areas of the site on May 13 and 14, 2021. The third field effort involved the installation and sampling of Geoprobe soil locations on the Morison portion of the SA13 site and the collection of a plastic-like sample for laboratory analysis on July 23, 2021.

A summary of the field procedures and modifications to the planned field investigation is provided in the following subsections. A photographic log of field activities is presented in Appendix A, field data forms are presented in Appendix B, and laboratory data and data usability reports are presented in Appendix C.

2.1 Pre-Field Investigation Activities

Before initiating on-site activities, NYSDEC obtained access permission for SA activities.

A site reconnaissance of the OM, Moreau, and SA13 sites was conducted by NYSDEC and E & E project managers on April 8, 2021. The main purpose was to assess current site conditions and accessibility and to determine the appropriate sampling areas. After the site walkover, E & E prepared and submitted the OM SAP to the NYSDEC on May 3, 2021. A site-specific health and safety plan was prepared for this fieldwork and was included in the SAP.

E & E's test pit subcontractor, LaBella Associates of Rochester, New York (LaBella), contacted Dig Safely New York to request mark-outs of underground utilities the week before beginning intrusive activities.

2.2 Monitoring Well Sampling

On April 16, 2021, OM-MW-08 was sampled using modified low-flow purging and sampling techniques with a bladder pump and dedicated polyethylene tubing to identify whether dissolved PCB contamination is present in groundwater. Purge water was pumped through a flow-through cell to collect water quality parameters. Upon stabilization of parameters, the groundwater sample and a duplicate sample were collected using a dedicated polyethylene bailer and rope and then field filtered using a 0.45-micron filter. The purge log that includes the final groundwater quality parameters measured at the time of sampling are provided in Appendix B.

Upon collection, the sample containers were labeled and immediately placed in a cooler maintained with ice at 4 degrees Celsius (C). The samples were delivered by E & E to Eurofins TestAmerica Laboratories (TestAmerica) in Buffalo, New York (under subcontract with NYSDEC), that same day for total PCBs analysis by U.S. Environmental Protection Agency (EPA) SW-846 Method 8082A.

2.3 Test Pits

LaBella had a one-person crew using a track Bobcat E35 excavator with an approximately 1-cubic-yard bucket with a maximum 8-foot reach to perform all the test pit work. E & E performed air monitoring in the work areas on of the excavated material using a MiniRAE 3000 photoionization detector with a 10.6 ev lamp, a QRAE 4-gas meter, and a Thermo pDR-1000AN Personal DataRAM Dust Monitor.

In general, all test-pitting and soil-logging procedures followed the objectives and methods identified in the geologic logging standard operating procedure (SOP) in E & E's Field Activities Plan. During test pit work, excavated surface and nonvisually impacted subsurface soils were placed on one side of the trench, while potentially impacted material (such as the white plastic-like material, dredge spoils, or garbage) were placed on the other side of the trench. Upon backfilling of each test pit, the potentially impacted material was placed in the trench first, followed by the soil material on top wherever possible.

Upon completion of test pit work in an area, foreign matter was removed, and excavator equipment was decontaminated using a high-pressure steam cleaner in the trench area so wastewater could run back into the subsurface of where it was generated.

Photos of all test pit work are presented in Appendix A, and Appendix B has the completed trench log forms.

2.3.1 White Plastic-like Test Pits

During previous investigation work performed at the site, a white plastic-like material was identified at the surface in a few areas along the southeast margin of the identified dredge spoil area of the OM site near the western bank of the Hudson River (see Figure 2-1). The white plastic-like material is believed to have been manufactured from the recycling processes at the former James River facility situated on the Georgia Pacific parcel where GE's Backfill Loading Storage Area was built.

E & E installed 11 test pits up to 80 feet long and 8 feet below ground surface (bgs) throughout the area in attempt to identify the extent and thickness of this white plastic-like material (see Figure 2-1). A summary of test pit findings presented in Table 2-1, with test pit trench field log forms provided in Appendix B. Although the white plastic-like material was identified a few areas at the surface in this area, it appears the majority of this material is found throughout the test pit area generally with 1 to 5 feet of soil/sandy material on top as cover. The depth of the plastic-like material exceeded the maximum 8-foot reach of the excavator at four of the 11 test pit locations (C, D, G, and I), so the total depth/thickness of the plastic-like material in these areas is unknown. It also appears dredge spoils may be present in the subsurface at a couple of the test pits (such as F).

In general, the material appears to be thin sheets to shredded white plastic with some colors and writing printed on the material in compacted layers 0.5 feet to 5 or more feet thick. At a few of the test pits (such as C and H), it appears the plastic-like material may have been burnt. There is an odor emanating from the material, but the highest reading detected on the photoionization detector was 0.2 ppm.

During the July 23 field effort, the white plastic-like material near the surface from the test pit area "I" was sampled for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and per- and polyfluoroalkyl substances. Upon collection, the sample containers were labeled and immediately placed in a cooler maintained with ice at 4°C. The samples were shipped to Eurofins TestAmerica in Buffalo (under subcontract with NYSDEC) for next day delivery.

2.3.2 Moreau Drainage Ditch Test Pit

One test pit (J) was dug across the drainage ditch that channels surface water runoff from the Moreau-capped cell eastward to the Hudson River, about 100 feet west of the access road to the GE Work Support Marina. This test pit was dug to determine whether this section of the ditch was lined with asphalt (see Figure 2-1). The test pit started about 2 feet south of the center line of the ditch and was dug to a depth of about 2 feet bgs that extended northward to the edge of the ditch. The top 1.5 feet of material appears to be organic rich brown fine sandy silt. However, the white plastic-like material was similar to what was discussed in Section 2.3.1 above was identified in the trench starting at 1.5 feet bgs. Based on discussions with the NYSDEC, it was decided to not extend the trench deeper to identify the thickness of the plastic-like material.

2.3.3 Mill Site Road Test Pits

E & E installed six test pits up to 65 feet long and 4 feet deep on the northwest side of the Mill Site access road before the first access gate to the OM site to determine whether dredge spoil material was present on this side of the road (see Figure 2-2). Suspected dredge spoils were only identified in two test pits 1 to 2 feet in thickness and within 1 or 2 feet immediately adjacent to the road (see the logs for test pit N and O). Besides this minor amount of suspected dredge spoils, the remaining test pit material was primarily brown silty fine-grained sand with some organic material present in the top 6 inches.

2.4 Direct-Push Soil Borings

A total of four direct-push soil borings were installed on July 23 on the northern portion of Fill Area 3 (the Morrison residential property) on the SA13 site to determine the extent and depth of dredge spoils exceeding the 1 ppm SCO for restricted residential use. Soil borings were installed by LaBella using a Geoprobe Model 6019 DT direct-push machine attached to a skid-steer and 2.25-inch-diameter Macro-Core® probing rods with 1.5-inch-diameter, dedicated sleeves. The four boring locations are shown on Figure 2-3. Photos of the direct-push work are presented in Appendix A, while the soil boring logs are provided in Appendix B.

Five direct-push soil boring locations were initially proposed, but access to three of the locations were restricted due to trees (standing and fallen) and miscellaneous debris or vehicles located throughout the Morrison property. As a result, the locations for two of the samples were modified in the field and a total of four direct-push locations were sampled. Soil borings were extended 10 to 15 feet bgs and two or three soil samples were collected from each boring. In soil borings where suspected dredge spoil material was greater than 4 feet thick or found in multiple intervals, multiple samples of the suspected dredge material were collected. In soil borings where suspected dredge spoil material was less than two feet thick, one sample was collected from the suspected dredge material and a second sample was collected from the soil material approximately 1 to 2 feet below the suspected dredge material.

Soil samples were collected from the sampling device using a plastic spoon and then placed in a disposable paper bowl and stirred with the spoon before transfer to the laboratory container for and total PCBs analysis (Method 8082A). Upon collection, the sample containers were labeled and immediately placed in a cooler maintained with ice at 4°C. The samples were shipped by E & E to Eurofins Test-America, Buffalo (under subcontract with NYSDEC) for next day delivery.

Following completion of soil sampling, the direct-push borings were backfilled with the remaining soil not used in sample collection to the extent possible, with any remaining soil spread at the surface around the sample point.

For the soil borings, the only portion of the direct-push tooling that came into contact with the soil samples (besides the sleeves) was the cutting shoe of the

Macro-Core casing. The shoe and the casing itself were decontaminated before each use by scrubbing with a laboratory-grade detergent (e.g., Alconox) solution and rinsing the equipment with potable water.

2.5 Site Survey

The preconstruction site survey was developed by WSP USA Inc.—licensed land surveying staff using a combination of aerial flight data and standard surveying technologies. The purpose of the survey was to locate all permanent and semi-permanent site features that may be relevant to the RAWP, construct a topographic survey across all three sites using 1-foot contour interval, and identify the test pit locations installed during the SA.

Standard surveying work was performed during four separate field efforts. The first survey effort was performed on April 19, 2021, to set up and survey targets before the collection of the aerial flight data on April 26, 2021. The second field effort was performed on May 14, 2021, to identify the horizontal position of the test pit trenches installed during the SA fieldwork and some key site features. The third field effort was performed on June 7 and 8, 2021, for spot elevation checks and to collect additional key site features that were obscured in the aerial survey by brush and tree canopy. The fourth field effort was performed on July 23, 2021, to identify the horizontal position of the four direct-push soil borings installed in Fill Area 3.

Horizontal coordinates were given in the New York State Plane (East Zone) coordinate system to an accuracy of ± 0.5 feet relative to the North American Datum of 1983 (NAD83). Vertical elevations were given relative to the North American Vertical Datum of 1988 (NAVD88).

2.6 Investigation-Derived Waste Management

The following types of investigation-derived waste (IDW) were generated during this investigation: monitoring well sampling purge water; excavated soil and material from test pits; decontamination water; and spent personal protective equipment (primarily nitrile gloves). No IDW material was containerized as the cover remedy will mitigate any IDW created during this investigation.

Liquid IDW, including water generated during equipment decontamination and purge water from groundwater sampling, was discharged onto the ground surface adjacent to the associated test pit/monitoring well as no signs of gross contamination were identified.

All test pit excavated material was backfilled to the extent possible at each test pit location. The potentially impacted material was placed in the trench first, and the remaining material was spread on the ground near the area of generation.

All expendable materials generated during the investigation (primarily nitrile gloves) was bagged and disposed of off-site as nonhazardous solid waste by the test pit subcontractor.

2.7 Sample Handling and Analysis

Groundwater samples were collected in containers provided by TestAmerica. Upon collection, the sample containers were labeled and immediately placed in a cooler maintained with ice at 4°C pending E & E's delivery to the Eurofins TestAmerica Buffalo laboratory.

The groundwater sample was analyzed by TestAmerica for total PCBs analysis by EPA Method SW8082A. The plastic-like material sample was analyzed for VOCs (Method SW8260C), SVOCs (Method SW8270D), and per- and polyfluoroalkyl substances (Method LC/MS/MS E537). The soil samples were analyzed for total PCBs analysis (Method SW8082A).

Reports were consistent with NYSDEC Analytical Services Protocol Category B deliverable requirements, and data were provided in NYSDEC EQuIS electronic data deliverables for review by E & E. Laboratory reports and DUSRs are provided in Appendix C.

2.8 Quality Assurance/Quality Control

Quality assurance (QA)/quality control (QC) samples, including field duplicates, were generally collected in accordance with the specifications of E & E's Quality Assurance Project Plan (for NYSDEC projects (E & E 2011)).

Since only one groundwater sample was collected, only one duplicate sample of the groundwater was collected.

Due to a limited number of soil jars for the Geoprobe soil sampling and a third sample collected from soil boring location SA13-03, a duplicate soil sample was the only QA/QC soil sample collected.

The NYSDEC did not set up with the laboratory for any QA/QC samples to be collected of the white plastic-like material.

Duplicate samples provide insight into the homogeneity of the sample matrix and establish a degree of confidence in the precision of the field sampling and analytical method. A review of the duplicate sample results is provided in the data usability summary reports (DUSRs) provided in Appendix C.

2.9 Data Review

All laboratory deliverables were reviewed in accordance with the Quality Assurance Project Plan (E&E 2020). The data were qualified following general guidelines in the EPA Region 2 SOP, Hazardous Waste Support Section, EPA Region 2 SOP HW-2a (EPA 2012). DUSRs were prepared for each phase of sample analysis as specified in Appendix 2B of NYSDEC's *Technical Guidance for Site Investigation and Remediation* (NYSDEC 2010). The data review included an evaluation of the following:

- Holding times;
- Initial and continuing calibration;
- Reporting limits/dilutions;
- Calibration blanks and method blanks;
- Matrix spike/matrix spike duplicate samples;
- Laboratory control samples;
- Field duplicates; and
- Interference checks.

DUSRs were prepared by E & E's data validation chemist for all sampling events (see Appendix C). Any deviations from acceptable QC specifications are discussed in the DUSRs. Qualifiers were added to the data, if appropriate, to indicate potential concerns with data usability, and these qualifiers were transferred to the data summary tables presented in Appendix C. There were no significant impacts on data usability.

3

Analytical Results

This section presents the analytical results for the groundwater, soil, and plastic-like material sampling activities to provide a better understanding of the contamination present on the OM and SA13 sites for the RAWP development.

3.1 MW-08 Groundwater Sample Results

No PCBs were detected in the groundwater sample collected from OM-MW-08 (see Table 3-1).

3.2 Plastic Sample Results

VOCs and SVOCs were not detected in the plastic-like material sample collected from test pit I; however three per- and polyfluoroalkyl substances analytes were detected: perfluoroheptanesulfonic acid (PFHpS), perfluorobutanoic acid, and perfluorohexanoic acid (PFHxA) (see Table 3-2).

3.3 Direct-Push Soil Sample Results

One PCB aroclor (Aroclor 1248) was detected in four of the nine soil samples collected ranging from 4 ppm to 14 ppm (see Table 3-3).

4

References

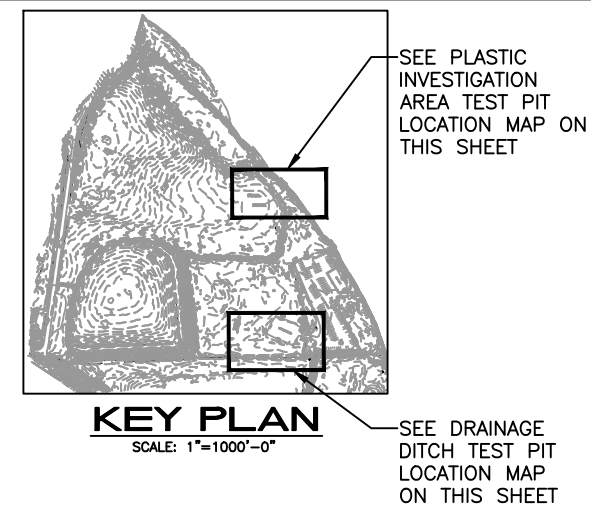
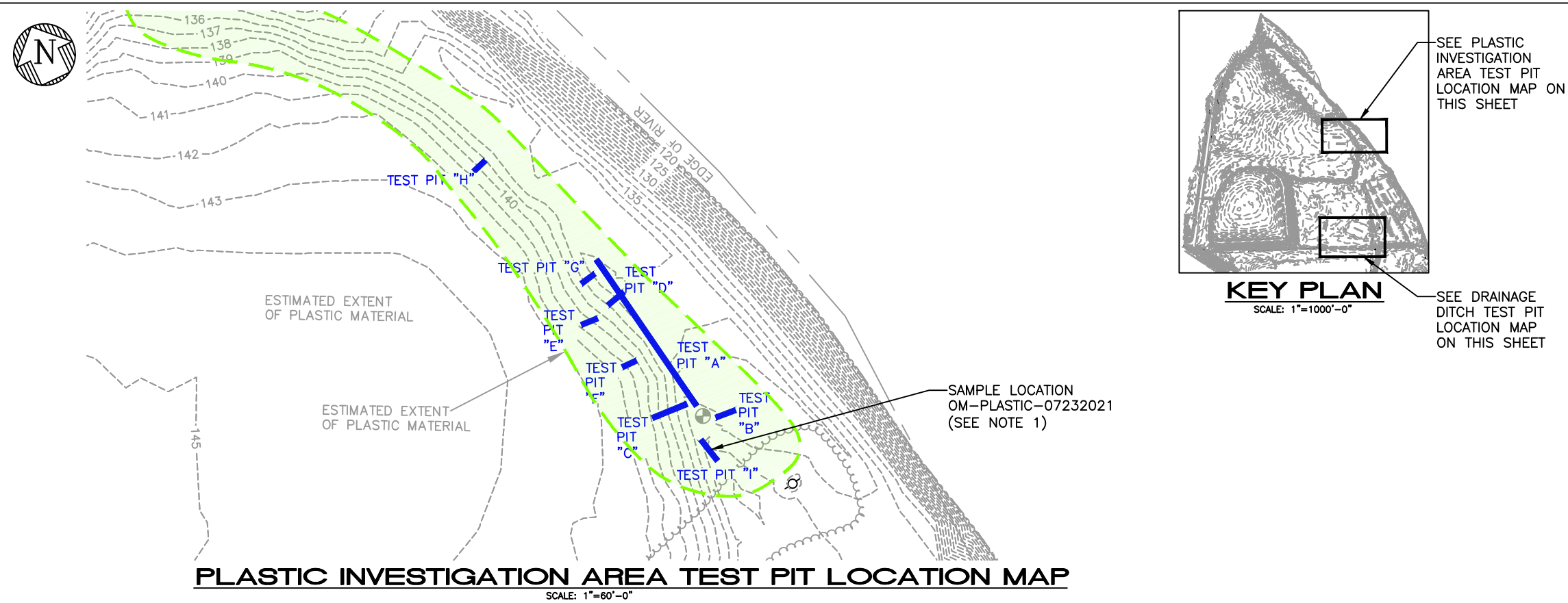
Ecology and Environment Engineering, P.C. (E&E). 2020. *Master Quality Assurance Project Plan (QAPP) for New York State Department of Environmental Conservation Projects*. Prepared for New York State Department of Environmental Conservation, Albany, New York, April 2020.

_____. 2021. *Site Assessment Sampling and Analysis Plan, Old Moreau Dredge Spoil Disposal Areas, NYSDEC Site No. 546040*. Prepared for New York State Department of Environmental Conservation, Albany, New York, May 2021.

New York State Department of Environmental Conservation (NYDEC). 2010. *DER-10, Technical Guidance for Site Investigation and Remediation*, Division of Environmental Remediation, Albany, New York, May 2010.

U.S. Environmental Protection Agency (EPA) Region 2. 2012. *Standard Operating Procedure (SOP), Hazardous Waste Support Section, SOP No. HW-2a Revision 15, ICP-AES Data Validation*. New York, New York, December 2012.

Figures



- LEGEND:**
- TEST PIT "H"  TEST PIT LOCATION
-  ESTIMATED EXTENT OF PLASTIC MATERIAL (BASED ON CURRENT AND HISTORIC DATA)
- LEGEND:**
1. SAMPLE OM-PLASTIC-07232021 WAS COLLECTED AT THE SAME LOCATION AS TEST PIT "I".

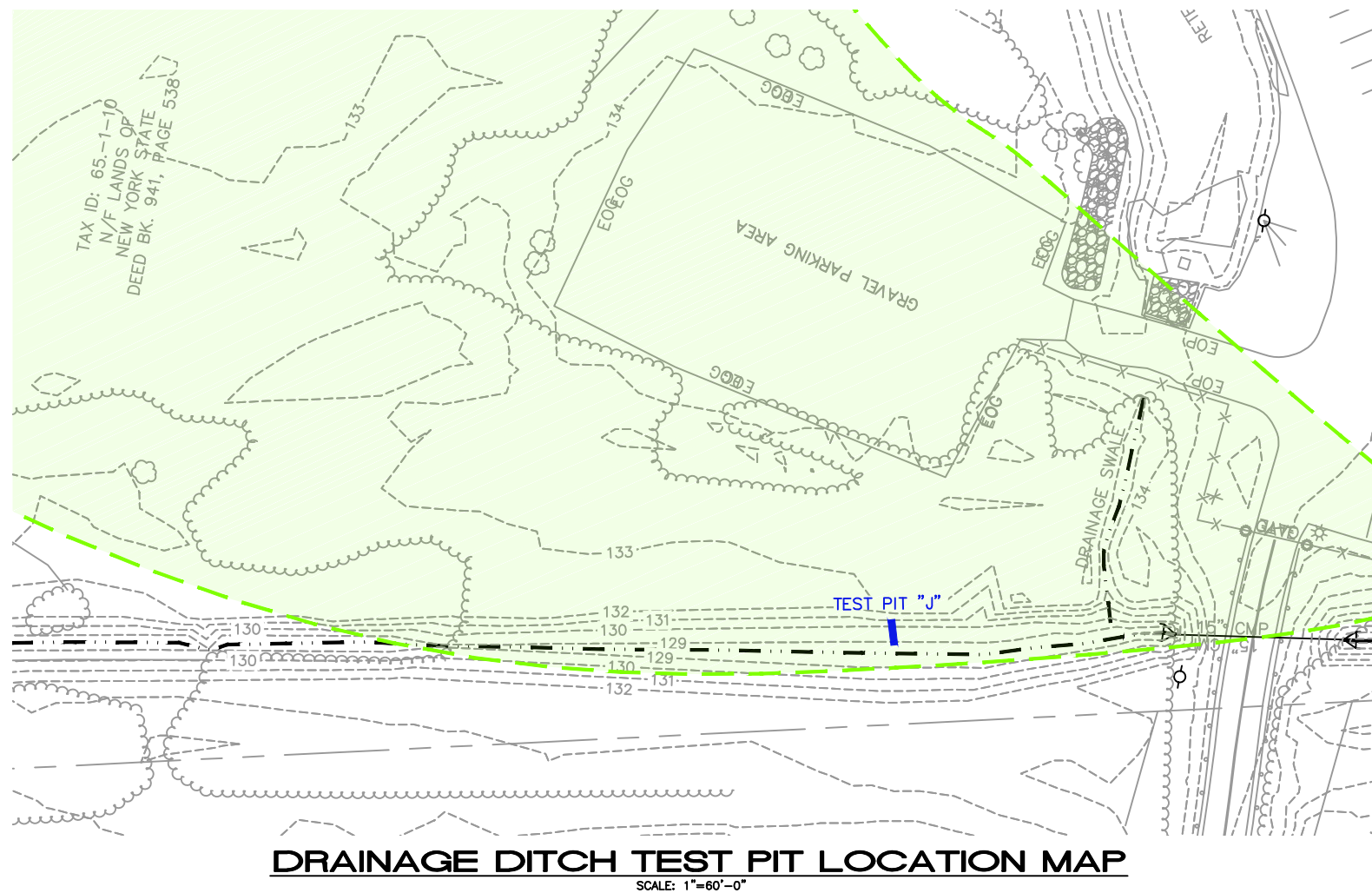
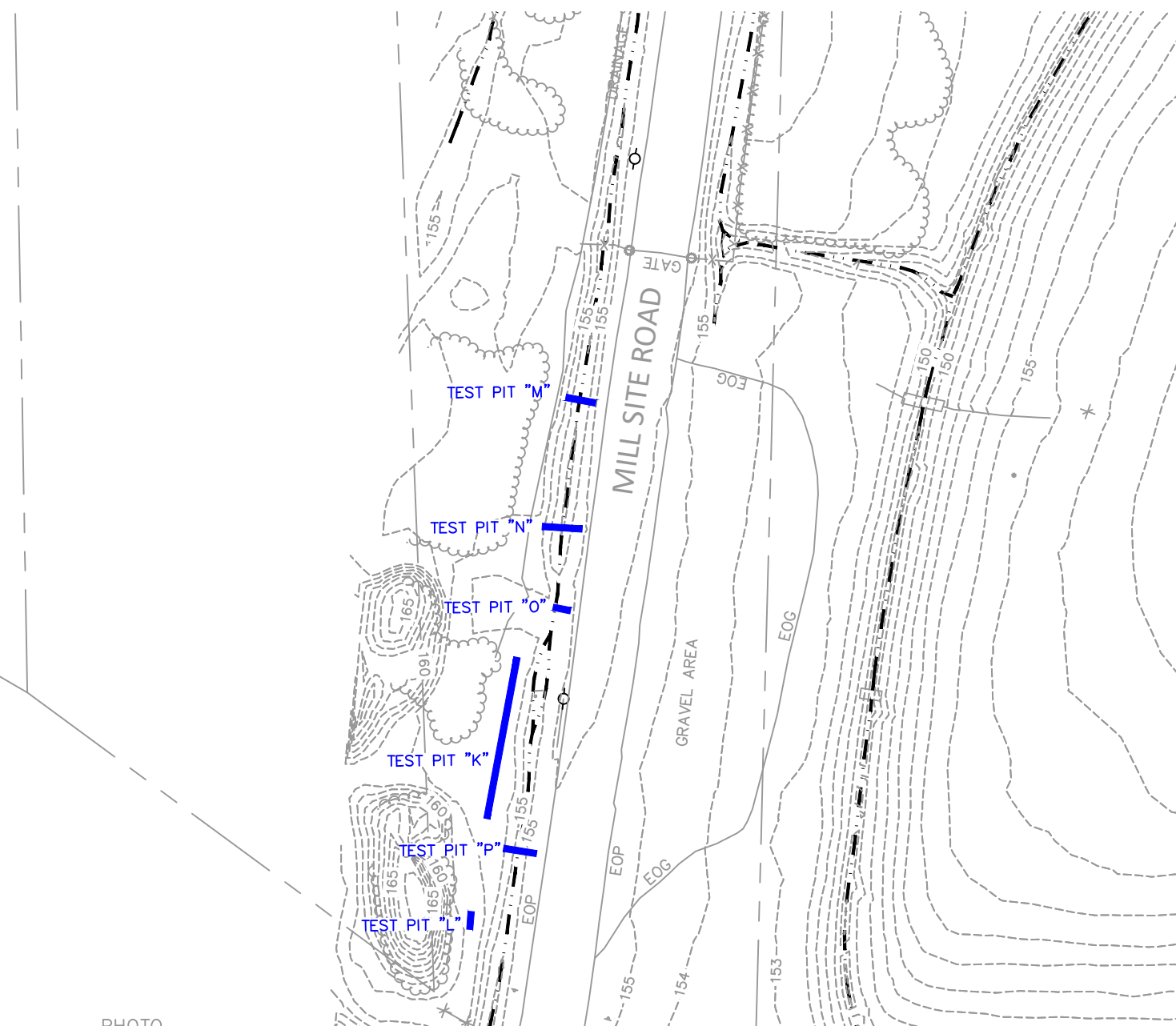


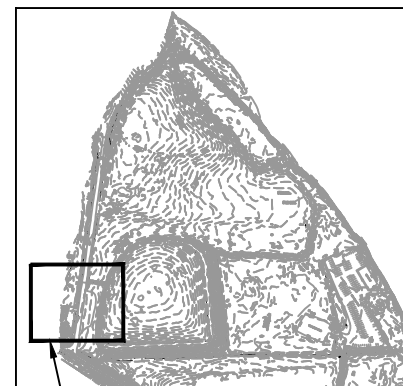
FIGURE 2-1 PLASTIC INVESTIGATION AREA AND DRAINAGE DITCH TEST PITS OLD MOREAU/NEW MOREAU MOREAU, NEW YORK



PHOTO

MILL SITE ROAD DREDGE SPOIL TEST PIT LOCATION MAP

SCALE: 1"=60'-0"



KEY PLAN

SCALE: 1"=1000'-0"

SEE MILL SITE
ROAD DREDGE
SPOIL TEST PIT
LOCATION MAP ON
THIS SHEET

LEGEND:

TEST PIT "M" 

DREDGE SPOIL TEST
PIT LOCATION

SCALE IN FEET



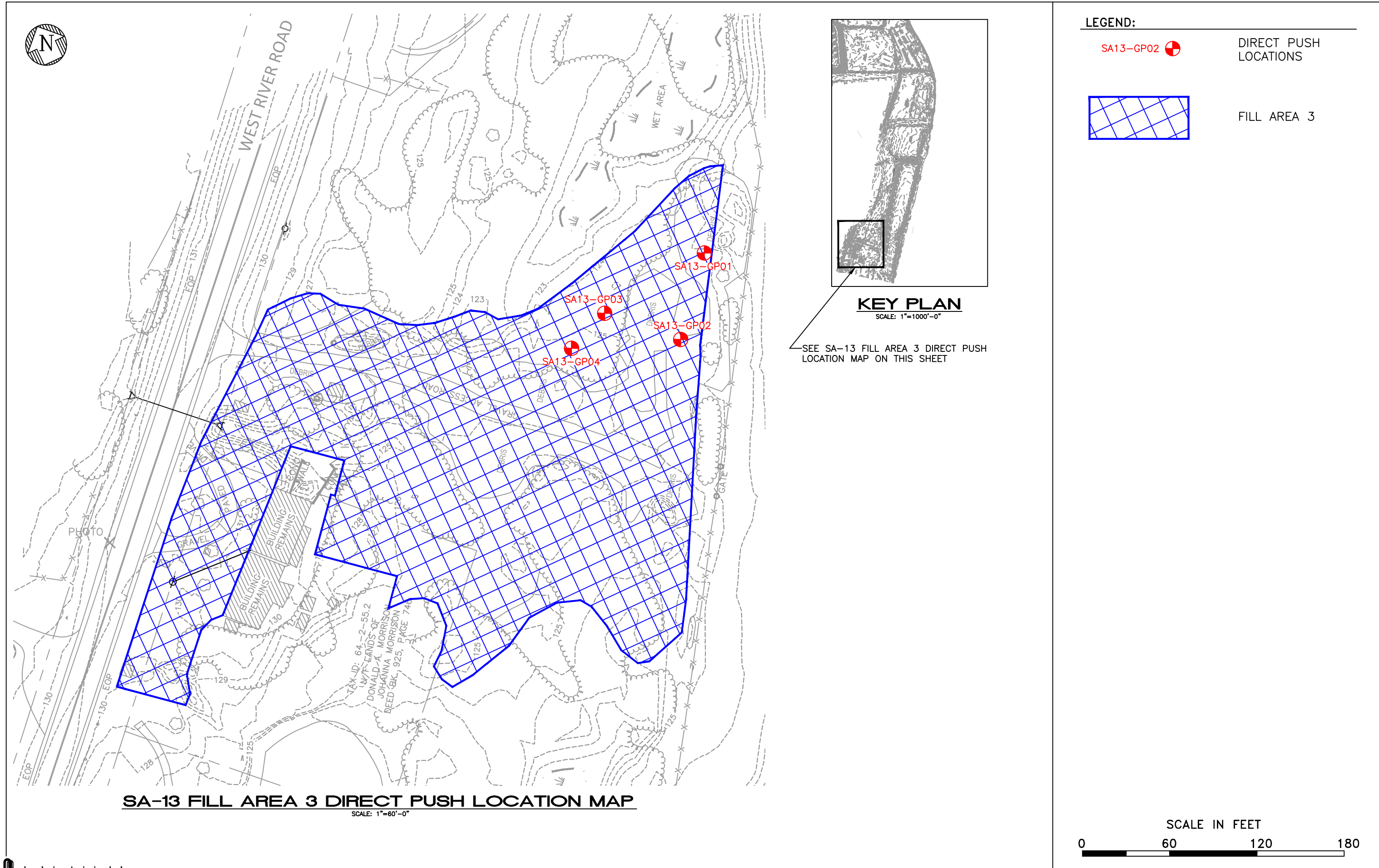


FIGURE 2-3 SA-13 FILL AREA 3 (MORRISON PROPERTY) SPECIAL AREA 13 MOREAU, NEW YORK

Tables

Table 2-1 Plastic Investigation Area Test Pit Summary

Trench ID	Approximate Length (ft)	Maximum Depth (ft bgs)	White Plastic Material Identified	Subsurface Description
A	80	6	Yes	Primarily brown silty sand sand fill to 6 ft bgs. A 14ft long/5ft thick section of white plastic like material identified 20-35 ft from north end of test pit.
B	15	3.5	Yes	Primarily brown silty sand sand fill to 3.5 ft bgs. A 7 foot long/1.5ft thick section of white plastic like material identified 1ft bgs from west end of test pit.
C	14	8	Yes	Primarily brown silty sand sand fill to 5.5 ft bgs. A 2.5-5.5+ ft thick section of white/black (burned?) plastic like material identified across bottom of test pit.
D	8	8	Yes	Primarily brown silty sand sand fill to 8 ft bgs. Thin layers of white plastic like material located 2.5-8ft bgs throughout test pit.
E	8	7	Yes	Primarily brown silty sand sand fill to 7 ft bgs. White plastic like material identified 0-4.5ft bgs on southeast half of test pit.
F	10	7.5	Yes	Primarily brown silty sand sand fill to 7.5 ft bgs. Up to 1ft thick layer of white plastic like material located 4-5ft bgs on eastern portion of test pit.
G	8	7	Yes	Primarily brown silty sand sand fill to 3ft bgs with a thin layer of dark organic material/PCB dredge material. White plastic like material 3ft bgs and deeper across bottom of test pit.
H	8	7.5	Yes	Primarily brown silty sand sand fill to 7.5 ft bgs. Approximately 1ft thick white plastic like material layer 4.5-6 ft bgs across test pit.
I	8	8	Yes	Primarily brown silty sand sand fill to 2.5 ft bgs. White plastic like material identified 2.5ft bgs and deeper across test pit.
J	8	2	Yes	Primarily brown silty sand sand fill to 2 ft bgs. White plastic like material identified starting 1.25ft bgs on southwest end of test pit (center of drainage ditch).
K	65	4	No	Primarily brown silty sand sand fill to 3.8ft bgs, with brown silty clay below 3.8 ft bgs.
L	7	2	No	Primarily brown silty sand sand fill to 2 ft bgs.
M	12	1.5	No	Primarily brown silty sand sand fill to 1.5 ft bgs.
N	14	2.5	No	Primarily brown silty sand sand fill to 2.5 ft bgs. Suspected PCB spoils 0.5-2.5 ft bgs at southern end of test pit (adjacent to Mill Site Rd).
O	8	3	No	Primarily brown silty sand sand fill to 3 ft bgs. Suspected PCB spoils 0.5-1 ft bgs at southern end of test pit (adjacent to Mill Site Rd).
P	15	2	No	Primarily brown silty sand sand fill to 2 ft bgs.

Key:

bgs = below ground surface

ft = feet

**Table 3-1 Summary of Positive Analytical Results for Groundwater Monitoring Well Sample
Old Moreau Dredge Spoil Disposal Area, Moreau, New York**

	Location ID:	MW-08	MW-08
	Sample Name:	MW-08	MW-08D
	Depth:	8 - 18 ft	8 - 18 ft
	Date:	04/16/21	04/16/21
Analyte			
PCBs by Method SW8082A (µg/l)			
PCB-1016 (Aroclor 1016)		0.18 U	0.18 U
PCB-1221 (Aroclor 1221)		0.18 U	0.18 U
PCB-1232 (Aroclor 1232)		0.18 U	0.18 U
PCB-1242 (Aroclor 1242)		0.18 U	0.18 U
PCB-1248 (Aroclor 1248)		0.18 U	0.18 U
PCB-1254 (Aroclor 1254)		0.25 U	0.25 U
PCB-1260 (Aroclor 1260)		0.25 U	0.25 U
PCB-1262 (Aroclor 1262)		0.25 U	0.25 U
PCB-1268 (Aroclor 1268)		0.25 U	0.25 U

Key:

Qualifiers

U = Not detected (method detection limit shown)

Other

µg/L = Micrograms per liter

"D" denotes field duplicate sample

Bold values denote positive hits.

**Table 3-2 Summary of Positive Analytical Results for Plastic-Like Material Sample
Old Moreau Dredge Spoil Disposal Area, Moreau, New York**

Analyte	Sample Name:	OM-PLASTIC-07232021	OM-PLASTIC-07232021
	Sample Type:	TCLP	SPLP
	Date:	07/23/21	07/23/21
Perfluorinated Compounds by LC/MS/MS E537(M) (ng/l)			
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid		0.41 U	0.41 U
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid		2.2 U	2.2 U
N-ethyl perfluorooctanesulfonamidoacetic acid		1.2 U	1.2 U
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		1.1 U	1.1 U
Perfluorobutanesulfonic acid (PFBS)		0.18 U	0.18 U
Perfluorobutanoic Acid		2.1 U	2.7 J
Perfluorodecanesulfonic acid (PFDS)		0.29 U	0.28 U
Perfluorodecanoic acid (PFDA)		0.28 U	0.28 U
Perfluorododecanoic acid (PFDoA)		0.49 U	0.49 U
Perfluoroheptanesulfonic acid (PFHpS)		0.41 J	0.17 U
Perfluoroheptanoic acid (PFHpA)		0.22 U	0.22 U
Perfluorohexanesulfonic acid (PFHxS)		0.51 U	0.51 U
Perfluorohexanoic acid (PFHxA)		0.52 U	0.57 J
Perfluorononanoic acid (PFNA)		0.24 U	0.24 U
Perfluorooctane Sulfonamide (FOSA)		0.88 U	0.87 U
Perfluorooctanesulfonic acid (PFOS)		0.48 U	0.48 U
Perfluorooctanoic acid (PFOA)		0.76 U	0.76 U
Perfluoropentanoic Acid (PFPeA)		0.44 U	0.44 U
Perfluorotetradecanoic acid (PFTA)		0.65 U	0.65 U
Perfluorotridecanoic Acid (PFTriA/PFTrDA)		1.2 U	1.2 U
Perfluoroundecanoic Acid (PFUnA)		0.98 U	0.98 U
Volatile Organic Compounds by GC/MS SW8260C (mg/l)			
1,1-Dichloroethene		0.0029 U	0.0029 U
1,2-Dichloroethane		0.0021 U	0.0021 U
Benzene		0.0041 U	0.0041 U
Carbon Tetrachloride		0.0027 U	0.0027 U

**Table 3-2 Summary of Positive Analytical Results for Plastic-Like Material Sample
Old Moreau Dredge Spoil Disposal Area, Moreau, New York**

Analyte	Sample Name:	OM-PLASTIC-07232021	OM-PLASTIC-07232021
	Sample Type:	TCLP	SPLP
	Date:	07/23/21	07/23/21
Chlorobenzene		0.0075 U	0.0075 U
Chloroform		0.0034 U	0.0034 U
Methyl Ethyl Ketone (2-Butanone)		0.013 U	0.013 U
Tetrachloroethylene (PCE)		0.0036 U	0.0036 U
Trichloroethylene (TCE)		0.0046 U	0.0046 U
Vinyl Chloride		0.0090 U	0.0090 U
Semi-Volatile Organic Compounds by GC/MS SW8270D (mg/l)			
1,4-Dichlorobenzene		0.0018 U	0.0018 U
2,4,5-Trichlorophenol		0.0019 U	0.0019 U
2,4,6-Trichlorophenol		0.0024 U	0.0024 U
2,4-Dinitrotoluene		0.0017 U	0.0017 U
2-Methylphenol (O-Cresol)		0.0016 U	0.0016 U
3-Methylphenol		0.0016 U	0.0016 U
4-Methylphenol (P-Cresol)		0.0014 U	0.0014 U
Hexachlorobenzene		0.0020 U	0.0020 U
Hexachlorobutadiene		0.0027 U	0.0027 U
Hexachloroethane		0.0023 U	0.0023 U
Nitrobenzene		0.0011 U	0.0011 U
Pentachlorophenol		0.0088 U	0.0088 U
Pyridine		0.0016 U	0.0016 U

Key:

Qualifiers

J = Estimated value

U = Not detected (method detection limit shown)

Other

ng/L = Nanograms per liter

mg/L = Milligrams per liter

Bold values denote positive hits.

Table 3-3 Summary of Positive Analytical Results for Direct-Push Soil Samples
SA-13 Dredge Spoil Disposal Area, Moreau, New York

Analyte	Location ID:	GP01	GP01	GP02	GP02	GP02	GP03	GP03	GP04	GP04	GP04
	Sample Name:	GP01-01	GP01-02	GP02-01	GP02-02	GP02-03	GP03-01	GP03-02	GP04-01	GP04-02	GPFD-01
	Depth:	18 - 24 ft	84 - 96 ft	12 - 18 ft	96 - 110 ft	130 - 140 ft	12 - 18 ft	30 - 36 ft	6 - 12 ft	18 - 24 ft	18 - 24 ft
	Date:	07/23/21	07/23/21	07/23/21	07/23/21	07/23/21	07/23/21	07/23/21	07/23/21	07/23/21	07/23/21
PCBs by Method SW8082A (mg/kg)											
PCB-1016 (Aroclor 1016)		0.27 U	0.052 U	0.056 U	0.064 U	0.041 U	0.040 U	0.050 U	0.45 U	0.049 U	0.053 U
PCB-1221 (Aroclor 1221)		0.27 U	0.052 U	0.056 U	0.064 U	0.041 U	0.040 U	0.050 U	0.45 U	0.049 U	0.053 U
PCB-1232 (Aroclor 1232)		0.27 U	0.052 U	0.056 U	0.064 U	0.041 U	0.040 U	0.050 U	0.45 U	0.049 U	0.053 U
PCB-1242 (Aroclor 1242)		0.27 U	0.052 U	0.056 U	0.064 U	0.041 U	0.040 U	0.050 U	0.45 U	0.049 U	0.053 U
PCB-1248 (Aroclor 1248)		14	0.052 U	6.2	0.064 U	0.041 U	4.0	0.050 U	13	0.049 U	0.053 U
PCB-1254 (Aroclor 1254)		0.65 U	0.13 U	0.13 U	0.15 U	0.098 U	0.096 U	0.12 U	1.1 U	0.12 U	0.13 U
PCB-1260 (Aroclor 1260)		0.65 U	0.13 U	0.13 U	0.15 U	0.098 U	0.096 U	0.12 U	1.1 U	0.12 U	0.13 U
PCB-1262 (Aroclor 1262)		0.65 U	0.13 U	0.13 U	0.15 U	0.098 U	0.096 U	0.12 U	1.1 U	0.12 U	0.13 U
PCB-1268 (Aroclor 1268)		0.65 U	0.13 U	0.13 U	0.15 U	0.098 U	0.096 U	0.12 U	1.1 U	0.12 U	0.13 U

Key:

Qualifiers

U = Not detected (method detection limit shown)

Other

mg/kg = Milligrams per kilogram

-- = Analyte not analyzed for

"FD" denotes field duplicate sample

Bold values denote positive hits.

A

Photo Log



Photo No.:	01	Direction of View:	South
Date:	04/08/2021	Subject: MW-08 with New Moreau landfill in background.	
Photographer:	E & E		



Photo No.:	02	Direction of View:	East-southeast
Date:	03/01/2021 05/13/2021	Subject: Clearing of trees and brush from Old Moreau white plastic-like area.	
Photographer:	E & E		



Photo No.:	03	Direction of View:	Southwest
Date:	05/13/2021	Subject: Test Pit A in Old Moreau white plastic-like area.	
Photographer:	E & E		



Photo No.:	04	Direction of View:	South
Date:	05/13/2021	Subject: Test Pit I in Old Moreau white plastic-like area.	
Photographer:	E & E		



Photo No.:	05	Direction of View:	NA
Date:	05/13/2021	Subject: Test Pit J through Moreau Drainage Ditch. Plastic-like material 1.5 feet below ground surface.	
Photographer:	E & E		



Photo No.:	06	Direction of View:	NA
Date:	05/13/2021	Subject: Up close photo of white plastic-like material.	
Photographer:	E & E		



Photo No.:	07	Direction of View:	NA
Date:	07/23/2021	Subject: Direct-push subsurface soil collected from SA-GP01.	
Photographer:	E & E		



Photo No.:	08	Direction of View:	Northwest
Date:	07/23/2021	Subject: Fill area 3 with SA-GP03 (straight ahead) and SA-GP04 (ahead and left).	
Photographer:	E & E		



Photo No.:	09	Direction of View:	East-Southeast
Date:	07/23/2021	Subject:	Fill area 3 with SA-GP02 located next to tree in front of boat.
Photographer:	E & E		



Photo No.:	10	Direction of View:	NA
Date:	07/23/2021	Subject:	Direct-push subsurface soil collected from SA-GP01.
Photographer:	E & E		

B

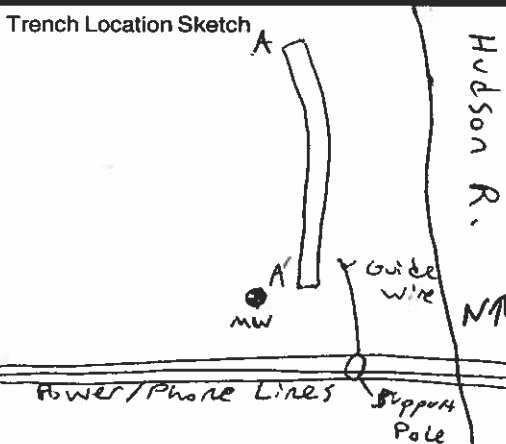
Field Data Forms

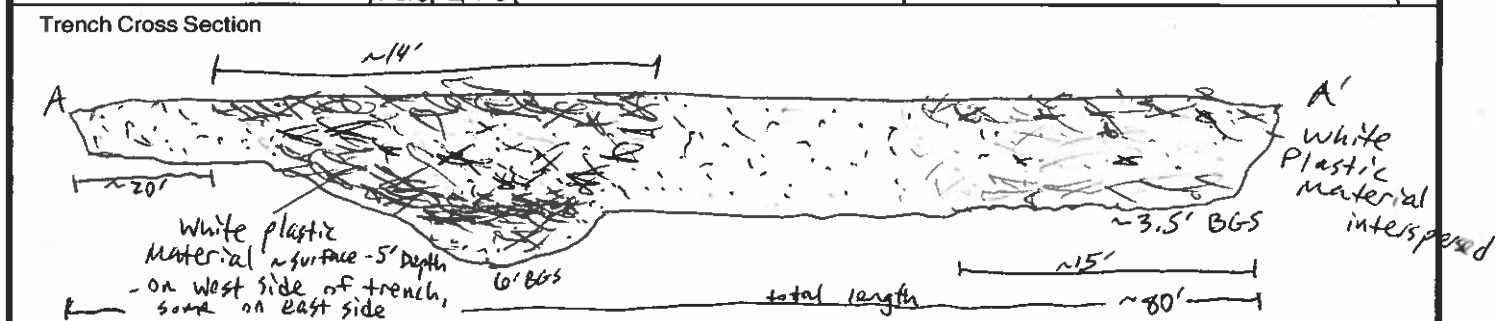
Monitoring Well Purge and Sample Log

Test Pit Trench Logs

TRENCH LOG

Sheet: 1 of 1

Project Site Name Old Moreau		Project Number EE1705007.0015.02		Trench Location Sketch 
Trench Number/Name A-A'				
Name of Inspector Chuck Porreca				
Date Started/Finished 5-13-2021		5-13-21		
Contractor LaBella		Equipment Bobcat E35 Excavator		
Final Length/Depth ~80'				
Trench Backfilled With Excavated material		IDW Generated ☐ Y ☒ N		

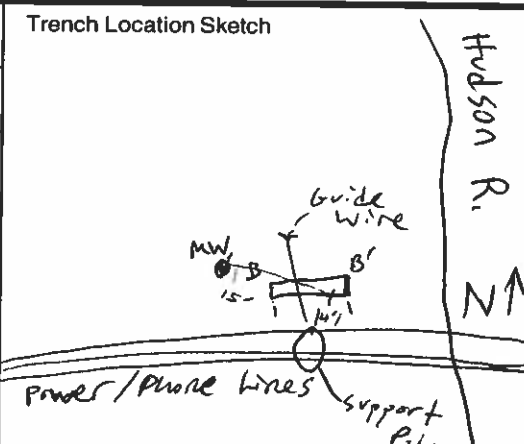


Depth (Feet)	Sample Number/Location ID	PID/FID (ppm)	Description/Comments
-1-			Φ-1' BGS Med. brown silty sand fill med. grain
-2-			~1-6' BGS Med./H. brown ^{silty} fine-grained sand fill w/ pockets/layers of white plastic material (noted extent in cross-section)
-3-			
-4-			
-5-			
-6-			
-7-			
-8-			
-9-			
-10-			

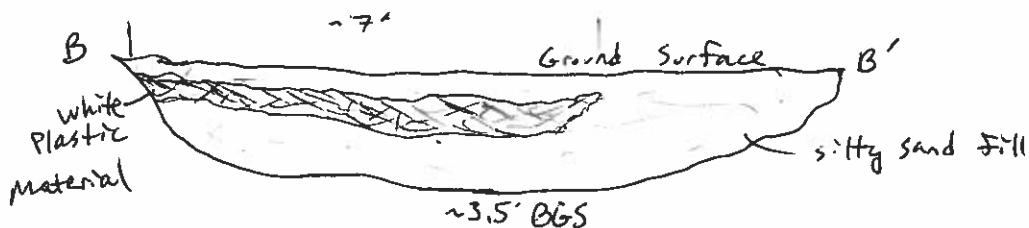
Signature: CAP

TRENCH LOG

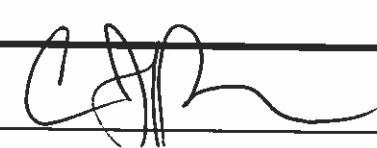
Sheet: 1 of 1

Project Site Name <u>Old Moreau</u>		Project Number <u>EE1705007.0015.02</u>	Trench Location Sketch 
Trench Number/Name <u>B-B'</u>			
Name of Inspector <u>Chuck Porreca</u>			
Date Started/Finished <u>5-13-21</u>	<u>5-13-21</u>		
Contractor <u>LaBella</u>	Equipment <u>Bobcat E35 Excavator</u>		
Final Length/Depth <u>~15' / ~3.5'</u>			
Trench Backfilled With <u>Excavated Material</u>		IDW Generated ☐ Y ☒ N	

Trench Cross Section

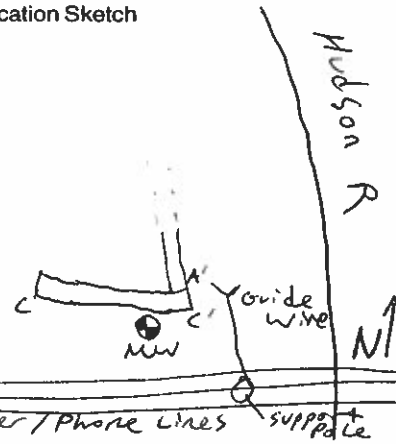
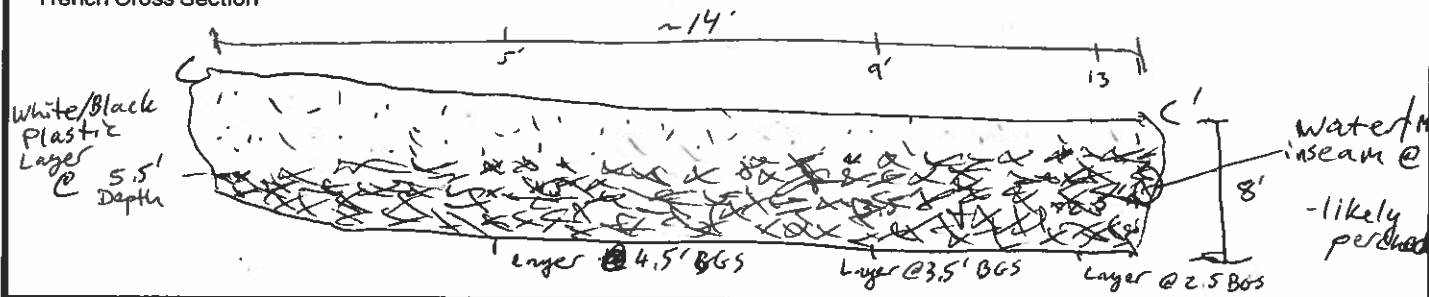


Depth (Feet)	Sample Number/Location ID	PID/FID (ppm)	Description/Comments
-1-			0-1' med. brown silty sand fill
-2-			1-2.5' BGS - white plastic material layer (~7' long from B)
-3-			2.5-3.5' BGS - Med./lt. brown silty sand fill fine (CP)
-4-			
-5-			
-6-			
-7-			
-8-			
-9-			
-10-			

Signature: 

TRENCH LOG

Sheet: 1 of 1

Project Site Name Old Moreau		Project Number EE1705007.0015.02		Trench Location Sketch 
Trench Number/Name C-C'				
Name of Inspector Chuck Porreca				
Date Started/Finished 5-13-21		Equipment Bobcat E35 Excavator		
Contractor La Bella		Final Length/Depth		
Trench Backfilled With Excavated Material		IDW Generated ☐ Y ☒ N		
Trench Cross Section 				
Depth (Feet)	Sample Number/Location ID	PID/FID (ppm)	Description/Comments	
-1-			Ø-2.5' @ C', Ø-5.5' @ C: med/dark brown silty med.-fine-grained sand	
-2-			fill w/some areas of darker, organic rich materials and also areas of gray/brown-tan materials	
-3-				
-4-			2.5-8' @ C', 5.5-8' @ C: white/Black plastic material layer mixed w/some fill	
-5-				
-6-			* Excavator reach does not extend deeper than 8'	
-7-				
-8-				
-9-				
-10-				

Signature: _____



TRENCH LOG

Sheet: 1 of 1

Project Site Name Old Moreau		Project Number EE1705007.0015.02		Trench Location Sketch
Trench Number/Name D - D'				
Name of Inspector Chuck Porreca				
Date Started/Finished 5-13-21		5-13-21		
Contractor LaBella		Equipment Bobcat E35 Excavator		
Final Length/Depth ~8' / ~8'				
Trench Backfilled With Excavated Material		IDW Generated ☐ Y ☒ N		
Trench Cross Section 				

Depth (Feet)	Sample Number/Location ID	PID/FID (ppm)	Description/Comments
-1-			~0-2.5' mostly med. brown silty med. fine sand fill w/ interspersed white plastic material
-2-			~2.5-8' BGS white Plastic Material w/ interspersed fill
-3-			
-4-			
-5-			
-6-			
-7-			
-8-			
-9-			
-10-			

Signature: _____

TRENCH LOG

Sheet: 1 of 1

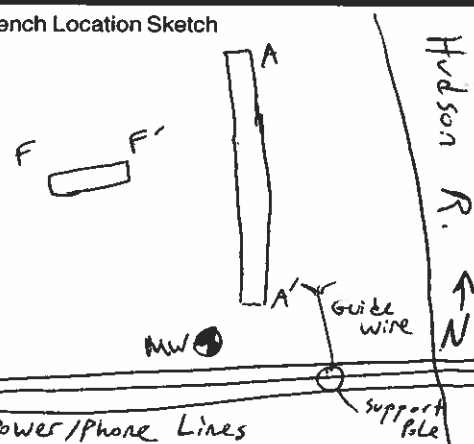
Project Site Name <u>Old Moreau</u>		Project Number <u>EE1705007.0015.02</u>		Trench Location Sketch
Trench Number/Name <u>E-E'</u>				
Name of Inspector <u>Chuck Porreca</u>				
Date Started/Finished <u>5-13-21</u>		<u>5-13-21</u>		
Contractor <u>LaBella</u>		Equipment <u>Bobcat E35 Excavator</u>		
Final Length/Depth <u>~8' / 7'</u>				
Trench Backfilled With <u>Excavated Material</u>		IDW Generated ☐ Y ☒ N		Power/Phone Lines
Trench Cross Section 				

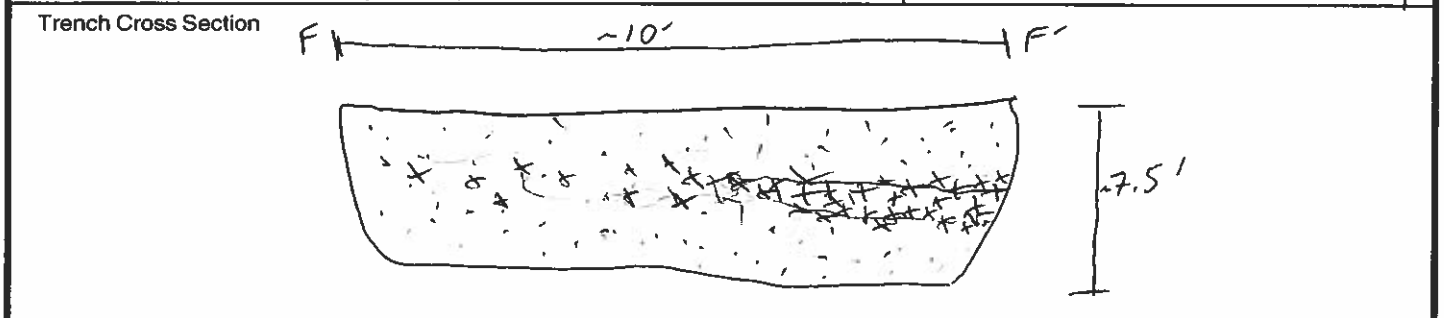
Depth (Feet)	Sample Number/Location ID	PID/FID (ppm)	Description/Comments
-1-			Ø ~4.5' BGS @ E': white Plastic material interspersed w/ med. brown silty
-2-			med. fine-grained sand fill; grades to fill w/ some interspersed white plastic material toward E.
-3-			
-4-			Ø ~8' @ E: med. brown silty med. fine-grained sand fill;
-5-			same for 4.5-8' @ E'
-6-			
-7-			
-8-			
-9-			
-10-			

Signature:

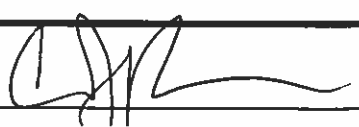
TRENCH LOG

Sheet: 1 of 1

Project Site Name <u>Old Moreau</u>		Project Number <u>EE1705007.0015.02</u>		Trench Location Sketch 
Trench Number/Name <u>F - F'</u>				
Name of Inspector <u>Chuck Porreca</u>				
Date Started/Finished <u>5-13-21</u>		<u>5-13-21</u>		
Contractor <u>LaBella</u>		Equipment <u>Bobcat E35 Excavator</u>		
Final Length/Depth <u>~10' / ~7.5'</u>				
Trench Backfilled With <u>Excavated Material</u>		IDW Generated ☐ Y ☒ N		

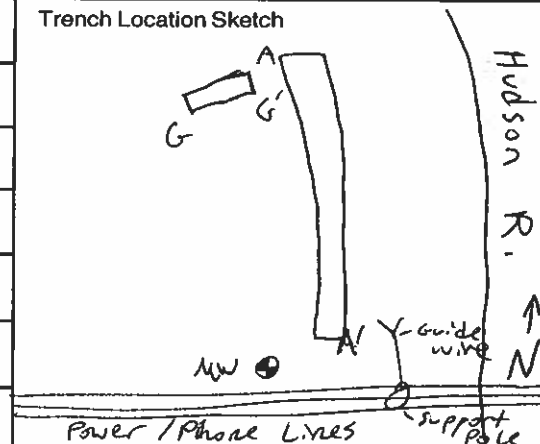
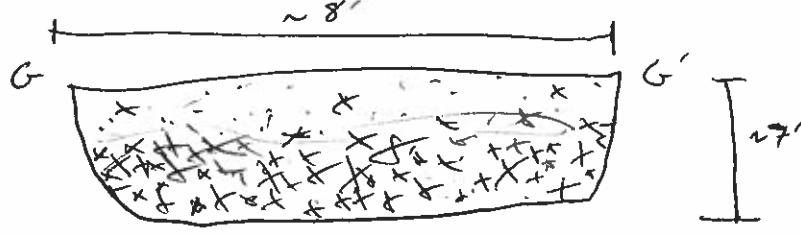


Depth (Feet)	Sample Number/Location ID	PID/FID (ppm)	Description/Comments
-1-			Ø ~ 4' @ F' Med. brown silty med. - BGS fine grained sand fill w/+rare
-2-			white plastic material interspersed + dark brown/black streaks of
-3-			possibly organic materials or dredged PCB spoils
-4-			
-5-			4-5' BGS @ F' white plastic material, fades from F' toward F
-6-			5~7.5' Med. brown /lt. brown silty med. - fine-grained sand fill w/
-7-			some white plastic material interspersed
-8-			
-9-			
-10-			

Signature: 

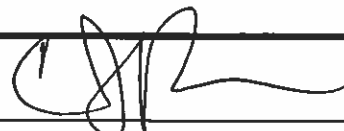
TRENCH LOG

Sheet: 1 of 1

Project Site Name <u>Old Moreau</u>		Project Number <u>EE1705007.0015.02</u>		Trench Location Sketch 
Trench Number/Name <u>G-G'</u>				
Name of Inspector <u>Chuck Porreca</u>				
Date Started/Finished <u>5-13-21</u>		<u>5-13-21</u>		
Contractor <u>LaBella</u>		Equipment <u>Bobcat E35 Excavator</u>		
Final Length/Depth <u>~8' / ~7'</u>				
Trench Backfilled With <u>Excavated Material</u>		IDW Generated ☐ Y ☒ N		
Trench Cross Section 				

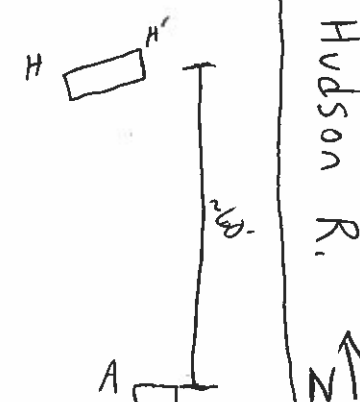
Depth (Feet)	Sample Number/Location ID	PID/FID (ppm)	Description/Comments
-1-			0-3' Med. brown silty med.-fine-grained sand fill w/some dark brown/black streaks - possibly organic matter or dredged PCB spoils, some white plastic material interspersed
-2-			
-3-			
-4-			3-7' BGS White Plastic material w/fill interspersed
-5-			
-6-			
-7-			
-8-			
-9-			
-10-			

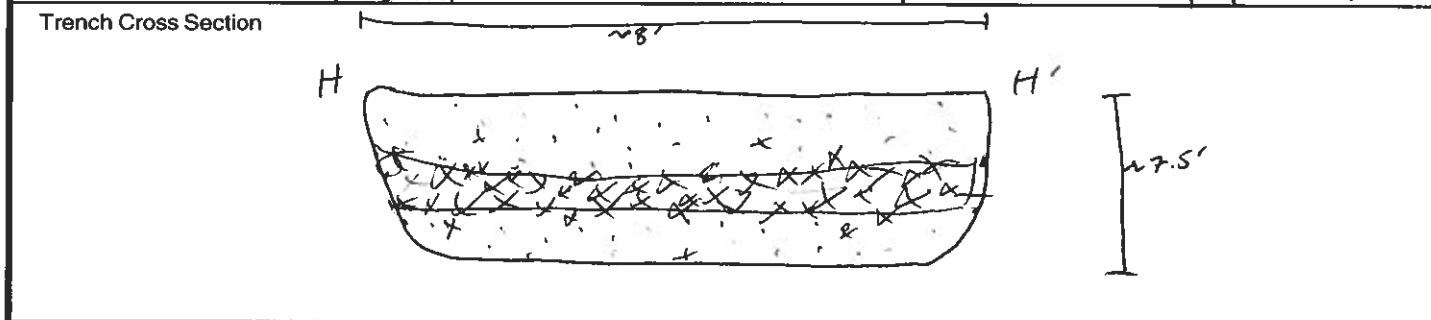
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TRENCH LOG

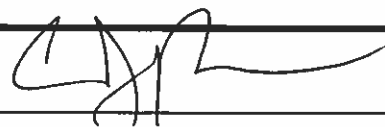
Sheet: 1 of 1

Project Site Name <u>Old Moreau</u>		Project Number <u>EE1705007.0015.02</u>		Trench Location Sketch 
Trench Number/Name <u>H - H'</u>				
Name of Inspector <u>Chuck Porreca</u>				
Date Started/Finished <u>5-13-21</u>		<u>5-13-21</u>		
Contractor <u>LaBella</u>		Equipment <u>Bobcat E35 Excavator</u>		
Final Length/Depth <u>~8' / ~7.5'</u>				
Trench Backfilled With <u>Excavated Material</u>		IDW Generated ☐ Y ☒ N		



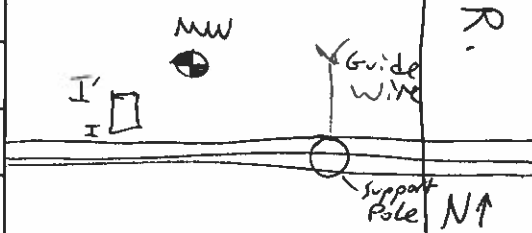
Depth (Feet)	Sample Number/Location ID	PID/FID (ppm)	Description/Comments
-1-			Ø ~4.5' BGS @ H', ~5.5' BGS @ H'; Med. brown silty med.-fine-grained sand fill w/interspersed dark brown/black possibly organic or dredged PCB spoils material streaks and trace white plastic material
-2-			
-3-			
-4-			
-5-			~4.5 ~ 5.5' BGS @ H' } white Plastic Material
-6-			~5 ~ 6' BGS @ H' } w/fill
-7-			~5.5 @ H', ~6' @ H' ~ 7.5' BGS - med./lt. brown silty med.-fine-grained sand fill w/trace white plastic material
-8-			
-9-			
-10-			

Signature: _____

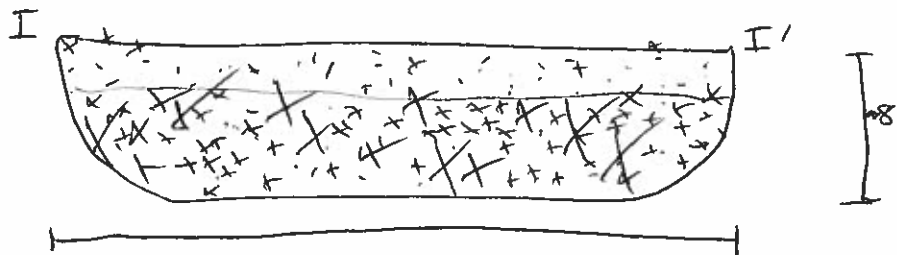


TRENCH LOG

Sheet: 1 of 1

Project Site Name Old Moreau		Project Number EE1705007.0015.02		Trench Location Sketch 
Trench Number/Name I - I'				
Name of Inspector CHUCK PORRECA				
Date Started/Finished 5-13-21		5-13-21		
Contractor La Bella		Equipment Bobcat E35 Excavator		
Final Length/Depth ~ 8' / ~ 8'				
Trench Backfilled With Excavated Material		IDW Generated ☐ Y ☒ N		

Trench Cross Section



Depth (Feet)	Sample Number/Location ID	PID/FID (ppm)	Description/Comments
-1-			0-2.5' BGS- Med brown silty med.-grained sand fill
-2-			
-3-			2.5-8' BGS- White Plastic Material w/trace fill
-4-			
-5-			* Excavator reach no greater than 8'
-6-			** Plastic Material layer nearly entirely composed of plastic material
-7-			
-8-			
-9-			
-10-			

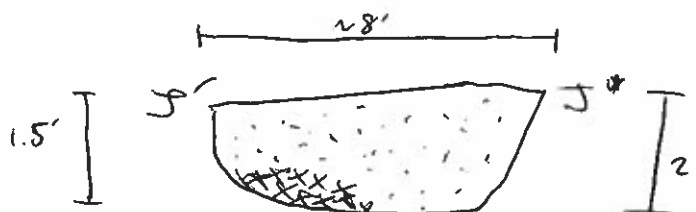
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TRENCH LOG

Sheet: 1 of 1

Project Site Name <u>Old Moreau</u>		Project Number <u>EE1705007.0015.02</u>		Trench Location Sketch
Trench Number/Name <u>J - J'</u>				
Name of Inspector <u>Chuck Porreca</u>				
Date Started/Finished <u>5-13-21</u>		<u>5-13-21</u>		
Contractor <u>La Bella</u>		Equipment <u>Bobcat E35 Excavator</u>		
Final Length/Depth <u>~8' / ~2'</u>				
Trench Backfilled With <u>Excavated Material</u>		IDW Generated ☐ Y ☒ N		

Trench Cross Section



Depth (Feet)	Sample Number/Location ID	PID/FID (ppm)	Description/Comments
-1-			Ø ~ 1.25' @ J', ~ 2' @ J - med. brown
-2-			fine sandy silt
-3-			~ 1.25 - 1.5 @ J' - white plastic material
-4-			
-5-			
-6-			
-7-			
-8-			
-9-			
-10-			

Signature: _____

[Handwritten Signature]

TRENCH LOG

Sheet: 1 of 1

Project Site Name <u>Old Moreau</u>		Project Number <u>EE1705007.0015.02</u>		Trench Location Sketch
Trench Number/Name <u>K-K'</u>				
Name of Inspector <u>Chuck Porreca</u>				
Date Started/Finished <u>5-14-21</u>		<u>5-14-21</u>		
Contractor <u>LaBella</u>		Equipment <u>Bobcat E35 Excavator</u>		
Final Length/Depth <u>~65' / ~2.5-4'</u>				
Trench Backfilled With <u>Excavated Material</u>		IDW Generated ☐ Y ☒ N		
Trench Cross Section 				
Depth (Feet)	Sample Number/Location ID	PID/FID (ppm)	Description/Comments	
-1-			0-1' BGS - Med. brown silty fine sand w/some gravels and asphalt material/chunks, some darker, organic matter bands	
-2-				
-3-			1-2 1/2 ~ 3.8' BGS - med./lt. brown silty fine sand fill	
-4-			~3.8-4' BGS - silty clay, med./lt. brown	
-5-				
-6-				
-7-				
-8-				
-9-				
-10-				

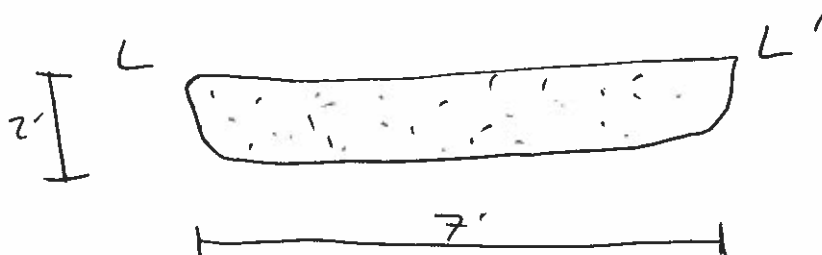
Signature: _____

TRENCH LOG

Sheet: 1 of 1

Project Site Name Old Moreau		Project Number EE1705007	Trench Location Sketch o = Telephone Pole
Trench Number/Name L - L'			
Name of Inspector Chuck Porreca			
Date Started/Finished 5-14-21	5-14-21		
Contractor La Bella	Equipment Bobcat E35 Excavator		
Final Length/Depth ~7' / ~2'			
Trench Backfilled With Excavated Materials		IDW Generated ☐ Y ☒ N	

Trench Cross Section



Depth (Feet)	Sample Number/Location ID	PID/FID (ppm)	Description/Comments
-1-			0-2' BGS Med./Lt. brown silty fine-grained sand fill
-2-			
-3-			
-4-			
-5-			
-6-			
-7-			
-8-			
-9-			
-10-			

Signature: CAPR



TRENCH LOG FOR

M-M'

Project Name	Old Moreau
Job Number	EE1705007.0015.02
Site Location	Moreau, NY
Date Started/Finished	5-14-21
Contractor	La Bella
Equipment	Bobcat E35 Excavator
Logger's Name	Chuck Porreca
Final Length/Depth	~12' / ~1.5'
Photos Taken	✓
Description Key Trace 0 - 10% Few 10 - 20% Little 20 - 35% Some 35 - 50% Most > 50%	

Trench Location Sketch
Trench Cross-Section

Depth (Feet)	Sample Number	HNU / OVA (ppm)	Description / Comments
0			Ø-1.5' BGS - Med./H. brown silty sand fill
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			



TRENCH LOG FOR

N-N-

Project Name	Old Moreau
Job Number	EE1705007.0015.02
Site Location	Moreau, NY
Date Started/Finished	5-14-21
Contractor	La Bella
Equipment	Bobcat E35 Excavator
Logger's Name	Chuck Porreca
Final Length/Depth	~14' / ~1-2.5'
Photos Taken	✓
Description Key Trace 0 - 10% Few 10 - 20% Little 20 - 35% Some 35 - 50% Most > 50%	

Trench Location Sketch
Trench Cross-Section

Depth (Feet)	Sample Number	HNU / OVA (ppm)	Description / Comments
0			0-2.5' Med./lt. brown silty BGS Fine-grained sand Fill CP wet /saturated moist
1			
2			~0.5~2.5' Suspected PCB spoils
3			From N' extending ~1' towards N
4			- Dark brown/black shaley pieces/material
5			
6			
7			
8			
9			
10			



TRENCH LOG FOR

0-0'

Project Name	Old Moreau
Job Number	EE 1705007-0015.02
Site Location	Moreau, NY
Date Started/Finished	5-14-21
Contractor	LaBella
Equipment	Bobcat E35 Excavator
Logger's Name	Chuck Porreca
Final Length/Depth	~8' / ~2 1/2 - 3'
Photos Taken	✓
Description Key Trace 0 - 10% Few 10 - 20% Little 20 - 35% Some 35 - 50% Most > 50%	

Trench Location Sketch
Trench Cross-Section

Depth (Feet)	Sample Number	HNU / OVA (ppm)	Description / Comments
0			0-3' BGS - Med./lt. brown silty fine-grained sand fill
1			
2			
3			~0.5-1' BGS possibly suspect PCB spoils material - Darker, coarser-grained material
4			
5			
6			
7			
8			
9			
10			



TRENCH LOG FOR

P-P-

Project Name	Old Moreau
Job Number	EE1705007.0015.02
Site Location	Moreau, NY
Date Started/Finished	5-14-21
Contractor	La Bella
Equipment	Bobcat E35 Excavator
Logger's Name	Chuck Porreca
Final Length/Depth	~15' / ~1-2'
Photos Taken	✓
Description Key	
Trace	0 - 10%
Few	10 - 20%
Little	20 - 35%
Some	35 - 50%
Most	> 50%

Trench Location Sketch	
Trench Cross-Section	

Hand-drawn sketch of the trench location and cross-section. The location sketch shows a railroad (R.R.), a mound, a driveway (Dr.), a parking lot, a gate, a fence, a telephone pole, and a road (P' Road). The cross-section shows a curved trench profile with labels for 'P' and 'P' Road' and 'Fill/subbase mix'.

Depth (Feet)	Sample Number	HNU / OVA (ppm)	Description / Comments
0			Ø ~ 2' BGS - Med.-lt. brown silty fine-grained sand fill - From P' ~ 2' extended towards P includes some road subbase mix GR
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Geoprobe Soil Logs



DATE <u>7/23/21</u>		SITE NAME / LOCATION <u>SA-13 Morrison Property</u>																																																																																																																				
E & E GEOLOGIST <u>Brian Cervi</u>		E & E PROJECT ID <u>EE1705007.0016</u>																																																																																																																				
SUBCONTRACTOR <u>LaBella Associates</u>		ELEVATION _____ Datum _____																																																																																																																				
DRILLER <u>Mike</u>		LOCATION COORDINATES _____ N / _____ E																																																																																																																				
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Comments <u>Samples collected at : 18"-24" GP01-01 at 10:50</u> <u>7'-8' GP01-02 at 11:00</u>																																																																																																																						
Method of Completion / Backfill: _____																																																																																																																						
Signature: _____																																																																																																																						



DATE <u>7/23/24</u>		SITE NAME / LOCATION <u>SA-13 Morrison Property</u>	
E & E GEOLOGIST <u>Brian Cervi</u>		E & E PROJECT ID <u>EE1705007.0016</u>	
SUBCONTRACTOR <u>LaBella Associates</u>		ELEVATION _____ Datum _____	
DRILLER <u>Mike</u>		LOCATION COORDINATES _____ N / _____ E	

WATER LEVEL DATA				TYPE OF DRILL RIG <u>Geoprobe</u>
DATE	TIME	WATER LEVEL	REF. PT.	
				NUMBER OF CORES COLLECTED _____
				SOIL SAMPLING METHOD <u>Macro-Core</u>
				FINISHED TOTAL DEPTH _____

Depth (ft. BGS)	SAMPLE INFORMATION					SOIL DESCRIPTION / COMMENTS
	Core/SS No.	Blow Count	Recovery (ft)	PID/FID (ppm)	Lab/Field Sample ID & Analysis	
1		N/A	3.9'			0"-10" Brown sandy topsoil, some organics, trace silt, moist
2			786	Open	GP02-01	10"-22" Black / gray silty sand, fine gravel, trace wood, moist, suspected spoils
3						22"-46" Brown / black silty sand, fine gravel, moist to very moist
4						
5			4.2	Open		0"-48" Black / gray sandy silt grading to silty sand, trace gravel, trace wood, wet, suspected spoils.
6			843			
7						48"-52" Brown / gray silty sand, trace gravel, trace wood, wet,
8					GP02-02	
9						
10			4.4	Open		0"-28" Black / gray silty sand, trace gravel, trace wood, wet
11			886		GP02-03	
12						28"-46" Brown sand, trace silt, trace gravel, wet
13						46"-53" Black silty sand, trace gravel, wet
14						
15						
16						

Comments: Samples collected at: 12"-18" GP02-01; 1145
8'-9' GP02-02; 1155
11-12' GP02-03; 1210

Method of Completion / Backfill: _____

Signature: _____



DATE	<u>7/23/21</u>			SITE NAME / LOCATION	<u>SA-13 Morrison Property</u>
E & E GEOLOGIST	<u>Brian Cervi</u>			E & E PROJECT ID	<u>EE1705007.001G</u>
SUBCONTRACTOR	<u>LaBella Associates</u>			ELEVATION	<u>Datum</u>
DRILLER	<u>Mike</u>			LOCATION COORDINATES	<u>N / E</u>

WATER LEVEL DATA				TYPE OF DRILL RIG	<u>Geoprobe</u>
DATE	TIME	WATER LEVEL	REF. PT.	NUMBER OF CORES COLLECTED	
				SOIL SAMPLING METHOD	<u>Macro-Core</u>
				FINISHED TOTAL DEPTH	

Depth (ft. BGS)	SAMPLE INFORMATION					SOIL DESCRIPTION / COMMENTS
	Core/SS No.	Blow Count	Recovery (ft)	PID/FID (ppm)	Lab/Field Sample ID & Analysis	
1		N/A	3.2'	0ppm	6P04-01	0"-14" Black/gray silty sand, few organic, few gravel, slightly moist, potential spoils
2			64%		6P04-02	14"-28" Brown/tan sandy silt, trace gravel
3						
4						28"-38" Brown/gray clayey silt, trace sand, moist, no plasticity
5			3.8'	0ppm		0"-15" Brown/gray clayey silt, trace f sand, very moist, low to no plasticity.
6			76%			16"-45" Gray f sand/silt, very moist / wet.
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

Comments	<u>Samples collected at: 0.5-1.0' 6P04-01; 1320</u> <u>1.5-2.0' 6P04-02; 1325</u> <u>1.5-2.0' GPFD-01; 1330 (field dup of 6P04-02)</u>				
Method of Completion / Backfill:					
Signature:					

C

Laboratory Reports and Data Usability Reports

Data Usability Summary Report	Project: Hudson Old Moreau
Date Completed: September 24, 2021	Completed by: Eridania Marte

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation SOP

Specific criteria for QC limits were obtained from the Site Assessment Sampling and Analysis Plan. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0015.02	480-183487-1	Test America, Buffalo

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
480-183487-1	WG	OLD MOREAU MW-08	480-183487-1	04/16/2021 14:58		
480-183487-1	WG	OLD MOREAU MW-08D	480-183487-2	04/16/2021 14:58		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	# of Samples	Sample Type
480-183487-1	WG	SW8082A	Polychlorinated Biphenyls by GC	2	N/FD

Data Usability Summary Report	Project: Hudson Old Moreau
Date Completed: September 24, 2021	Completed by: Eridania Marte

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs Equipment Blank - 1/ set of samples per day for perfluorinated compounds and 1/ set per location for all other samples?	The associated sample was collected as a confirmation sample to determine if PCB contamination was present in the area of concern. Per the Sampling Analysis Plan, field QC was not required; however, field duplicate was still collected to confirm precision. 1 FD per 1 samples. 0 MS/MSD per 1 samples. No trip blank required. 0 rinsate blank.
Case narrative present and complete?	Yes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- MS/MSD Outside Limits (Table 4)
- LCS and ICV/CCV Outside Limits (Table 5)
- Reanalysis Results (Table 6)
- Field Duplicate Results (Table 7)

Go to [Tables](#) List

Data Usability Summary Report	Project: Hudson Old Moreau
Date Completed: September 24, 2021	Completed by: Eridania Marte

PCBs by GC/ECD – Method 8082A	
Description	Notes and Qualifiers
Are any compounds present in method and field blanks as noted on Table 2?	No.
For samples, if results are < 5 times the blank then "U" flag data.	Not applicable.
Are surrogates for method blanks and LCS within limits (see Table 4)?	Yes.
Are surrogates for samples and MS/MSD within limits (see Table 4)? Matrix effects should be established.	No. Surrogates tetrachloro-m-xylene and decachlorobiphenyl were recovered outside of the acceptance criteria for sample OLD MOREAU MW-08D. The associated sample results were non-detected; therefore, no qualification was made.
Is laboratory QC frequency one blank and LCS with each batch and one MS/MSD per 20 samples?	Level II report provided; therefore, unable to determine frequency of MS/MSD.
Are MS/MSD within QC criteria (see Table 3)? If out and LCS is compliant, then J flag positive data in original sample due to matrix.	MS/MSD was not submitted with associated SDG.
Is LCS within QC criteria (see Table 5a)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.
Is initial calibration for target compounds <15 %RSD or curve fit? Is initial calibration verification <25%D (see Table 5b)?	Level II report provided; therefore, unable to determine and no issues noted in report's case narrative.
Is continuing calibration for target compounds < 20%D (see Table 5b)?	Level II report provided; therefore, unable to determine and no issues noted in report's case narrative.
Were any samples re-analyzed or diluted (see Table 7)? For any sample re-analysis and dilutions is only one reportable result by flagged?	No.
Spot check retention time windows and second column confirmations as complete.	Yes.
Do field duplicate results show good precision for all compounds (see Table 8)?	All samples results were non-detect; therefore, precision could not be determined.

Summary of Findings
None

Data Usability Summary Report	Project: Hudson Old Moreau
Date Completed: September 24, 2021	Completed by: Eridania Marte

Table 2 - List of Positive Results for Blank Samples

Table 2A - List of Samples Qualified for Method Blank Contamination

Table 2B - List of Samples Qualified for Field Blank Contamination

Table 3 - List of Samples with Surrogates outside Control Limits

Method	Sample ID	Sample Type	Analyte	Rec . %	Low Limit	High Limit	Dilution Factor	Sample Qualifier
SW8082A	OLD MOREAU MW-08D	FD	Tetrachloro-m-xylene	128	39	121	1	None – High & ND
SW8082A	OLD MOREAU MW-08D	FD	Decachlorobiphenyl	126	19	120	1	None – High & ND

Table 3A – List of Samples with Isotope Dilution Recovery outside Control Limits

Table 4A – List of MS/MSD Recoveries outside Control Limits

Table 4B – List of MS/MSD RPDs outside Control Limits

Table 5A – List of LCS Recoveries outside Control Limits

Table 5B – List of ICV/CCV Recoveries outside Control Limits

Table 6 – Samples that were Re-analyzed

Table 7A – Summary of Field Duplicate Results

Data Usability Summary Report	Project: Hudson Old Moreau
Date Completed: September 24, 2021	Completed by: Eridania Marte

Acronym List and Table Key:

CCV	= continuing calibration verification
CCVL	= continuing calibration verification low
COC	= chain of custody
DUSR	= data usability summary report
FD	= field duplicate
GC/MS	= gas chromatography / mass spectrometry
ICB	= initial calibration blank
ICS	= interference check standard
ICV	= initial calibration verification
LCS	= laboratory control sample
MB	= method blank
MDL	= method detection limit
µg/L	= micrograms per liter
MS	= matrix spike
MSD	= matrix spike duplicate
N	= normal (field) sample
ND	= not detected
NYSDEC	= New York State Department of Environmental Conservation
PQL	= practical quantitation limit
QA	= quality assurance
QAPP	= quality assurance project plan
QC	= quality control
RB	= equipment rinse blank
RPD	= relative percent difference
RL	= reporting limit
SDG	= sample delivery group
TB	= trip blank
TRG	= target compound
%D	= percent difference
%RSD	= percent relative standard deviation

Data Usability Summary Report	Project: Hudson Old Moreau
Date Completed: September 24, 2021	Completed by: Eridania Marte

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation SOPs

Specific criteria for QC limits were obtained from the Site Assessment Sampling and Analysis Plan. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0015.02	480-187617-1	Test America, Buffalo

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
480-187617-1	WL	OM-PLASTIC-07232021	480-187617-1	07/23/2021 09:10		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	# of Samples	Sample Type
480-187617-1	WL	E537(M)	TCLP - Perfluorinated Compounds by LC/MS/MS	1	N
480-187617-1	WL	E537(M)	SPLP - Perfluorinated Compounds by LC/MS/MS	1	N
480-187617-1	WL	SW8260C	TCLP - Volatile Organic Compounds by GC/MS	1	N
480-187617-1	WL	SW8260C	SPLP - Volatile Organic Compounds by GC/MS	1	N
480-187617-1	WL	SW8270D	TCLP - Semivolatile Organic Compounds by GC/MS	1	N
480-187617-1	WL	SW8270D	SPLP - Semivolatile Organic Compounds by GC/MS	1	N

Data Usability Summary Report	Project: Hudson Old Moreau
Date Completed: September 24, 2021	Completed by: Eridania Marte

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs Equipment Blank - 1/ set of samples per day for perfluorinated compounds and 1/ set per location for all other samples?	Sample associated with SDG was collected from plastic material to confirm plastic was not leaching contamination to the surrounding area. No field QC required for associated sample.
Case narrative present and complete?	Yes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- MS/MSD Outside Limits (Table 4)
- LCS and ICV/CCV Outside Limits (Table 5)
- Reanalysis Results (Table 6)
- Field Duplicate Results (Table 7)

Go to [Tables](#) List

Data Usability Summary Report	Project: Hudson Old Moreau
Date Completed: September 24, 2021	Completed by: Eridania Marte

Volatile Organic Compounds by GC/MS – Method 8260C	
Description	Notes and Qualifiers
Any compounds present in method, trip, or, field blanks (see Table 2)?	Yes. 2-Butanone (MEK) was detected in method blank 480-590596/1-A associated with SPLP leach batch 590596.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Sample result for 2-Butanone (MEK) for OM-PLASTIC-07232021 was less than 5x the blank contamination. The sample result was U qualified as non-detect and PQL was elevated to sample result.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). If not, were all samples reanalyzed for VOCs? Matrix effects should be established.	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Level II report provided; therefore, unable to determine frequency of MS/MSD.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	MS/MSD was not submitted with associated SDG.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit?	Level II report provided; therefore, unable to determine and no issues noted in report's case narrative.
Is %D in the continuing calibration for target compounds less than method specifications?	Level II report provided; therefore, unable to determine and no issues noted in report's case narrative.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	Sample OM-PLASTIC-07232021 was diluted due to the nature of the TCLP and SPLP sample matrix.
For TICs are there any system related compounds that should not be reported?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	Not applicable.

Semi-volatile Organic Compounds by GC/MS – Method 8270D	
Description	Notes and Qualifiers
Any compounds present in method, trip, or, field blanks (see Table 2)?	No.
For samples, if results are < 5 times the blank or < 10 times the blank for common laboratory contaminants, then "U" flag data. Qualification also applies to TICs.	Not applicable.

Data Usability Summary Report	Project: Hudson Old Moreau
Date Completed: September 24, 2021	Completed by: Eridania Marte

Semi-volatile Organic Compounds by GC/MS – Method 8270D	
Description	Notes and Qualifiers
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3). If not, were all samples reanalyzed? Matrix effects should be established.	Yes.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Level II report provided; therefore, unable to determine frequency of MS/MSD.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	MS/MSD was not submitted with associated SDG.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria? If not was sample re-analyzed to establish matrix (see Table 6)?	Yes.
Is initial calibration for target compounds <20 %RSD or curve fit?	Level II report provided; therefore, unable to determine and no issues noted in report's case narrative.
Is %D in the continuing calibration for target compounds less than method specifications?	Level II report provided; therefore, unable to determine and no issues noted in report's case narrative.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
For TICs are there any system related compounds that should not be reported?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	Yes.

Perfluorinated Compounds by LC/MS/MS – Method E537(M)	
Description	Notes and Qualifiers
Any compounds present in method, trip, or, field blanks (see Table 2)?	Yes. Perfluorobutanoic acid (PFBA) was detected in method blank 320-510957/1-C associated with TCLP leach batch 510957.
For samples, if results are < 5 times the blank contaminants, then "U" flag data.	Sample result for PFBA for OM-PLASTIC-07232021 was less than 5x the blank contamination. The sample result was U qualified as non-detect and PQL was elevated to sample result.
Are surrogates for method blanks and LCS within limits?	Yes.
Are surrogates for samples and MS/MSD within limits? (See Table 3).	Yes.
Are surrogates/Isotope Dilution within limits? (See Table 3A).	Isotope Dilution Analyte (IDA) recovery for PFOA, PFNA, PFDA, PFUnA, C3PFBS, PFOS, PFOSA, d3NMFOS, d5NEFOS, M262FTS, and M282FTS were above the method recommended limit for TCLP

Data Usability Summary Report	Project: Hudson Old Moreau
Date Completed: September 24, 2021	Completed by: Eridania Marte

Perfluorinated Compounds by LC/MS/MS – Method E537(M)	
Description	Notes and Qualifiers
	prep. Perfluoroheptane Sulfonate (PFHpS) was detected in sample OM-PLASTIC-07232021 and was J qualified as an estimated value. No qualification was made on non-detected values. Isotope Dilution Analyte (IDA) recovery for M262FTS and M282FTS were above the method recommended limit for SPLP prep. Perfluorobutyric Acid (PFBA) and Perfluorohexanoic Acid (PFHxA) were detected in sample OM-PLASTIC-07232021 and were J qualified as estimated values. No qualification was made on non-detected values.
Is Laboratory QC frequency at least one blank and LCS with each batch and one set of MS/MSD per 20 samples?	Level II report provided; therefore, unable to determine frequency of MS/MSD.
Is MS/MSD within QC criteria (see Table 4)? If out and LCS is compliant, then "J" flag positive data in original sample due to matrix.	MS/MSD was not submitted with associated SDG.
Is LCS within QC criteria (see Table 5)? If out, and the recovery is high with no positive values, then no data qualification is required.	Yes.
Do internal standards areas and retention time meet criteria?	Yes.
Is initial calibration for compounds by isotope dilution <35 %RSD or curve fit; and compounds quantitated by isotope dilution analytes (IDA) <50% RSD? Is the initial calibration verification within or equal to 60-140% for all natives quantitated by isotope dilution or 50-150% for natives quantitated by IDA.	Level II report provided; therefore, unable to determine and no issues noted in report's case narrative.
Is continuing calibration for compounds by isotope dilution equal to or within 60-140% for all natives quantitated by isotope dilution or 50-150% for natives quantitated by IDA.	Level II report provided; therefore, unable to determine and no issues noted in report's case narrative.
Were any samples reanalyzed or diluted (see Table 6)? For any sample reanalysis or dilutions, is only one reportable result flagged?	No.
Do field duplicate results show good precision for all compounds (see Table 7)?	Not applicable.

Summary of Findings
VOCs by 8260C - Sample result for 2-Butanone (MEK) for OM-PLASTIC-07232021 was less than 5x the blank contamination. The sample result was U qualified as non-detect and PQL was elevated to sample result. Perfluorinated Compounds by E537(M) - Sample result for PFBA for OM-PLASTIC-07232021 was less than 5x the blank contamination. The sample result was U qualified as non-detect and PQL was elevated to sample result. - Multiple IDA were recovered above the method recommended limit for TCLP prep. Perfluoroheptane Sulfonate (PFHpS) was detected in sample OM-PLASTIC-07232021 and was J qualified as an estimated value.

Data Usability Summary Report	Project: Hudson Old Moreau
Date Completed: September 24, 2021	Completed by: Eridania Marte

Summary of Findings
• IDA recovery for M262FTS and M282FTS were above the method recommended limit for SPLP prep. Perfluorobutyric Acid (PFBA) and Perfluorohexanoic Acid (PFHxA) were detected in sample OM-PLASTIC-07232021 and were J qualified as estimated values.

Data Usability Summary Report	Project: Hudson Old Moreau
Date Completed: September 24, 2021	Completed by: Eridania Marte

Table 2 - List of Positive Results for Blank Samples

Method	Sample Name	Sample Type	Analyte	Result	Qualifier	Units	MDL	PQL
8260C	MB 480-590596/1-A	MB	2-Butanone (MEK)	0.0524		mg/L	0.013	0.05
E537(M)	MB 320-510957/1-C	MB	Perfluorobutanoic acid (PFBA)	14.3		ng/L	2.1	4.4

Table 2A - List of Samples Qualified for Method Blank Contamination

Method	Method Blank	Matrix	Analyte	Blank Result	Lab Qual	Sample Result	Units	MDL	PQL	Affected Sample	Sample Flag
8260C	MB 480-590596/1-A	WL	2-Butanone (MEK)	0.0524		0.056	mg/L	0.013	0.050	OM-PLASTIC-07232021	U Flag
E537(M)	MB 320-510957/1-C	WL	Perfluorobutanoic acid (PFBA)	14.3		18	ng/L	2.1	4.5	OM-PLASTIC-07232021	U Flag

Table 2B - List of Samples Qualified for Field Blank Contamination

Table 3 - List of Samples with Surrogates outside Control Limits

Table 3A – List of Samples with Isotope Dilution Recovery outside Control Limits

Method	Sample ID	Sample Type	Analyte	Rec. %	Low Limit	High Limit	Dilution Factor	Sample Qualifier	No. IDAs Out
E537(M)	OM-PLASTIC-07232021	SPLP	1H,1H,2H,2H-perfluoro-1-[1,2-13C2]-decane sulfonate (8:2)	181	25	150	1	J Flag	1
E537(M)	OM-PLASTIC-07232021	SPLP	1H,1H,2H,2H-perfluoro-1-[1,2-13C2]-octane sulfonate (6:2)	308	25	150	1	J Flag	1
E537(M)	OM-PLASTIC-07232021	TCLP	13C2-Perfluorodecanoic acid	194	25	150	1	J Flag	1
E537(M)	OM-PLASTIC-07232021	TCLP	13C2-Perfluoroundecanoic acid	156	25	150	1	J Flag	1
E537(M)	OM-PLASTIC-07232021	TCLP	13C3-Perfluorobutane Sulfonate	215	25	150	1	J Flag	1
E537(M)	OM-PLASTIC-07232021	TCLP	13C4-Perfluorooctanesulfonate	164	25	150	1	J Flag	1
E537(M)	OM-PLASTIC-07232021	TCLP	13C5-Perfluorononanoic acid	165	25	150	1	J Flag	1
E537(M)	OM-PLASTIC-07232021	TCLP	13C8-Perfluorooctanesulfonamide	161	25	150	1	J Flag	1

Data Usability Summary Report	Project: Hudson Old Moreau
Date Completed: September 24, 2021	Completed by: Eridania Marte

E537(M)	OM-PLASTIC-07232021	TCLP	1H,1H,2H,2H-perfluoro-1-[1,2-13C2]-decane sulfonate (8:2)	434	25	150	1	J Flag	1
E537(M)	OM-PLASTIC-07232021	TCLP	1H,1H,2H,2H-perfluoro-1-[1,2-13C2]-octane sulfonate (6:2)	424	25	150	1	J Flag	1
E537(M)	OM-PLASTIC-07232021	TCLP	N-deuterioethylperfluoro-1-octanesulfonamidoacetic acid	199	25	150	1	J Flag	1
E537(M)	OM-PLASTIC-07232021	TCLP	N-deuteriomethylperfluoro-1-octanesulfonamidoacetic acid	163	25	150	1	J Flag	1

Table 4A – List of MS/MSD Recoveries outside Control Limits

Table 4B – List of MS/MSD RPDs outside Control Limits

Table 5A - List of LCS Recoveries outside Control Limits

Table 5B – List of ICV/CCV Recoveries outside Control Limits

Table 6 –Samples that were Re-analyzed

Sample ID	Lab ID	Method	Sample Type	Action
OM-PLASTIC-07232021	480-187617-1	8260C	WL	10X: diluted due to the nature of the TCLP and SPLP sample matrix.

Table 7A – Summary of Field Duplicate Results

Data Usability Summary Report	Project: Hudson Old Moreau
Date Completed: September 24, 2021	Completed by: Eridania Marte

Acronym List and Table Key:

CCV	= continuing calibration verification
CCVL	= continuing calibration verification low
COC	= chain of custody
DUSR	= data usability summary report
FD	= field duplicate
GC/MS	= gas chromatography / mass spectrometry
ICS	= interference check standard
ICV	= initial calibration verification
LCS	= laboratory control sample
MB	= method blank
MDL	= method detection limit
mg/L	= milligrams per liter
MS	= matrix spike
MSD	= matrix spike duplicate
ng/L	= nanograms per liter
N	= normal (field) sample
ND	= not detected
NYSDEC	= New York State Department of Environmental Conservation
PQL	= practical quantitation limit
QA	= quality assurance
QAPP	= quality assurance project plan
QC	= quality control
RB	= equipment rinse blank
RPD	= relative percent difference
RL	= reporting limit
SDG	= sample delivery group
TB	= trip blank
TRG	= target compound
%D	= percent difference
%RSD	= percent relative standard deviation

Data Usability Summary Report	Project: Hudson Old Moreau
Date Completed: September 24, 2021	Completed by: Eridania Marte

The analytical data provided by the laboratory were reviewed for precision, accuracy, and completeness based on applicable sections of the following guidelines.

- NYSDEC Division of Environmental Remediation Guidance for Data Deliverables and the Development of Data Usability Summary Reports (in DER-10, May 2010)
- EPA Region 2 Data Validation SOP

Specific criteria for QC limits were obtained from the Site Assessment Sampling and Analysis Plan. Compliance with the project QA program is indicated in the checklist and tables below. Any major or minor concerns affecting data usability are listed below. The checklist and tables also indicate whether data qualification is required and/or the type of qualifier assigned.

Reference:

Project ID	Lab Work Order	Laboratory Report
EE1705007.0015.02	480-187618-1	Test America, Buffalo

Table 1 Sample Listing Summary

Work Order	Matrix	Sample ID	Lab ID	Sample Date	Field QC	ID Corrections
480-187618-1	SO	GP01-01	480-187618-2	07/23/2021 10:50		
480-187618-1	SO	GP01-02	480-187618-1	07/23/2021 11:00		
480-187618-1	SO	GP02-01	480-187618-3	07/23/2021 11:45		
480-187618-1	SO	GP02-02	480-187618-4	07/23/2021 11:55		
480-187618-1	SO	GP02-03	480-187618-5	07/23/2021 12:10		
480-187618-1	SO	GP03-01	480-187618-6	07/23/2021 12:30		
480-187618-1	SO	GP03-02	480-187618-7	07/23/2021 12:35		
480-187618-1	SO	GP04-01	480-187618-8	07/23/2021 13:20		
480-187618-1	SO	GP04-02	480-187618-9	07/23/2021 13:25		
480-187618-1	SO	GPFD-01	480-187618-10	07/23/2021 13:30		

Table 1A Sample Test Summary

Work Orders	Matrix	Test Method	Method Name	# of Samples	Sample Type
480-183487-1	SO	SW8082A	Polychlorinated Biphenyls by GC	10	N/FD

Data Usability Summary Report	Project: Hudson Old Moreau
Date Completed: September 24, 2021	Completed by: Eridania Marte

General Sample Information	
Do Samples and Analyses on COC check against Lab Sample Tracking Form?	Yes.
Did coolers arrive at lab between 2 and 6°C and in good condition as indicated on COC and Cooler Receipt Form?	Yes.
Frequency of Field QC Samples Correct? Field Duplicate - 1/20 samples Trip Blank - Every cooler with VOCs Equipment Blank - 1/ set of samples per day for perfluorinated compounds and 1/ set per location for all other samples?	No. Field QC samples were not collected as indicated in the project's Site Assessment Sampling and Analysis Plan. 1 FD per 9 samples. 0 MS/MSD per 9 samples. No trip blank required. 0 rinsate blank.
Case narrative present and complete?	Yes.
Any holding time violations?	No.

The following tables are presented at the end of this DUSR and provide summaries of results outside QC criteria:

- Method Blanks Results (Table 2)
- Surrogates Outside Limits (Table 3)
- MS/MSD Outside Limits (Table 4)
- LCS and ICV/CCV Outside Limits (Table 5)
- Reanalysis Results (Table 6)
- Field Duplicate Results (Table 7)

Go to [Tables](#) List

Data Usability Summary Report	Project: Hudson Old Moreau
Date Completed: September 24, 2021	Completed by: Eridania Marte

PCBs by GC/ECD – Method 8082A	
Description	Notes and Qualifiers
Are any compounds present in method and field blanks as noted on Table 2?	No.
For samples, if results are < 5 times the blank then "U" flag data.	Not applicable.
Are surrogates for method blanks and LCS within limits (see Table 4)?	Yes.
Are surrogates for samples and MS/MSD within limits (see Table 4)? Matrix effects should be established.	Yes.
Is laboratory QC frequency one blank and LCS with each batch and one MS/MSD per 20 samples?	Level II report provided; therefore, unable to determine frequency of MS/MSD.
Are MS/MSD within QC criteria (see Table 3)? If out and LCS is compliant, then J flag positive data in original sample due to matrix.	MS/MSD was not submitted with associated SDG.
Is LCS within QC criteria (see Table 5a)? If out, and the recovery high with no positive values, then no data qualification is required.	Yes.
Is initial calibration for target compounds <15 %RSD or curve fit? Is initial calibration verification <25%D (see Table 5b)?	Level II report provided; therefore, unable to determine and no issues noted in report's case narrative.
Is continuing calibration for target compounds < 20%D (see Table 5b)?	Level II report provided; therefore, unable to determine and no issues noted in report's case narrative.
Were any samples re-analyzed or diluted (see Table 7)? For any sample re-analysis and dilutions is only one reportable result by flagged?	Yes. Samples GP01-01 and GP04-01 were diluted to bring the concentration of target analytes within the calibration range.
Spot check retention time windows and second column confirmations as complete.	Yes.
Do field duplicate results show good precision for all compounds (see Table 8)?	All samples results were non-detect; therefore, precision could not be determined.

Summary of Findings
None

Data Usability Summary Report	Project: Hudson Old Moreau
Date Completed: September 24, 2021	Completed by: Eridania Marte

Table 2 - List of Positive Results for Blank Samples

Table 2A - List of Samples Qualified for Method Blank Contamination

Table 2B - List of Samples Qualified for Field Blank Contamination

Table 3 - List of Samples with Surrogates outside Control Limits

Table 3A – List of Samples with Isotope Dilution Recovery outside Control Limits

Table 4A – List of MS/MSD Recoveries outside Control Limits

Table 4B – List of MS/MSD RPDs outside Control Limits

Table 5A – List of LCS Recoveries outside Control Limits

Table 5B – List of ICV/CCV Recoveries outside Control Limits

Table 6 –Samples that were Re-analyzed

Sample ID	Lab ID	Method	Sample Type	Action
GP01-01	480-187618-2	SW8082A	SO	5X: diluted to bring the concentration of target analytes within the calibration range
GP04-01	480-187618-8	SW8082A	SO	10X: diluted to bring the concentration of target analytes within the calibration range

Table 7A – Summary of Field Duplicate Results

Data Usability Summary Report	Project: Hudson Old Moreau
Date Completed: September 24, 2021	Completed by: Eridania Marte

Acronym List and Table Key:

CCV	= continuing calibration verification
CCVL	= continuing calibration verification low
COC	= chain of custody
DUSR	= data usability summary report
FD	= field duplicate
GC/MS	= gas chromatography / mass spectrometry
ICB	= initial calibration blank
ICS	= interference check standard
ICV	= initial calibration verification
LCS	= laboratory control sample
MB	= method blank
MDL	= method detection limit
µg/L	= micrograms per liter
MS	= matrix spike
MSD	= matrix spike duplicate
N	= normal (field) sample
ND	= not detected
NYSDEC	= New York State Department of Environmental Conservation
PQL	= practical quantitation limit
QA	= quality assurance
QAPP	= quality assurance project plan
QC	= quality control
RB	= equipment rinse blank
RPD	= relative percent difference
RL	= reporting limit
SDG	= sample delivery group
TB	= trip blank
TRG	= target compound
%D	= percent difference
%RSD	= percent relative standard deviation

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-183487-1

Client Project/Site: Old Moreau Dredge Spoil Area #546040

For:

New York State D.E.C.
625 Broadway
12th Floor
Albany, New York 12233-7017

Attn: John L Armitage



Authorized for release by:
4/23/2021 4:55:44 PM

Judy Stone, Senior Project Manager
(484)685-0868
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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Judy Stone
Senior Project Manager
4/23/2021 4:55:44 PM

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Definitions/Glossary

Client: New York State D.E.C.

Job ID: 480-183487-1

Project/Site: Old Moreau Dredge Spoil Area #546040

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-183487-1

Job ID: 480-183487-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-183487-1

Receipt

The samples were received on 4/17/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4° C.

GC Semi VOA

Method 8082A: Surrogate recovery for the following sample was outside the upper control limit: OLD MOREAU MW-08D (480-183487-2). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: New York State D.E.C.

Job ID: 480-183487-1

Project/Site: Old Moreau Dredge Spoil Area #546040

Client Sample ID: OLD MOREAU MW-08

Lab Sample ID: 480-183487-1

No Detections.

Client Sample ID: OLD MOREAU MW-08D

Lab Sample ID: 480-183487-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-183487-1

Client Sample ID: OLD MOREAU MW-08

Lab Sample ID: 480-183487-1

Date Collected: 04/16/21 14:58

Matrix: Water

Date Received: 04/17/21 08:00

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		04/21/21 14:57	04/22/21 14:04	1
PCB-1221	ND		0.50	0.18	ug/L		04/21/21 14:57	04/22/21 14:04	1
PCB-1232	ND		0.50	0.18	ug/L		04/21/21 14:57	04/22/21 14:04	1
PCB-1242	ND		0.50	0.18	ug/L		04/21/21 14:57	04/22/21 14:04	1
PCB-1248	ND		0.50	0.18	ug/L		04/21/21 14:57	04/22/21 14:04	1
PCB-1254	ND		0.50	0.25	ug/L		04/21/21 14:57	04/22/21 14:04	1
PCB-1260	ND		0.50	0.25	ug/L		04/21/21 14:57	04/22/21 14:04	1
PCB-1262	ND		0.50	0.25	ug/L		04/21/21 14:57	04/22/21 14:04	1
PCB-1268	ND		0.50	0.25	ug/L		04/21/21 14:57	04/22/21 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	68		39 - 121	04/21/21 14:57	04/22/21 14:04	1
DCB Decachlorobiphenyl	66		19 - 120	04/21/21 14:57	04/22/21 14:04	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-183487-1

Client Sample ID: OLD MOREAU MW-08D

Lab Sample ID: 480-183487-2

Date Collected: 04/16/21 14:58

Matrix: Water

Date Received: 04/17/21 08:00

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		04/21/21 14:57	04/22/21 12:44	1
PCB-1221	ND		0.50	0.18	ug/L		04/21/21 14:57	04/22/21 12:44	1
PCB-1232	ND		0.50	0.18	ug/L		04/21/21 14:57	04/22/21 12:44	1
PCB-1242	ND		0.50	0.18	ug/L		04/21/21 14:57	04/22/21 12:44	1
PCB-1248	ND		0.50	0.18	ug/L		04/21/21 14:57	04/22/21 12:44	1
PCB-1254	ND		0.50	0.25	ug/L		04/21/21 14:57	04/22/21 12:44	1
PCB-1260	ND		0.50	0.25	ug/L		04/21/21 14:57	04/22/21 12:44	1
PCB-1262	ND		0.50	0.25	ug/L		04/21/21 14:57	04/22/21 12:44	1
PCB-1268	ND		0.50	0.25	ug/L		04/21/21 14:57	04/22/21 12:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	128	S1+	39 - 121	04/21/21 14:57	04/22/21 12:44	1
DCB Decachlorobiphenyl	126	S1+	19 - 120	04/21/21 14:57	04/22/21 12:44	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-183487-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	TCX2	DCBP2				
		(39-121)	(19-120)				
LCS 480-577251/2-A	Lab Control Sample	103	71				
LCSD 480-577251/3-A	Lab Control Sample Dup	99	75				
MB 480-577251/1-A	Method Blank	95	86				
Surrogate Legend							
TCX = Tetrachloro-m-xylene							
DCBP = DCB Decachlorobiphenyl							

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water

Prep Type: Dissolved

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	TCX2	DCBP2				
		(39-121)	(19-120)				
480-183487-1	OLD MOREAU MW-08	68	66				
480-183487-2	OLD MOREAU MW-08D	128 S1+	126 S1+				
Surrogate Legend							
TCX = Tetrachloro-m-xylene							
DCBP = DCB Decachlorobiphenyl							

QC Sample Results

Client: New York State D.E.C.

Job ID: 480-183487-1

Project/Site: Old Moreau Dredge Spoil Area #546040

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-577251/1-A

Matrix: Water

Analysis Batch: 577242

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 577251

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.50	0.18	ug/L		04/21/21 14:57	04/22/21 09:34	1
PCB-1221	ND		0.50	0.18	ug/L		04/21/21 14:57	04/22/21 09:34	1
PCB-1232	ND		0.50	0.18	ug/L		04/21/21 14:57	04/22/21 09:34	1
PCB-1242	ND		0.50	0.18	ug/L		04/21/21 14:57	04/22/21 09:34	1
PCB-1248	ND		0.50	0.18	ug/L		04/21/21 14:57	04/22/21 09:34	1
PCB-1254	ND		0.50	0.25	ug/L		04/21/21 14:57	04/22/21 09:34	1
PCB-1260	ND		0.50	0.25	ug/L		04/21/21 14:57	04/22/21 09:34	1
PCB-1262	ND		0.50	0.25	ug/L		04/21/21 14:57	04/22/21 09:34	1
PCB-1268	ND		0.50	0.25	ug/L		04/21/21 14:57	04/22/21 09:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	95		39 - 121	04/21/21 14:57	04/22/21 09:34	1
DCB Decachlorobiphenyl	86		19 - 120	04/21/21 14:57	04/22/21 09:34	1

Lab Sample ID: LCS 480-577251/2-A

Matrix: Water

Analysis Batch: 577242

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 577251

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	4.00	4.60		ug/L		115	62 - 130
PCB-1260	4.00	4.75		ug/L		119	56 - 123

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	103		39 - 121
DCB Decachlorobiphenyl	71		19 - 120

Lab Sample ID: LCSD 480-577251/3-A

Matrix: Water

Analysis Batch: 577242

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 577251

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	4.00	4.46		ug/L		111	62 - 130	3	50
PCB-1260	4.00	4.71		ug/L		118	56 - 123	1	50

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	99		39 - 121
DCB Decachlorobiphenyl	75		19 - 120

QC Association Summary

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-183487-1

GC Semi VOA

Analysis Batch: 577242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183487-1	OLD MOREAU MW-08	Dissolved	Water	8082A	577251
480-183487-2	OLD MOREAU MW-08D	Dissolved	Water	8082A	577251
MB 480-577251/1-A	Method Blank	Total/NA	Water	8082A	577251
LCS 480-577251/2-A	Lab Control Sample	Total/NA	Water	8082A	577251
LCSD 480-577251/3-A	Lab Control Sample Dup	Total/NA	Water	8082A	577251

Prep Batch: 577251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-183487-1	OLD MOREAU MW-08	Dissolved	Water	3510C	
480-183487-2	OLD MOREAU MW-08D	Dissolved	Water	3510C	
MB 480-577251/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-577251/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-577251/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-183487-1

Client Sample ID: OLD MOREAU MW-08

Lab Sample ID: 480-183487-1

Date Collected: 04/16/21 14:58

Matrix: Water

Date Received: 04/17/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3510C			577251	04/21/21 14:57	ATG	TAL BUF
Dissolved	Analysis	8082A		1	577242	04/22/21 14:04	NC	TAL BUF

Client Sample ID: OLD MOREAU MW-08D

Lab Sample ID: 480-183487-2

Date Collected: 04/16/21 14:58

Matrix: Water

Date Received: 04/17/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Dissolved	Prep	3510C			577251	04/21/21 14:57	ATG	TAL BUF
Dissolved	Analysis	8082A		1	577242	04/22/21 12:44	NC	TAL BUF

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: New York State D.E.C.

Job ID: 480-183487-1

Project/Site: Old Moreau Dredge Spoil Area #546040

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

Method Summary

Client: New York State D.E.C.

Job ID: 480-183487-1

Project/Site: Old Moreau Dredge Spoil Area #546040

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State D.E.C.

Job ID: 480-183487-1

Project/Site: Old Moreau Dredge Spoil Area #546040

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-183487-1	OLD MOREAU MW-08	Water	04/16/21 14:58	04/17/21 08:00	
480-183487-2	OLD MOREAU MW-08D	Water	04/16/21 14:58	04/17/21 08:00	

Chain of Custody Record

Environment Testing
America

Client Information Client Contact: <u>Brian Cervi</u> Phone: <u>716-432-8126</u> Email: <u>brian.cervi@cwsp.com</u> Company: <u>Ecology and Environment, Inc.</u> Address: <u>368 Pleasant View Drive</u> City: <u>Lancaster</u> State, Zip: <u>NY, 14086</u> Phone: <u>518-402-2754 (Fell)</u> Email: <u>brian.cervi@cwsp.com</u> Project Name: <u>546090 Old</u> Site: <u>old Moreau Moreau</u>		Carrier Tracking No(s): <u>480-159093-34994 9</u> State of Origin: <u>Page 9 of 9</u> Job #: <u>716-432-8126</u> Lab PM: <u>Stone, Judy L</u> E-Mail: <u>Judy.Stone@Eurofinset.com</u>	
Analysis Requested TAT Requested (days): <u>1-0 day</u> Compliance Project: <u>Yes</u> / <u>No</u> PO #: <u>518-402-2754 (Fell)</u> CallOut ID: <u>400005</u> WO #: <u>546090</u> Project #: <u>546090</u> SOW #: <u>546090</u>		Preservation Codes: A - HCL M - Hexane N - None L - Etn Other:	
Sample Identification Sample Date: <u>4/16/21</u> Sample Time: <u>1458</u> Sample Type: <u>g</u> Matrix: <u>Solid</u> Preservation Code: <u>g</u> Field Filtered Sample (Yes or No): <u>Yes</u> Perform MS/MSD (Yes or No): <u>Yes</u> 6010C, 7471B 8260C - TCL VOAs PFC_IDA - PFAS, Standard List (21 Analytes) - Sac 8260C - TCL VOAs Total Number of Containers: <u>1</u> Special Instructions/Note: <u>BUC both were field filtered</u>		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements:	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____	
Relinquished by: <u>Charles K...</u> Date/Time: <u>4/16/21 1608</u> Company: <u>WSP</u>		Received by: <u>Harley Z...</u> Date/Time: <u>4/16/21 1608</u> Company: <u>WSP</u>	
Relinquished by: <u>Harley Z...</u> Date/Time: <u>4/16/21 1700</u> Company: <u>WSP</u>		Received by: <u>Charles K...</u> Date/Time: <u>4/17/21 0800</u> Company: <u>WSP</u>	
Relinquished by: _____ Date/Time: _____ Company: _____		Received by: _____ Date/Time: _____ Company: _____	
Custody Seals Intact: <u>Yes</u> / <u>No</u>		Cooler Temperature(s) °C and Other Remarks: <u>#1 2.4</u>	

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-183487-1

Login Number: 183487

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	PES
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-187617-1

Client Project/Site: Old Moreau Dredge Spoil Area #546040

For:

New York State D.E.C.
625 Broadway
12th Floor
Albany, New York 12233-7017

Attn: John L Armitage



Authorized for release by:
8/10/2021 6:32:06 PM

Judy Stone, Senior Project Manager
(484)685-0868
Judy.Stone@Eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

- 1
- 2
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- 7
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I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Judy Stone
Senior Project Manager
8/10/2021 6:32:06 PM

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Definitions/Glossary

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-187617-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.

LCMS

Qualifier	Qualifier Description
*5+	Isotope dilution analyte is outside acceptance limits, high biased.
B	Compound was found in the blank and sample.
I	Value is EMPC (estimated maximum possible concentration).
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-187617-1

Job ID: 480-187617-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative 480-187617-1

Comments

No additional comments.

Receipt

The sample was received on 7/24/2021 8:00 AM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4° C.

GC/MS VOA

Method 8260C: The following samples were diluted due to the nature of the TCLP sample matrix: OM-PLASTIC-07232021 (480-187617-1), (LB 480-590594/1-A) and (LB 480-590596/1-A). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

Method 1311: The physical characteristics of the following samples prohibited particle size reduction as required by SW-846 Method 1311: OM-PLASTIC-07232021 (480-187617-1). TCLP extraction was continued per the client request.

Method 1312: The physical characteristics of the following samples prohibited particle size reduction as required by SW-846 Method 1312: OM-PLASTIC-07232021 (480-187617-1). SPLP extraction was continued per the client request.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

LCMS

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: OM-PLASTIC-07232021 (480-187617-1). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): The "I" qualifier means the transition mass ratio for the indicated analyte was outside of the established ratio limit. The qualitative identification of the analyte has some degree of uncertainty, and the reported value may have some high bias. However, analyst judgment was used to positively identify the analyte: OM-PLASTIC-07232021 (480-187617-1).

Method 537 (modified): The TCLP leachate blank (LB) contained Perfluorobutanoic acid (PFBA) above the reporting limit. The associated sample has this compound at a similar level. Due to limited sample volume the sample could not be re-extracted, therefore, the results are reported with a possible high biased result: OM-PLASTIC-07232021 (480-187617-1) and (LB 320-510957/1-C).

Method 537 (modified): Isotope Dilution Analyte (IDA) recovery is above the method recommended limit for the following sample: OM-PLASTIC-07232021 (480-187617-1). Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: New York State D.E.C.

Job ID: 480-187617-1

Project/Site: Old Moreau Dredge Spoil Area #546040

Client Sample ID: OM-PLASTIC-07232021

Lab Sample ID: 480-187617-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.056	B	0.050	0.013	mg/L	10		8260C	SPLP
Perfluorobutanoic acid (PFBA)	18	B	4.5	2.1	ng/L	1		537 (modified)	TCLP
Perfluoroheptanesulfonic Acid (PFHpS)	0.41	J I	1.8	0.17	ng/L	1		537 (modified)	TCLP
Perfluorobutanoic acid (PFBA)	2.7	J	4.4	2.1	ng/L	1		537 (modified)	SPLP East
Perfluorohexanoic acid (PFHxA)	0.57	J	1.8	0.52	ng/L	1		537 (modified)	SPLP East

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-187617-1

Client Sample ID: OM-PLASTIC-07232021

Lab Sample ID: 480-187617-1

Date Collected: 07/23/21 09:10

Matrix: Solid

Date Received: 07/24/21 08:00

Method: 8260C - Volatile Organic Compounds by GC/MS - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			07/30/21 08:51	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			07/30/21 08:51	10
Benzene	ND		0.010	0.0041	mg/L			07/30/21 08:51	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			07/30/21 08:51	10
Chlorobenzene	ND		0.010	0.0075	mg/L			07/30/21 08:51	10
Chloroform	ND		0.010	0.0034	mg/L			07/30/21 08:51	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			07/30/21 08:51	10
Trichloroethene	ND		0.010	0.0046	mg/L			07/30/21 08:51	10
Vinyl chloride	ND		0.010	0.0090	mg/L			07/30/21 08:51	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			07/30/21 08:51	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		07/30/21 08:51	10
4-Bromofluorobenzene (Surr)	98		73 - 120		07/30/21 08:51	10
Toluene-d8 (Surr)	100		80 - 120		07/30/21 08:51	10
Dibromofluoromethane (Surr)	98		75 - 123		07/30/21 08:51	10

Method: 8260C - Volatile Organic Compounds by GC/MS - SPLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			07/30/21 07:21	10
2-Butanone (MEK)	0.056	B	0.050	0.013	mg/L			07/30/21 07:21	10
Benzene	ND		0.010	0.0041	mg/L			07/30/21 07:21	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			07/30/21 07:21	10
Chlorobenzene	ND		0.010	0.0075	mg/L			07/30/21 07:21	10
Chloroform	ND		0.010	0.0034	mg/L			07/30/21 07:21	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			07/30/21 07:21	10
Trichloroethene	ND		0.010	0.0046	mg/L			07/30/21 07:21	10
Vinyl chloride	ND		0.010	0.0090	mg/L			07/30/21 07:21	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			07/30/21 07:21	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		07/30/21 07:21	10
4-Bromofluorobenzene (Surr)	98		73 - 120		07/30/21 07:21	10
Toluene-d8 (Surr)	100		80 - 120		07/30/21 07:21	10
Dibromofluoromethane (Surr)	98		75 - 123		07/30/21 07:21	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.040	0.0018	mg/L		07/28/21 15:12	07/29/21 19:25	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		07/28/21 15:12	07/29/21 19:25	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		07/28/21 15:12	07/29/21 19:25	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		07/28/21 15:12	07/29/21 19:25	1
2-Methylphenol	ND		0.020	0.0016	mg/L		07/28/21 15:12	07/29/21 19:25	1
3-Methylphenol	ND		0.040	0.0016	mg/L		07/28/21 15:12	07/29/21 19:25	1
4-Methylphenol	ND		0.040	0.0014	mg/L		07/28/21 15:12	07/29/21 19:25	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		07/28/21 15:12	07/29/21 19:25	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		07/28/21 15:12	07/29/21 19:25	1
Hexachloroethane	ND		0.020	0.0023	mg/L		07/28/21 15:12	07/29/21 19:25	1
Nitrobenzene	ND		0.020	0.0011	mg/L		07/28/21 15:12	07/29/21 19:25	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		07/28/21 15:12	07/29/21 19:25	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-187617-1

Client Sample ID: OM-PLASTIC-07232021

Lab Sample ID: 480-187617-1

Date Collected: 07/23/21 09:10

Matrix: Solid

Date Received: 07/24/21 08:00

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	ND		0.10	0.0016	mg/L		07/28/21 15:12	07/29/21 19:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	110		41 - 120				07/28/21 15:12	07/29/21 19:25	1
2-Fluorobiphenyl	100		48 - 120				07/28/21 15:12	07/29/21 19:25	1
2-Fluorophenol (Surr)	49		35 - 120				07/28/21 15:12	07/29/21 19:25	1
Nitrobenzene-d5 (Surr)	87		46 - 120				07/28/21 15:12	07/29/21 19:25	1
p-Terphenyl-d14 (Surr)	109		60 - 148				07/28/21 15:12	07/29/21 19:25	1
Phenol-d5 (Surr)	37		22 - 120				07/28/21 15:12	07/29/21 19:25	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.040	0.0018	mg/L		07/28/21 15:12	07/29/21 21:01	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		07/28/21 15:12	07/29/21 21:01	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		07/28/21 15:12	07/29/21 21:01	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		07/28/21 15:12	07/29/21 21:01	1
2-Methylphenol	ND		0.020	0.0016	mg/L		07/28/21 15:12	07/29/21 21:01	1
3-Methylphenol	ND		0.040	0.0016	mg/L		07/28/21 15:12	07/29/21 21:01	1
4-Methylphenol	ND		0.040	0.0014	mg/L		07/28/21 15:12	07/29/21 21:01	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		07/28/21 15:12	07/29/21 21:01	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		07/28/21 15:12	07/29/21 21:01	1
Hexachloroethane	ND		0.020	0.0023	mg/L		07/28/21 15:12	07/29/21 21:01	1
Nitrobenzene	ND		0.020	0.0011	mg/L		07/28/21 15:12	07/29/21 21:01	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		07/28/21 15:12	07/29/21 21:01	1
Pyridine	ND		0.10	0.0016	mg/L		07/28/21 15:12	07/29/21 21:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	101		41 - 120				07/28/21 15:12	07/29/21 21:01	1
2-Fluorobiphenyl	97		48 - 120				07/28/21 15:12	07/29/21 21:01	1
2-Fluorophenol (Surr)	48		35 - 120				07/28/21 15:12	07/29/21 21:01	1
Nitrobenzene-d5 (Surr)	87		46 - 120				07/28/21 15:12	07/29/21 21:01	1
p-Terphenyl-d14 (Surr)	103		60 - 148				07/28/21 15:12	07/29/21 21:01	1
Phenol-d5 (Surr)	36		22 - 120				07/28/21 15:12	07/29/21 21:01	1

Method: 537 (modified) - Fluorinated Alkyl Substances - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	18	B	4.5	2.1	ng/L		08/03/21 13:01	08/05/21 02:47	1
Perfluoropentanoic acid (PFPeA)	ND		1.8	0.44	ng/L		08/03/21 13:01	08/05/21 02:47	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.52	ng/L		08/03/21 13:01	08/05/21 02:47	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.22	ng/L		08/03/21 13:01	08/05/21 02:47	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.76	ng/L		08/03/21 13:01	08/05/21 02:47	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.24	ng/L		08/03/21 13:01	08/05/21 02:47	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.28	ng/L		08/03/21 13:01	08/05/21 02:47	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.98	ng/L		08/03/21 13:01	08/05/21 02:47	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.49	ng/L		08/03/21 13:01	08/05/21 02:47	1
Perfluorotridecanoic acid (PFTriDA)	ND		1.8	1.2	ng/L		08/03/21 13:01	08/05/21 02:47	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.65	ng/L		08/03/21 13:01	08/05/21 02:47	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.18	ng/L		08/03/21 13:01	08/05/21 02:47	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.51	ng/L		08/03/21 13:01	08/05/21 02:47	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.41	J I	1.8	0.17	ng/L		08/03/21 13:01	08/05/21 02:47	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-187617-1

Client Sample ID: OM-PLASTIC-07232021

Lab Sample ID: 480-187617-1

Date Collected: 07/23/21 09:10

Matrix: Solid

Date Received: 07/24/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.48	ng/L		08/03/21 13:01	08/05/21 02:47	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.29	ng/L		08/03/21 13:01	08/05/21 02:47	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.88	ng/L		08/03/21 13:01	08/05/21 02:47	1
NMeFOSAA	ND		4.5	1.1	ng/L		08/03/21 13:01	08/05/21 02:47	1
NEtFOSAA	ND		4.5	1.2	ng/L		08/03/21 13:01	08/05/21 02:47	1
6:2 FTS	ND		4.5	2.2	ng/L		08/03/21 13:01	08/05/21 02:47	1
8:2 FTS	ND		1.8	0.41	ng/L		08/03/21 13:01	08/05/21 02:47	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	96		25 - 150	08/03/21 13:01	08/05/21 02:47	1
13C5 PFPeA	136		25 - 150	08/03/21 13:01	08/05/21 02:47	1
13C2 PFHxA	132		25 - 150	08/03/21 13:01	08/05/21 02:47	1
13C4 PFHpA	143		25 - 150	08/03/21 13:01	08/05/21 02:47	1
13C4 PFOA	94		25 - 150	08/03/21 13:01	08/05/21 02:47	1
13C5 PFNA	165	*5+	25 - 150	08/03/21 13:01	08/05/21 02:47	1
13C2 PFDA	194	*5+	25 - 150	08/03/21 13:01	08/05/21 02:47	1
13C2 PFUnA	156	*5+	25 - 150	08/03/21 13:01	08/05/21 02:47	1
13C2 PFDoA	116		25 - 150	08/03/21 13:01	08/05/21 02:47	1
13C2 PFTeDA	43		25 - 150	08/03/21 13:01	08/05/21 02:47	1
13C3 PFBS	215	*5+	25 - 150	08/03/21 13:01	08/05/21 02:47	1
18O2 PFHxS	148		25 - 150	08/03/21 13:01	08/05/21 02:47	1
13C4 PFOS	164	*5+	25 - 150	08/03/21 13:01	08/05/21 02:47	1
13C8 FOSA	161	*5+	25 - 150	08/03/21 13:01	08/05/21 02:47	1
d3-NMeFOSAA	163	*5+	25 - 150	08/03/21 13:01	08/05/21 02:47	1
d5-NEtFOSAA	199	*5+	25 - 150	08/03/21 13:01	08/05/21 02:47	1
M2-6:2 FTS	424	*5+	25 - 150	08/03/21 13:01	08/05/21 02:47	1
M2-8:2 FTS	434	*5+	25 - 150	08/03/21 13:01	08/05/21 02:47	1

Method: 537 (modified) - Fluorinated Alkyl Substances - SPLP East

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.7	J	4.4	2.1	ng/L		08/03/21 13:01	08/05/21 03:23	1
Perfluoropentanoic acid (PFPeA)	ND		1.8	0.44	ng/L		08/03/21 13:01	08/05/21 03:23	1
Perfluorohexanoic acid (PFHxA)	0.57	J	1.8	0.52	ng/L		08/03/21 13:01	08/05/21 03:23	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.22	ng/L		08/03/21 13:01	08/05/21 03:23	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.76	ng/L		08/03/21 13:01	08/05/21 03:23	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.24	ng/L		08/03/21 13:01	08/05/21 03:23	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.28	ng/L		08/03/21 13:01	08/05/21 03:23	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.98	ng/L		08/03/21 13:01	08/05/21 03:23	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.49	ng/L		08/03/21 13:01	08/05/21 03:23	1
Perfluorotridecanoic acid (PFTriDA)	ND		1.8	1.2	ng/L		08/03/21 13:01	08/05/21 03:23	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.65	ng/L		08/03/21 13:01	08/05/21 03:23	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.18	ng/L		08/03/21 13:01	08/05/21 03:23	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.51	ng/L		08/03/21 13:01	08/05/21 03:23	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.17	ng/L		08/03/21 13:01	08/05/21 03:23	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.48	ng/L		08/03/21 13:01	08/05/21 03:23	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.28	ng/L		08/03/21 13:01	08/05/21 03:23	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.87	ng/L		08/03/21 13:01	08/05/21 03:23	1
NMeFOSAA	ND		4.4	1.1	ng/L		08/03/21 13:01	08/05/21 03:23	1
NEtFOSAA	ND		4.4	1.2	ng/L		08/03/21 13:01	08/05/21 03:23	1
6:2 FTS	ND		4.4	2.2	ng/L		08/03/21 13:01	08/05/21 03:23	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-187617-1

Client Sample ID: OM-PLASTIC-07232021

Lab Sample ID: 480-187617-1

Date Collected: 07/23/21 09:10

Matrix: Solid

Date Received: 07/24/21 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances - SPLP East (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2 FTS	ND		1.8	0.41	ng/L		08/03/21 13:01	08/05/21 03:23	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	80		25 - 150				08/03/21 13:01	08/05/21 03:23	1
13C5 PFPeA	97		25 - 150				08/03/21 13:01	08/05/21 03:23	1
13C2 PFHxA	92		25 - 150				08/03/21 13:01	08/05/21 03:23	1
13C4 PFHpA	89		25 - 150				08/03/21 13:01	08/05/21 03:23	1
13C4 PFOA	96		25 - 150				08/03/21 13:01	08/05/21 03:23	1
13C5 PFNA	118		25 - 150				08/03/21 13:01	08/05/21 03:23	1
13C2 PFDA	117		25 - 150				08/03/21 13:01	08/05/21 03:23	1
13C2 PFUnA	100		25 - 150				08/03/21 13:01	08/05/21 03:23	1
13C2 PFDoA	94		25 - 150				08/03/21 13:01	08/05/21 03:23	1
13C2 PFTeDA	56		25 - 150				08/03/21 13:01	08/05/21 03:23	1
13C3 PFBS	128		25 - 150				08/03/21 13:01	08/05/21 03:23	1
18O2 PFHxS	96		25 - 150				08/03/21 13:01	08/05/21 03:23	1
13C4 PFOS	99		25 - 150				08/03/21 13:01	08/05/21 03:23	1
13C8 FOSA	107		25 - 150				08/03/21 13:01	08/05/21 03:23	1
d3-NMeFOSAA	110		25 - 150				08/03/21 13:01	08/05/21 03:23	1
d5-NEtFOSAA	116		25 - 150				08/03/21 13:01	08/05/21 03:23	1
M2-6:2 FTS	308	*5+	25 - 150				08/03/21 13:01	08/05/21 03:23	1
M2-8:2 FTS	181	*5+	25 - 150				08/03/21 13:01	08/05/21 03:23	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-187617-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	TOL (80-120)	DBFM (75-123)
LCS 480-590975/6	Lab Control Sample	97	100	102	98
MB 480-590975/8	Method Blank	96	99	101	97
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
TOL = Toluene-d8 (Surr)					
DBFM = Dibromofluoromethane (Surr)					

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	TOL (80-120)	DBFM (75-123)
480-187617-1	OM-PLASTIC-07232021	96	98	100	98
LB 480-590594/1-A	Method Blank	97	99	100	98
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
TOL = Toluene-d8 (Surr)					
DBFM = Dibromofluoromethane (Surr)					

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: SPLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	TOL (80-120)	DBFM (75-123)
480-187617-1	OM-PLASTIC-07232021	96	98	100	98
LB 480-590596/1-A	Method Blank	96	99	100	98
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					
BFB = 4-Bromofluorobenzene (Surr)					
TOL = Toluene-d8 (Surr)					
DBFM = Dibromofluoromethane (Surr)					

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	TPHd14 (60-148)	PHL (22-120)
LCS 480-590798/2-A	Lab Control Sample	109	103	56	100	113	40
LCSD 480-590798/3-A	Lab Control Sample Dup	112	104	55	101	112	41
MB 480-590798/1-A	Method Blank	95	100	53	94	108	38
Surrogate Legend							
TBP = 2,4,6-Tribromophenol (Surr)							
FBP = 2-Fluorobiphenyl							
2FP = 2-Fluorophenol (Surr)							

Eurofins TestAmerica, Buffalo

Surrogate Summary

Client: New York State D.E.C.

Job ID: 480-187617-1

Project/Site: Old Moreau Dredge Spoil Area #546040

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

PHL = Phenol-d5 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	TPHd14 (60-148)	PHL (22-120)
480-187617-1	OM-PLASTIC-07232021	110	100	49	87	109	37
LB 480-590592/1-D	Method Blank	97	96	51	89	109	37

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

PHL = Phenol-d5 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: SPLP East

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (41-120)	FBP (48-120)	2FP (35-120)	NBZ (46-120)	TPHd14 (60-148)	PHL (22-120)
480-187617-1	OM-PLASTIC-07232021	101	97	48	87	103	36
LB 480-590595/1-B	Method Blank	94	94	48	88	105	36

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

PHL = Phenol-d5 (Surr)

Isotope Dilution Summary

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-187617-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
LCS 320-512646/2-A	Lab Control Sample	93	90	102	101	100	101	94	94
MB 320-512646/1-A	Method Blank	88	85	93	106	87	88	105	87
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
LCS 320-512646/2-A	Lab Control Sample	93	94	108	95	91	96	91	105
MB 320-512646/1-A	Method Blank	94	90	99	93	85	92	84	89
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)						
LCS 320-512646/2-A	Lab Control Sample	102	95						
MB 320-512646/1-A	Method Blank	101	93						
Surrogate Legend									
PFBA = 13C4 PFBA									
PFPeA = 13C5 PFPeA									
PFHxA = 13C2 PFHxA									
C4PFHA = 13C4 PFHpA									
PFOA = 13C4 PFOA									
PFNA = 13C5 PFNA									
PFDA = 13C2 PFDA									
PFUnA = 13C2 PFUnA									
PFDaA = 13C2 PFDaA									
PFTDA = 13C2 PFTeDA									
C3PFBS = 13C3 PFBS									
PFHxS = 18O2 PFHxS									
PFOS = 13C4 PFOS									
PFOSA = 13C8 FOSA									
d3NMFOS = d3-NMeFOSAA									
d5NEFOS = d5-NEtFOSAA									
M262FTS = M2-6:2 FTS									
M282FTS = M2-8:2 FTS									

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

Prep Type: TCLP

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
480-187617-1	OM-PLASTIC-07232021	96	136	132	143	94	165 *5+	194 *5+	156 *5+
LB 320-510957/1-C	Method Blank	93	90	97	102	98	96	99	99
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)
480-187617-1	OM-PLASTIC-07232021	116	43	215 *5+	148	164 *5+	161 *5+	163 *5+	199 *5+
LB 320-510957/1-C	Method Blank	95	93	106	97	89	98	84	96

Eurofins TestAmerica, Buffalo

Isotope Dilution Summary

Client: New York State D.E.C.

Job ID: 480-187617-1

Project/Site: Old Moreau Dredge Spoil Area #546040

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Solid

Prep Type: TCLP

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)						
480-187617-1	OM-PLASTIC-07232021	424 *5+	434 *5+						
LB 320-510957/1-C	Method Blank	102	103						
Surrogate Legend									
PFBA = 13C4 PFBA									
PFPeA = 13C5 PFPeA									
PFHxA = 13C2 PFHxA									
C4PFHA = 13C4 PFHpA									
PFOA = 13C4 PFOA									
PFNA = 13C5 PFNA									
PFDA = 13C2 PFDA									
PFUnA = 13C2 PFUnA									
PFDaA = 13C2 PFDaA									
PFTDA = 13C2 PFTeDA									
C3PFBS = 13C3 PFBS									
PFHxS = 18O2 PFHxS									
PFOS = 13C4 PFOS									
PFOSA = 13C8 FOSA									
d3NMFOs = d3-NMeFOsAA									
d5NEFOs = d5-NEtFOsAA									
M262FTS = M2-6:2 FTS									
M282FTS = M2-8:2 FTS									

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

Prep Type: SPLP East

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
480-187617-1	OM-PLASTIC-07232021	80	97	92	89	96	118	117	100
LB 320-511099/1-B	Method Blank	94	89	101	105	97	102	111	98
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDaA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	PFOSA (25-150)	d3NMFOs (25-150)	d5NEFOs (25-150)
480-187617-1	OM-PLASTIC-07232021	94	56	128	96	99	107	110	116
LB 320-511099/1-B	Method Blank	99	101	106	100	94	99	89	97
		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)						
480-187617-1	OM-PLASTIC-07232021	308 *5+	181 *5+						
LB 320-511099/1-B	Method Blank	99	97						
Surrogate Legend									
PFBA = 13C4 PFBA									
PFPeA = 13C5 PFPeA									
PFHxA = 13C2 PFHxA									
C4PFHA = 13C4 PFHpA									
PFOA = 13C4 PFOA									
PFNA = 13C5 PFNA									
PFDA = 13C2 PFDA									
PFUnA = 13C2 PFUnA									

Eurofins TestAmerica, Buffalo

Isotope Dilution Summary

Client: New York State D.E.C.

Job ID: 480-187617-1

Project/Site: Old Moreau Dredge Spoil Area #546040

PFD_oA = 13C₂ PFD_oA
PFTDA = 13C₂ PFTeDA
C₃PFBS = 13C₃ PFBS
PFHxS = 18O₂ PFHxS
PFOS = 13C₄ PFOS
PFOSA = 13C₈ FOSA
d₃NMFOS = d₃-NMeFOSAA
d₅NEFOS = d₅-NEtFOSAA
M₂₆₂FTS = M₂-6:2 FTS
M₂₈₂FTS = M₂-8:2 FTS

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QC Sample Results

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-187617-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-590975/8

Matrix: Solid

Analysis Batch: 590975

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.0010	0.00021	mg/L			07/30/21 00:54	1
2-Butanone (MEK)	ND		0.0050	0.0013	mg/L			07/30/21 00:54	1
Benzene	ND		0.0010	0.00041	mg/L			07/30/21 00:54	1
Carbon tetrachloride	ND		0.0010	0.00027	mg/L			07/30/21 00:54	1
Chlorobenzene	ND		0.0010	0.00075	mg/L			07/30/21 00:54	1
Chloroform	ND		0.0010	0.00034	mg/L			07/30/21 00:54	1
Tetrachloroethene	ND		0.0010	0.00036	mg/L			07/30/21 00:54	1
Trichloroethene	ND		0.0010	0.00046	mg/L			07/30/21 00:54	1
Vinyl chloride	ND		0.0010	0.00090	mg/L			07/30/21 00:54	1
1,1-Dichloroethene	ND		0.0010	0.00029	mg/L			07/30/21 00:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		07/30/21 00:54	1
4-Bromofluorobenzene (Surr)	99		73 - 120		07/30/21 00:54	1
Toluene-d8 (Surr)	101		80 - 120		07/30/21 00:54	1
Dibromofluoromethane (Surr)	97		75 - 123		07/30/21 00:54	1

Lab Sample ID: LCS 480-590975/6

Matrix: Solid

Analysis Batch: 590975

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	0.0250	0.0229		mg/L		92	75 - 120
2-Butanone (MEK)	0.125	0.110		mg/L		88	57 - 140
Benzene	0.0250	0.0247		mg/L		99	71 - 124
Carbon tetrachloride	0.0250	0.0277		mg/L		111	72 - 134
Chlorobenzene	0.0250	0.0243		mg/L		97	80 - 120
Chloroform	0.0250	0.0240		mg/L		96	73 - 127
Tetrachloroethene	0.0250	0.0246		mg/L		98	74 - 122
Trichloroethene	0.0250	0.0248		mg/L		99	74 - 123
Vinyl chloride	0.0250	0.0230		mg/L		92	65 - 133
1,1-Dichloroethene	0.0250	0.0253		mg/L		101	66 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Toluene-d8 (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	98		75 - 123

Lab Sample ID: LB 480-590594/1-A

Matrix: Solid

Analysis Batch: 590975

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			07/30/21 07:44	10
2-Butanone (MEK)	ND		0.050	0.013	mg/L			07/30/21 07:44	10
Benzene	ND		0.010	0.0041	mg/L			07/30/21 07:44	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			07/30/21 07:44	10

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-187617-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LB 480-590594/1-A

Matrix: Solid

Analysis Batch: 590975

Client Sample ID: Method Blank

Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		0.010	0.0075	mg/L			07/30/21 07:44	10
Chloroform	ND		0.010	0.0034	mg/L			07/30/21 07:44	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			07/30/21 07:44	10
Trichloroethene	ND		0.010	0.0046	mg/L			07/30/21 07:44	10
Vinyl chloride	ND		0.010	0.0090	mg/L			07/30/21 07:44	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			07/30/21 07:44	10

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		07/30/21 07:44	10
4-Bromofluorobenzene (Surr)	99		73 - 120		07/30/21 07:44	10
Toluene-d8 (Surr)	100		80 - 120		07/30/21 07:44	10
Dibromofluoromethane (Surr)	98		75 - 123		07/30/21 07:44	10

Lab Sample ID: LB 480-590596/1-A

Matrix: Solid

Analysis Batch: 590975

Client Sample ID: Method Blank

Prep Type: SPLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.010	0.0021	mg/L			07/30/21 06:58	10
2-Butanone (MEK)	0.0524		0.050	0.013	mg/L			07/30/21 06:58	10
Benzene	ND		0.010	0.0041	mg/L			07/30/21 06:58	10
Carbon tetrachloride	ND		0.010	0.0027	mg/L			07/30/21 06:58	10
Chlorobenzene	ND		0.010	0.0075	mg/L			07/30/21 06:58	10
Chloroform	ND		0.010	0.0034	mg/L			07/30/21 06:58	10
Tetrachloroethene	ND		0.010	0.0036	mg/L			07/30/21 06:58	10
Trichloroethene	ND		0.010	0.0046	mg/L			07/30/21 06:58	10
Vinyl chloride	ND		0.010	0.0090	mg/L			07/30/21 06:58	10
1,1-Dichloroethene	ND		0.010	0.0029	mg/L			07/30/21 06:58	10

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		07/30/21 06:58	10
4-Bromofluorobenzene (Surr)	99		73 - 120		07/30/21 06:58	10
Toluene-d8 (Surr)	100		80 - 120		07/30/21 06:58	10
Dibromofluoromethane (Surr)	98		75 - 123		07/30/21 06:58	10

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 480-590798/1-A

Matrix: Solid

Analysis Batch: 590902

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 590798

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.010	0.00045	mg/L		07/28/21 15:12	07/29/21 16:31	1
2,4-Dinitrotoluene	ND		0.0050	0.00043	mg/L		07/28/21 15:12	07/29/21 16:31	1
2,4,5-Trichlorophenol	ND		0.0050	0.00048	mg/L		07/28/21 15:12	07/29/21 16:31	1
2,4,6-Trichlorophenol	ND		0.0050	0.00060	mg/L		07/28/21 15:12	07/29/21 16:31	1
2-Methylphenol	ND		0.0050	0.00040	mg/L		07/28/21 15:12	07/29/21 16:31	1
3-Methylphenol	ND		0.010	0.00040	mg/L		07/28/21 15:12	07/29/21 16:31	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-187617-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 480-590798/1-A

Matrix: Solid

Analysis Batch: 590902

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 590798

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methylphenol	ND		0.010	0.00035	mg/L		07/28/21 15:12	07/29/21 16:31	1
Hexachlorobenzene	ND		0.0050	0.00050	mg/L		07/28/21 15:12	07/29/21 16:31	1
Hexachlorobutadiene	ND		0.0050	0.00068	mg/L		07/28/21 15:12	07/29/21 16:31	1
Hexachloroethane	ND		0.0050	0.00058	mg/L		07/28/21 15:12	07/29/21 16:31	1
Nitrobenzene	ND		0.0050	0.00028	mg/L		07/28/21 15:12	07/29/21 16:31	1
Pentachlorophenol	ND		0.010	0.0022	mg/L		07/28/21 15:12	07/29/21 16:31	1
Pyridine	ND		0.025	0.00040	mg/L		07/28/21 15:12	07/29/21 16:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		41 - 120	07/28/21 15:12	07/29/21 16:31	1
2-Fluorobiphenyl	100		48 - 120	07/28/21 15:12	07/29/21 16:31	1
2-Fluorophenol (Surr)	53		35 - 120	07/28/21 15:12	07/29/21 16:31	1
Nitrobenzene-d5 (Surr)	94		46 - 120	07/28/21 15:12	07/29/21 16:31	1
p-Terphenyl-d14 (Surr)	108		60 - 148	07/28/21 15:12	07/29/21 16:31	1
Phenol-d5 (Surr)	38		22 - 120	07/28/21 15:12	07/29/21 16:31	1

Lab Sample ID: LCS 480-590798/2-A

Matrix: Solid

Analysis Batch: 590902

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 590798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0500	0.0451		mg/L		90	51 - 120
2,4-Dinitrotoluene	0.0500	0.0561		mg/L		112	69 - 120
2,4,5-Trichlorophenol	0.0500	0.0547		mg/L		109	65 - 126
2,4,6-Trichlorophenol	0.0500	0.0533		mg/L		107	64 - 120
2-Methylphenol	0.0500	0.0448		mg/L		90	39 - 120
3-Methylphenol	0.0500	0.0426		mg/L		85	39 - 120
4-Methylphenol	0.0500	0.0426		mg/L		85	29 - 131
Hexachlorobenzene	0.0500	0.0549		mg/L		110	61 - 120
Hexachlorobutadiene	0.0500	0.0492		mg/L		98	35 - 120
Hexachloroethane	0.0500	0.0441		mg/L		88	43 - 120
Nitrobenzene	0.0500	0.0498		mg/L		100	53 - 123
Pentachlorophenol	0.100	0.0966		mg/L		97	29 - 136
Pyridine	0.100	0.0267		mg/L		27	10 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	109		41 - 120
2-Fluorobiphenyl	103		48 - 120
2-Fluorophenol (Surr)	56		35 - 120
Nitrobenzene-d5 (Surr)	100		46 - 120
p-Terphenyl-d14 (Surr)	113		60 - 148
Phenol-d5 (Surr)	40		22 - 120

QC Sample Results

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-187617-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 480-590798/3-A

Matrix: Solid

Analysis Batch: 590902

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 590798

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	RPD Limit
1,4-Dichlorobenzene	0.0500	0.0452		mg/L		90	51 - 120		0	36
2,4-Dinitrotoluene	0.0500	0.0573		mg/L		115	69 - 120		2	20
2,4,5-Trichlorophenol	0.0500	0.0561		mg/L		112	65 - 126		3	18
2,4,6-Trichlorophenol	0.0500	0.0550		mg/L		110	64 - 120		3	19
2-Methylphenol	0.0500	0.0452		mg/L		90	39 - 120		1	27
3-Methylphenol	0.0500	0.0439		mg/L		88	39 - 120		3	30
4-Methylphenol	0.0500	0.0439		mg/L		88	29 - 131		3	24
Hexachlorobenzene	0.0500	0.0544		mg/L		109	61 - 120		1	15
Hexachlorobutadiene	0.0500	0.0513		mg/L		103	35 - 120		4	44
Hexachloroethane	0.0500	0.0443		mg/L		89	43 - 120		0	46
Nitrobenzene	0.0500	0.0491		mg/L		98	53 - 123		1	24
Pentachlorophenol	0.100	0.0970		mg/L		97	29 - 136		0	37
Pyridine	0.100	0.0345		mg/L		35	10 - 120		26	49

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	112		41 - 120
2-Fluorobiphenyl	104		48 - 120
2-Fluorophenol (Surr)	55		35 - 120
Nitrobenzene-d5 (Surr)	101		46 - 120
p-Terphenyl-d14 (Surr)	112		60 - 148
Phenol-d5 (Surr)	41		22 - 120

Lab Sample ID: LB 480-590592/1-D

Matrix: Solid

Analysis Batch: 590902

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 590798

Analyte	LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dichlorobenzene	ND		0.040	0.0018	mg/L		07/28/21 15:12	07/29/21 17:45	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		07/28/21 15:12	07/29/21 17:45	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		07/28/21 15:12	07/29/21 17:45	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		07/28/21 15:12	07/29/21 17:45	1
2-Methylphenol	ND		0.020	0.0016	mg/L		07/28/21 15:12	07/29/21 17:45	1
3-Methylphenol	ND		0.040	0.0016	mg/L		07/28/21 15:12	07/29/21 17:45	1
4-Methylphenol	ND		0.040	0.0014	mg/L		07/28/21 15:12	07/29/21 17:45	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		07/28/21 15:12	07/29/21 17:45	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		07/28/21 15:12	07/29/21 17:45	1
Hexachloroethane	ND		0.020	0.0023	mg/L		07/28/21 15:12	07/29/21 17:45	1
Nitrobenzene	ND		0.020	0.0011	mg/L		07/28/21 15:12	07/29/21 17:45	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		07/28/21 15:12	07/29/21 17:45	1
Pyridine	ND		0.10	0.0016	mg/L		07/28/21 15:12	07/29/21 17:45	1

Surrogate	LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	97		41 - 120	07/28/21 15:12	07/29/21 17:45	1
2-Fluorobiphenyl	96		48 - 120	07/28/21 15:12	07/29/21 17:45	1
2-Fluorophenol (Surr)	51		35 - 120	07/28/21 15:12	07/29/21 17:45	1
Nitrobenzene-d5 (Surr)	89		46 - 120	07/28/21 15:12	07/29/21 17:45	1
p-Terphenyl-d14 (Surr)	109		60 - 148	07/28/21 15:12	07/29/21 17:45	1
Phenol-d5 (Surr)	37		22 - 120	07/28/21 15:12	07/29/21 17:45	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-187617-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: LB 480-590595/1-B

Matrix: Solid

Analysis Batch: 590902

Client Sample ID: Method Blank

Prep Type: SPLP East

Prep Batch: 590798

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.040	0.0018	mg/L		07/28/21 15:12	07/29/21 18:10	1
2,4-Dinitrotoluene	ND		0.020	0.0017	mg/L		07/28/21 15:12	07/29/21 18:10	1
2,4,5-Trichlorophenol	ND		0.020	0.0019	mg/L		07/28/21 15:12	07/29/21 18:10	1
2,4,6-Trichlorophenol	ND		0.020	0.0024	mg/L		07/28/21 15:12	07/29/21 18:10	1
2-Methylphenol	ND		0.020	0.0016	mg/L		07/28/21 15:12	07/29/21 18:10	1
3-Methylphenol	ND		0.040	0.0016	mg/L		07/28/21 15:12	07/29/21 18:10	1
4-Methylphenol	ND		0.040	0.0014	mg/L		07/28/21 15:12	07/29/21 18:10	1
Hexachlorobenzene	ND		0.020	0.0020	mg/L		07/28/21 15:12	07/29/21 18:10	1
Hexachlorobutadiene	ND		0.020	0.0027	mg/L		07/28/21 15:12	07/29/21 18:10	1
Hexachloroethane	ND		0.020	0.0023	mg/L		07/28/21 15:12	07/29/21 18:10	1
Nitrobenzene	ND		0.020	0.0011	mg/L		07/28/21 15:12	07/29/21 18:10	1
Pentachlorophenol	ND		0.040	0.0088	mg/L		07/28/21 15:12	07/29/21 18:10	1
Pyridine	ND		0.10	0.0016	mg/L		07/28/21 15:12	07/29/21 18:10	1

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	94		41 - 120	07/28/21 15:12	07/29/21 18:10	1
2-Fluorobiphenyl	94		48 - 120	07/28/21 15:12	07/29/21 18:10	1
2-Fluorophenol (Surr)	48		35 - 120	07/28/21 15:12	07/29/21 18:10	1
Nitrobenzene-d5 (Surr)	88		46 - 120	07/28/21 15:12	07/29/21 18:10	1
p-Terphenyl-d14 (Surr)	105		60 - 148	07/28/21 15:12	07/29/21 18:10	1
Phenol-d5 (Surr)	36		22 - 120	07/28/21 15:12	07/29/21 18:10	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-512646/1-A

Matrix: Solid

Analysis Batch: 513625

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 512646

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		5.0	2.4	ng/L		08/03/21 13:01	08/05/21 01:25	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.49	ng/L		08/03/21 13:01	08/05/21 01:25	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.58	ng/L		08/03/21 13:01	08/05/21 01:25	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.25	ng/L		08/03/21 13:01	08/05/21 01:25	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.85	ng/L		08/03/21 13:01	08/05/21 01:25	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		08/03/21 13:01	08/05/21 01:25	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.31	ng/L		08/03/21 13:01	08/05/21 01:25	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1	ng/L		08/03/21 13:01	08/05/21 01:25	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		08/03/21 13:01	08/05/21 01:25	1
Perfluorotridecanoic acid (PFTriDA)	ND		2.0	1.3	ng/L		08/03/21 13:01	08/05/21 01:25	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.73	ng/L		08/03/21 13:01	08/05/21 01:25	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.20	ng/L		08/03/21 13:01	08/05/21 01:25	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.57	ng/L		08/03/21 13:01	08/05/21 01:25	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.19	ng/L		08/03/21 13:01	08/05/21 01:25	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.54	ng/L		08/03/21 13:01	08/05/21 01:25	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32	ng/L		08/03/21 13:01	08/05/21 01:25	1
Perfluorooctanesulfonamide (FOSA)	ND		2.0	0.98	ng/L		08/03/21 13:01	08/05/21 01:25	1
NMeFOSAA	ND		5.0	1.2	ng/L		08/03/21 13:01	08/05/21 01:25	1
NEtFOSAA	ND		5.0	1.3	ng/L		08/03/21 13:01	08/05/21 01:25	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.

Job ID: 480-187617-1

Project/Site: Old Moreau Dredge Spoil Area #546040

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-512646/1-A

Matrix: Solid

Analysis Batch: 513625

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 512646

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	ND		5.0	2.5	ng/L		08/03/21 13:01	08/05/21 01:25	1
8:2 FTS	ND		2.0	0.46	ng/L		08/03/21 13:01	08/05/21 01:25	1
Isotope Dilution	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	88		25 - 150				08/03/21 13:01	08/05/21 01:25	1
13C5 PFPeA	85		25 - 150				08/03/21 13:01	08/05/21 01:25	1
13C2 PFHxA	93		25 - 150				08/03/21 13:01	08/05/21 01:25	1
13C4 PFHpA	106		25 - 150				08/03/21 13:01	08/05/21 01:25	1
13C4 PFOA	87		25 - 150				08/03/21 13:01	08/05/21 01:25	1
13C5 PFNA	88		25 - 150				08/03/21 13:01	08/05/21 01:25	1
13C2 PFDA	105		25 - 150				08/03/21 13:01	08/05/21 01:25	1
13C2 PFUnA	87		25 - 150				08/03/21 13:01	08/05/21 01:25	1
13C2 PFDoA	94		25 - 150				08/03/21 13:01	08/05/21 01:25	1
13C2 PFTeDA	90		25 - 150				08/03/21 13:01	08/05/21 01:25	1
13C3 PFBS	99		25 - 150				08/03/21 13:01	08/05/21 01:25	1
18O2 PFHxS	93		25 - 150				08/03/21 13:01	08/05/21 01:25	1
13C4 PFOS	85		25 - 150				08/03/21 13:01	08/05/21 01:25	1
13C8 FOSA	92		25 - 150				08/03/21 13:01	08/05/21 01:25	1
d3-NMeFOSAA	84		25 - 150				08/03/21 13:01	08/05/21 01:25	1
d5-NEtFOSAA	89		25 - 150				08/03/21 13:01	08/05/21 01:25	1
M2-6:2 FTS	101		25 - 150				08/03/21 13:01	08/05/21 01:25	1
M2-8:2 FTS	93		25 - 150				08/03/21 13:01	08/05/21 01:25	1

Lab Sample ID: LCS 320-512646/2-A

Matrix: Solid

Analysis Batch: 513625

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 512646

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	44.0		ng/L		110	76 - 136
Perfluoropentanoic acid (PFPeA)	40.0	45.6		ng/L		114	71 - 131
Perfluorohexanoic acid (PFHxA)	40.0	40.7		ng/L		102	73 - 133
Perfluoroheptanoic acid (PFHpA)	40.0	42.9		ng/L		107	72 - 132
Perfluorooctanoic acid (PFOA)	40.0	46.3		ng/L		116	70 - 130
Perfluorononanoic acid (PFNA)	40.0	42.6		ng/L		107	75 - 135
Perfluorodecanoic acid (PFDA)	40.0	43.5		ng/L		109	76 - 136
Perfluoroundecanoic acid (PFUnA)	40.0	45.5		ng/L		114	68 - 128
Perfluorododecanoic acid (PFDoA)	40.0	42.9		ng/L		107	71 - 131
Perfluorotridecanoic acid (PFTTrDA)	40.0	49.9		ng/L		125	71 - 131
Perfluorotetradecanoic acid (PFTeA)	40.0	43.1		ng/L		108	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	33.3		ng/L		94	67 - 127
Perfluorohexanesulfonic acid (PFHxS)	36.4	37.7		ng/L		104	59 - 119
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	42.7		ng/L		112	76 - 136
Perfluorooctanesulfonic acid (PFOS)	37.1	40.5		ng/L		109	70 - 130

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-187617-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-512646/2-A

Matrix: Solid

Analysis Batch: 513625

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 512646

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorodecanesulfonic acid (PFDS)	38.6	42.1		ng/L		109	71 - 131
Perfluorooctanesulfonamide (FOSA)	40.0	40.6		ng/L		101	73 - 133
NMeFOSAA	40.0	47.1		ng/L		118	76 - 136
NEtFOSAA	40.0	40.8		ng/L		102	76 - 136
6:2 FTS	37.9	40.5		ng/L		107	59 - 175
8:2 FTS	38.3	41.2		ng/L		107	75 - 135

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C4 PFBA	93		25 - 150
13C5 PFPeA	90		25 - 150
13C2 PFHxA	102		25 - 150
13C4 PFHpA	101		25 - 150
13C4 PFOA	100		25 - 150
13C5 PFNA	101		25 - 150
13C2 PFDA	94		25 - 150
13C2 PFUnA	94		25 - 150
13C2 PFDoA	93		25 - 150
13C2 PFTeDA	94		25 - 150
13C3 PFBS	108		25 - 150
18O2 PFHxS	95		25 - 150
13C4 PFOS	91		25 - 150
13C8 FOSA	96		25 - 150
d3-NMeFOSAA	91		25 - 150
d5-NEtFOSAA	105		25 - 150
M2-6:2 FTS	102		25 - 150
M2-8:2 FTS	95		25 - 150

Lab Sample ID: LB 320-510957/1-C

Matrix: Solid

Analysis Batch: 513625

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 512646

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	14.3		4.4	2.1	ng/L		08/03/21 13:01	08/05/21 02:38	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.43	ng/L		08/03/21 13:01	08/05/21 02:38	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.51	ng/L		08/03/21 13:01	08/05/21 02:38	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.22	ng/L		08/03/21 13:01	08/05/21 02:38	1
Perfluorooctanoic acid (PFOA)	ND		1.7	0.74	ng/L		08/03/21 13:01	08/05/21 02:38	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.24	ng/L		08/03/21 13:01	08/05/21 02:38	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.27	ng/L		08/03/21 13:01	08/05/21 02:38	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.96	ng/L		08/03/21 13:01	08/05/21 02:38	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.48	ng/L		08/03/21 13:01	08/05/21 02:38	1
Perfluorotridecanoic acid (PFTriDA)	ND		1.7	1.1	ng/L		08/03/21 13:01	08/05/21 02:38	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.64	ng/L		08/03/21 13:01	08/05/21 02:38	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.17	ng/L		08/03/21 13:01	08/05/21 02:38	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.7	0.50	ng/L		08/03/21 13:01	08/05/21 02:38	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.17	ng/L		08/03/21 13:01	08/05/21 02:38	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.47	ng/L		08/03/21 13:01	08/05/21 02:38	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-187617-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LB 320-510957/1-C

Matrix: Solid

Analysis Batch: 513625

Client Sample ID: Method Blank

Prep Type: TCLP

Prep Batch: 512646

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.28	ng/L		08/03/21 13:01	08/05/21 02:38	1
Perfluorooctanesulfonamide (FOSA)	ND		1.7	0.86	ng/L		08/03/21 13:01	08/05/21 02:38	1
NMeFOSAA	ND		4.4	1.0	ng/L		08/03/21 13:01	08/05/21 02:38	1
NEtFOSAA	ND		4.4	1.1	ng/L		08/03/21 13:01	08/05/21 02:38	1
6:2 FTS	ND		4.4	2.2	ng/L		08/03/21 13:01	08/05/21 02:38	1
8:2 FTS	ND		1.7	0.40	ng/L		08/03/21 13:01	08/05/21 02:38	1

Isotope Dilution	LB %Recovery	LB Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	93		25 - 150				08/03/21 13:01	08/05/21 02:38	1
13C5 PFPeA	90		25 - 150				08/03/21 13:01	08/05/21 02:38	1
13C2 PFHxA	97		25 - 150				08/03/21 13:01	08/05/21 02:38	1
13C4 PFHpA	102		25 - 150				08/03/21 13:01	08/05/21 02:38	1
13C4 PFOA	98		25 - 150				08/03/21 13:01	08/05/21 02:38	1
13C5 PFNA	96		25 - 150				08/03/21 13:01	08/05/21 02:38	1
13C2 PFDA	99		25 - 150				08/03/21 13:01	08/05/21 02:38	1
13C2 PFUnA	99		25 - 150				08/03/21 13:01	08/05/21 02:38	1
13C2 PFDoA	95		25 - 150				08/03/21 13:01	08/05/21 02:38	1
13C2 PFTeDA	93		25 - 150				08/03/21 13:01	08/05/21 02:38	1
13C3 PFBS	106		25 - 150				08/03/21 13:01	08/05/21 02:38	1
18O2 PFHxS	97		25 - 150				08/03/21 13:01	08/05/21 02:38	1
13C4 PFOS	89		25 - 150				08/03/21 13:01	08/05/21 02:38	1
13C8 FOSA	98		25 - 150				08/03/21 13:01	08/05/21 02:38	1
d3-NMeFOSAA	84		25 - 150				08/03/21 13:01	08/05/21 02:38	1
d5-NEtFOSAA	96		25 - 150				08/03/21 13:01	08/05/21 02:38	1
M2-6:2 FTS	102		25 - 150				08/03/21 13:01	08/05/21 02:38	1
M2-8:2 FTS	103		25 - 150				08/03/21 13:01	08/05/21 02:38	1

Lab Sample ID: LB 320-511099/1-B

Matrix: Solid

Analysis Batch: 513625

Client Sample ID: Method Blank

Prep Type: SPLP East

Prep Batch: 512646

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.8	2.3	ng/L		08/03/21 13:01	08/05/21 03:14	1
Perfluoropentanoic acid (PFPeA)	ND		1.9	0.47	ng/L		08/03/21 13:01	08/05/21 03:14	1
Perfluorohexanoic acid (PFHxA)	ND		1.9	0.56	ng/L		08/03/21 13:01	08/05/21 03:14	1
Perfluoroheptanoic acid (PFHpA)	ND		1.9	0.24	ng/L		08/03/21 13:01	08/05/21 03:14	1
Perfluorooctanoic acid (PFOA)	ND		1.9	0.82	ng/L		08/03/21 13:01	08/05/21 03:14	1
Perfluorononanoic acid (PFNA)	ND		1.9	0.26	ng/L		08/03/21 13:01	08/05/21 03:14	1
Perfluorodecanoic acid (PFDA)	ND		1.9	0.30	ng/L		08/03/21 13:01	08/05/21 03:14	1
Perfluoroundecanoic acid (PFUnA)	ND		1.9	1.1	ng/L		08/03/21 13:01	08/05/21 03:14	1
Perfluorododecanoic acid (PFDoA)	ND		1.9	0.53	ng/L		08/03/21 13:01	08/05/21 03:14	1
Perfluorotridecanoic acid (PFTeDA)	ND		1.9	1.3	ng/L		08/03/21 13:01	08/05/21 03:14	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.9	0.71	ng/L		08/03/21 13:01	08/05/21 03:14	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.9	0.19	ng/L		08/03/21 13:01	08/05/21 03:14	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.9	0.55	ng/L		08/03/21 13:01	08/05/21 03:14	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.9	0.18	ng/L		08/03/21 13:01	08/05/21 03:14	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.9	0.52	ng/L		08/03/21 13:01	08/05/21 03:14	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.9	0.31	ng/L		08/03/21 13:01	08/05/21 03:14	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.

Job ID: 480-187617-1

Project/Site: Old Moreau Dredge Spoil Area #546040

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LB 320-511099/1-B

Matrix: Solid

Analysis Batch: 513625

Client Sample ID: Method Blank

Prep Type: SPLP East

Prep Batch: 512646

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonamide (FOSA)	ND		1.9	0.95	ng/L		08/03/21 13:01	08/05/21 03:14	1
NMeFOSAA	ND		4.8	1.2	ng/L		08/03/21 13:01	08/05/21 03:14	1
NEtFOSAA	ND		4.8	1.3	ng/L		08/03/21 13:01	08/05/21 03:14	1
6:2 FTS	ND		4.8	2.4	ng/L		08/03/21 13:01	08/05/21 03:14	1
8:2 FTS	ND		1.9	0.44	ng/L		08/03/21 13:01	08/05/21 03:14	1
Isotope Dilution	LB %Recovery	LB Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	94		25 - 150				08/03/21 13:01	08/05/21 03:14	1
13C5 PFPeA	89		25 - 150				08/03/21 13:01	08/05/21 03:14	1
13C2 PFHxA	101		25 - 150				08/03/21 13:01	08/05/21 03:14	1
13C4 PFHpA	105		25 - 150				08/03/21 13:01	08/05/21 03:14	1
13C4 PFOA	97		25 - 150				08/03/21 13:01	08/05/21 03:14	1
13C5 PFNA	102		25 - 150				08/03/21 13:01	08/05/21 03:14	1
13C2 PFDA	111		25 - 150				08/03/21 13:01	08/05/21 03:14	1
13C2 PFUnA	98		25 - 150				08/03/21 13:01	08/05/21 03:14	1
13C2 PFDoA	99		25 - 150				08/03/21 13:01	08/05/21 03:14	1
13C2 PFTeDA	101		25 - 150				08/03/21 13:01	08/05/21 03:14	1
13C3 PFBS	106		25 - 150				08/03/21 13:01	08/05/21 03:14	1
18O2 PFHxS	100		25 - 150				08/03/21 13:01	08/05/21 03:14	1
13C4 PFOS	94		25 - 150				08/03/21 13:01	08/05/21 03:14	1
13C8 FOSA	99		25 - 150				08/03/21 13:01	08/05/21 03:14	1
d3-NMeFOSAA	89		25 - 150				08/03/21 13:01	08/05/21 03:14	1
d5-NEtFOSAA	97		25 - 150				08/03/21 13:01	08/05/21 03:14	1
M2-6:2 FTS	99		25 - 150				08/03/21 13:01	08/05/21 03:14	1
M2-8:2 FTS	97		25 - 150				08/03/21 13:01	08/05/21 03:14	1

QC Association Summary

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-187617-1

GC/MS VOA

Leach Batch: 590594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187617-1	OM-PLASTIC-07232021	TCLP	Solid	1311	
LB 480-590594/1-A	Method Blank	TCLP	Solid	1311	

Leach Batch: 590596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187617-1	OM-PLASTIC-07232021	SPLP	Solid	1312	
LB 480-590596/1-A	Method Blank	SPLP	Solid	1312	

Analysis Batch: 590975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187617-1	OM-PLASTIC-07232021	SPLP	Solid	8260C	590596
480-187617-1	OM-PLASTIC-07232021	TCLP	Solid	8260C	590594
LB 480-590594/1-A	Method Blank	TCLP	Solid	8260C	590594
LB 480-590596/1-A	Method Blank	SPLP	Solid	8260C	590596
MB 480-590975/8	Method Blank	Total/NA	Solid	8260C	
LCS 480-590975/6	Lab Control Sample	Total/NA	Solid	8260C	

GC/MS Semi VOA

Leach Batch: 590592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187617-1	OM-PLASTIC-07232021	TCLP	Solid	1311	
LB 480-590592/1-D	Method Blank	TCLP	Solid	1311	

Leach Batch: 590595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187617-1	OM-PLASTIC-07232021	SPLP East	Solid	1312	
LB 480-590595/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 590798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187617-1	OM-PLASTIC-07232021	SPLP East	Solid	3510C	590595
480-187617-1	OM-PLASTIC-07232021	TCLP	Solid	3510C	590592
LB 480-590592/1-D	Method Blank	TCLP	Solid	3510C	590592
LB 480-590595/1-B	Method Blank	SPLP East	Solid	3510C	590595
MB 480-590798/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 480-590798/2-A	Lab Control Sample	Total/NA	Solid	3510C	
LCSD 480-590798/3-A	Lab Control Sample Dup	Total/NA	Solid	3510C	

Analysis Batch: 590902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187617-1	OM-PLASTIC-07232021	SPLP East	Solid	8270D	590798
480-187617-1	OM-PLASTIC-07232021	TCLP	Solid	8270D	590798
LB 480-590592/1-D	Method Blank	TCLP	Solid	8270D	590798
LB 480-590595/1-B	Method Blank	SPLP East	Solid	8270D	590798
MB 480-590798/1-A	Method Blank	Total/NA	Solid	8270D	590798
LCS 480-590798/2-A	Lab Control Sample	Total/NA	Solid	8270D	590798
LCSD 480-590798/3-A	Lab Control Sample Dup	Total/NA	Solid	8270D	590798

QC Association Summary

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-187617-1

LCMS

Leach Batch: 510957

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187617-1	OM-PLASTIC-07232021	TCLP	Solid	1311	
LB 320-510957/1-C	Method Blank	TCLP	Solid	1311	

Leach Batch: 511099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187617-1	OM-PLASTIC-07232021	SPLP East	Solid	1312	
LB 320-511099/1-B	Method Blank	SPLP East	Solid	1312	

Prep Batch: 512646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187617-1	OM-PLASTIC-07232021	SPLP East	Solid	3535	511099
480-187617-1	OM-PLASTIC-07232021	TCLP	Solid	3535	510957
LB 320-510957/1-C	Method Blank	TCLP	Solid	3535	510957
LB 320-511099/1-B	Method Blank	SPLP East	Solid	3535	511099
MB 320-512646/1-A	Method Blank	Total/NA	Solid	3535	
LCS 320-512646/2-A	Lab Control Sample	Total/NA	Solid	3535	

Analysis Batch: 513625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187617-1	OM-PLASTIC-07232021	SPLP East	Solid	537 (modified)	512646
480-187617-1	OM-PLASTIC-07232021	TCLP	Solid	537 (modified)	512646
LB 320-510957/1-C	Method Blank	TCLP	Solid	537 (modified)	512646
LB 320-511099/1-B	Method Blank	SPLP East	Solid	537 (modified)	512646
MB 320-512646/1-A	Method Blank	Total/NA	Solid	537 (modified)	512646
LCS 320-512646/2-A	Lab Control Sample	Total/NA	Solid	537 (modified)	512646

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-187617-1

Client Sample ID: OM-PLASTIC-07232021

Lab Sample ID: 480-187617-1

Date Collected: 07/23/21 09:10

Matrix: Solid

Date Received: 07/24/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
SPLP	Leach	1312			590596	07/27/21 13:08	LMS	TAL BUF
SPLP	Analysis	8260C		10	590975	07/30/21 07:21	CRL	TAL BUF
TCLP	Leach	1311			590594	07/27/21 13:06	LMS	TAL BUF
TCLP	Analysis	8260C		10	590975	07/30/21 08:51	CRL	TAL BUF
SPLP East	Leach	1312			590595	07/27/21 13:07	LMS	TAL BUF
SPLP East	Prep	3510C			590798	07/28/21 15:12	CMC	TAL BUF
SPLP East	Analysis	8270D		1	590902	07/29/21 21:01	JMM	TAL BUF
TCLP	Leach	1311			590592	07/27/21 13:05	LMS	TAL BUF
TCLP	Prep	3510C			590798	07/28/21 15:12	CMC	TAL BUF
TCLP	Analysis	8270D		1	590902	07/29/21 19:25	JMM	TAL BUF
SPLP East	Leach	1312			511099	07/29/21 14:29	JLV	TAL SAC
SPLP East	Prep	3535			512646	08/03/21 13:01	KJW	TAL SAC
SPLP East	Analysis	537 (modified)		1	513625	08/05/21 03:23	JRB	TAL SAC
TCLP	Leach	1311			510957	07/28/21 21:17	CF	TAL SAC
TCLP	Prep	3535			512646	08/03/21 13:01	KJW	TAL SAC
TCLP	Analysis	537 (modified)		1	513625	08/05/21 02:47	JRB	TAL SAC

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: Old Moreau Dredge Spoil Area #546040

Job ID: 480-187617-1

Laboratory: Eurofins TestAmerica, Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

Laboratory: Eurofins TestAmerica, Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11666	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537 (modified)	3535	Solid	6:2 FTS
537 (modified)	3535	Solid	8:2 FTS
537 (modified)	3535	Solid	NEtFOSAA
537 (modified)	3535	Solid	NMeFOSAA
537 (modified)	3535	Solid	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	3535	Solid	Perfluorobutanoic acid (PFBA)
537 (modified)	3535	Solid	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	3535	Solid	Perfluorodecanoic acid (PFDA)
537 (modified)	3535	Solid	Perfluorododecanoic acid (PFDoA)
537 (modified)	3535	Solid	Perfluoroheptanesulfonic Acid (PFHpS)
537 (modified)	3535	Solid	Perfluoroheptanoic acid (PFHpA)
537 (modified)	3535	Solid	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	3535	Solid	Perfluorohexanoic acid (PFHxA)
537 (modified)	3535	Solid	Perfluorononanoic acid (PFNA)
537 (modified)	3535	Solid	Perfluorooctanesulfonamide (FOSA)
537 (modified)	3535	Solid	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	3535	Solid	Perfluorooctanoic acid (PFOA)
537 (modified)	3535	Solid	Perfluoropentanoic acid (PFPeA)
537 (modified)	3535	Solid	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	3535	Solid	Perfluorotridecanoic acid (PFTTrDA)
537 (modified)	3535	Solid	Perfluoroundecanoic acid (PFUnA)

Method Summary

Client: New York State D.E.C.

Job ID: 480-187617-1

Project/Site: Old Moreau Dredge Spoil Area #546040

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
1311	TCLP Extraction	SW846	TAL BUF
1311	TCLP Extraction	SW846	TAL SAC
1312	SPLP Extraction	SW846	TAL BUF
1312	SPLP Extraction	SW846	TAL SAC
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL SAC = Eurofins TestAmerica, Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: New York State D.E.C.

Job ID: 480-187617-1

Project/Site: Old Moreau Dredge Spoil Area #546040

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-187617-1	OM-PLASTIC-07232021	Solid	07/23/21 09:10	07/24/21 08:00

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[illegible]

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-187617-1

Login Number: 187617

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-187617-1

Login Number: 187617

List Source: Eurofins TestAmerica, Sacramento

List Number: 2

List Creation: 07/27/21 07:40 PM

Creator: Cahill, Nicholas P

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	1558420
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.7C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Eurofins TestAmerica, Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

Laboratory Job ID: 480-187618-1

Client Project/Site: Special Area 13 Dredge Spoil #546041

For:

New York State D.E.C.
625 Broadway
12th Floor
Albany, New York 12233-7017

Attn: John L Armitage



Authorized for release by:

8/6/2021 10:52:55 AM

Rebecca Jones, Project Management Assistant I

Rebecca.Jones@Eurofinset.com

Designee for

Judy Stone, Senior Project Manager

(484)685-0868

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Rebecca Jones
Project Management Assistant I
8/6/2021 10:52:55 AM

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Definitions/Glossary

Client: New York State D.E.C.

Job ID: 480-187618-1

Project/Site: Special Area 13 Dredge Spoil #546041

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: New York State D.E.C.
Project/Site: Special Area 13 Dredge Spoil #546041

Job ID: 480-187618-1

Job ID: 480-187618-1

Laboratory: Eurofins TestAmerica, Buffalo

Narrative

Job Narrative
480-187618-1

Comments

No additional comments.

Receipt

The samples were received on 7/24/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4° C.

GC Semi VOA

Method 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: GP01-01 (480-187618-2) and GP04-01 (480-187618-8). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3550C: The following samples: GP01-02 (480-187618-1) and GP02-02 (480-187618-4) was decanted prior to preparation.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: New York State D.E.C.
Project/Site: Special Area 13 Dredge Spoil #546041

Job ID: 480-187618-1

Client Sample ID: GP01-02

Lab Sample ID: 480-187618-1

No Detections.

Client Sample ID: GP01-01

Lab Sample ID: 480-187618-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	14		1.4		mg/Kg	5	✱	8082A	Total/NA

Client Sample ID: GP02-01

Lab Sample ID: 480-187618-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	6.2		0.29		mg/Kg	1	✱	8082A	Total/NA

Client Sample ID: GP02-02

Lab Sample ID: 480-187618-4

No Detections.

Client Sample ID: GP02-03

Lab Sample ID: 480-187618-5

No Detections.

Client Sample ID: GP03-01

Lab Sample ID: 480-187618-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	4.0		0.20		mg/Kg	1	✱	8082A	Total/NA

Client Sample ID: GP03-02

Lab Sample ID: 480-187618-7

No Detections.

Client Sample ID: GP04-01

Lab Sample ID: 480-187618-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1248	13		2.3		mg/Kg	10	✱	8082A	Total/NA

Client Sample ID: GP04-02

Lab Sample ID: 480-187618-9

No Detections.

Client Sample ID: GPFD-01

Lab Sample ID: 480-187618-10

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: Special Area 13 Dredge Spoil #546041

Job ID: 480-187618-1

Client Sample ID: GP01-02

Lab Sample ID: 480-187618-1

Date Collected: 07/23/21 11:00

Matrix: Solid

Date Received: 07/24/21 08:00

Percent Solids: 69.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27		mg/Kg	☼	07/28/21 08:14	08/02/21 03:12	1
PCB-1221	ND		0.27		mg/Kg	☼	07/28/21 08:14	08/02/21 03:12	1
PCB-1232	ND		0.27		mg/Kg	☼	07/28/21 08:14	08/02/21 03:12	1
PCB-1242	ND		0.27		mg/Kg	☼	07/28/21 08:14	08/02/21 03:12	1
PCB-1248	ND		0.27		mg/Kg	☼	07/28/21 08:14	08/02/21 03:12	1
PCB-1254	ND		0.27		mg/Kg	☼	07/28/21 08:14	08/02/21 03:12	1
PCB-1260	ND		0.27		mg/Kg	☼	07/28/21 08:14	08/02/21 03:12	1
PCB-1262	ND		0.27		mg/Kg	☼	07/28/21 08:14	08/02/21 03:12	1
PCB-1268	ND		0.27		mg/Kg	☼	07/28/21 08:14	08/02/21 03:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	110		60 - 154	07/28/21 08:14	08/02/21 03:12	1
Tetrachloro-m-xylene	113		60 - 154	07/28/21 08:14	08/02/21 03:12	1
DCB Decachlorobiphenyl	126		65 - 174	07/28/21 08:14	08/02/21 03:12	1
DCB Decachlorobiphenyl	119		65 - 174	07/28/21 08:14	08/02/21 03:12	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Special Area 13 Dredge Spoil #546041

Job ID: 480-187618-1

Client Sample ID: GP01-01

Lab Sample ID: 480-187618-2

Date Collected: 07/23/21 10:50

Matrix: Solid

Date Received: 07/24/21 08:00

Percent Solids: 75.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		1.4		mg/Kg	☼	07/28/21 08:14	08/02/21 16:51	5
PCB-1221	ND		1.4		mg/Kg	☼	07/28/21 08:14	08/02/21 16:51	5
PCB-1232	ND		1.4		mg/Kg	☼	07/28/21 08:14	08/02/21 16:51	5
PCB-1242	ND		1.4		mg/Kg	☼	07/28/21 08:14	08/02/21 16:51	5
PCB-1248	14		1.4		mg/Kg	☼	07/28/21 08:14	08/02/21 16:51	5
PCB-1254	ND		1.4		mg/Kg	☼	07/28/21 08:14	08/02/21 16:51	5
PCB-1260	ND		1.4		mg/Kg	☼	07/28/21 08:14	08/02/21 16:51	5
PCB-1262	ND		1.4		mg/Kg	☼	07/28/21 08:14	08/02/21 16:51	5
PCB-1268	ND		1.4		mg/Kg	☼	07/28/21 08:14	08/02/21 16:51	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	127		60 - 154	07/28/21 08:14	08/02/21 16:51	5
Tetrachloro-m-xylene	128		60 - 154	07/28/21 08:14	08/02/21 16:51	5
DCB Decachlorobiphenyl	170		65 - 174	07/28/21 08:14	08/02/21 16:51	5
DCB Decachlorobiphenyl	141		65 - 174	07/28/21 08:14	08/02/21 16:51	5

Client Sample Results

Client: New York State D.E.C.
Project/Site: Special Area 13 Dredge Spoil #546041

Job ID: 480-187618-1

Client Sample ID: GP02-01

Lab Sample ID: 480-187618-3

Date Collected: 07/23/21 11:45

Matrix: Solid

Date Received: 07/24/21 08:00

Percent Solids: 87.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.29		mg/Kg	☼	07/28/21 08:14	08/02/21 04:04	1
PCB-1221	ND		0.29		mg/Kg	☼	07/28/21 08:14	08/02/21 04:04	1
PCB-1232	ND		0.29		mg/Kg	☼	07/28/21 08:14	08/02/21 04:04	1
PCB-1242	ND		0.29		mg/Kg	☼	07/28/21 08:14	08/02/21 04:04	1
PCB-1248	6.2		0.29		mg/Kg	☼	07/28/21 08:14	08/02/21 04:04	1
PCB-1254	ND		0.29		mg/Kg	☼	07/28/21 08:14	08/02/21 04:04	1
PCB-1260	ND		0.29		mg/Kg	☼	07/28/21 08:14	08/02/21 04:04	1
PCB-1262	ND		0.29		mg/Kg	☼	07/28/21 08:14	08/02/21 04:04	1
PCB-1268	ND		0.29		mg/Kg	☼	07/28/21 08:14	08/02/21 04:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	112		60 - 154	07/28/21 08:14	08/02/21 04:04	1
Tetrachloro-m-xylene	112		60 - 154	07/28/21 08:14	08/02/21 04:04	1
DCB Decachlorobiphenyl	108		65 - 174	07/28/21 08:14	08/02/21 04:04	1
DCB Decachlorobiphenyl	108		65 - 174	07/28/21 08:14	08/02/21 04:04	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Special Area 13 Dredge Spoil #546041

Job ID: 480-187618-1

Client Sample ID: GP02-02

Lab Sample ID: 480-187618-4

Date Collected: 07/23/21 11:55

Matrix: Solid

Date Received: 07/24/21 08:00

Percent Solids: 62.4

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.33		mg/Kg	☼	07/28/21 08:14	08/02/21 04:17	1
PCB-1221	ND		0.33		mg/Kg	☼	07/28/21 08:14	08/02/21 04:17	1
PCB-1232	ND		0.33		mg/Kg	☼	07/28/21 08:14	08/02/21 04:17	1
PCB-1242	ND		0.33		mg/Kg	☼	07/28/21 08:14	08/02/21 04:17	1
PCB-1248	ND		0.33		mg/Kg	☼	07/28/21 08:14	08/02/21 04:17	1
PCB-1254	ND		0.33		mg/Kg	☼	07/28/21 08:14	08/02/21 04:17	1
PCB-1260	ND		0.33		mg/Kg	☼	07/28/21 08:14	08/02/21 04:17	1
PCB-1262	ND		0.33		mg/Kg	☼	07/28/21 08:14	08/02/21 04:17	1
PCB-1268	ND		0.33		mg/Kg	☼	07/28/21 08:14	08/02/21 04:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	115		60 - 154	07/28/21 08:14	08/02/21 04:17	1
Tetrachloro-m-xylene	119		60 - 154	07/28/21 08:14	08/02/21 04:17	1
DCB Decachlorobiphenyl	106		65 - 174	07/28/21 08:14	08/02/21 04:17	1
DCB Decachlorobiphenyl	107		65 - 174	07/28/21 08:14	08/02/21 04:17	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Special Area 13 Dredge Spoil #546041

Job ID: 480-187618-1

Client Sample ID: GP02-03

Lab Sample ID: 480-187618-5

Date Collected: 07/23/21 12:10

Matrix: Solid

Date Received: 07/24/21 08:00

Percent Solids: 83.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.21		mg/Kg	☼	07/28/21 08:14	08/02/21 04:30	1
PCB-1221	ND		0.21		mg/Kg	☼	07/28/21 08:14	08/02/21 04:30	1
PCB-1232	ND		0.21		mg/Kg	☼	07/28/21 08:14	08/02/21 04:30	1
PCB-1242	ND		0.21		mg/Kg	☼	07/28/21 08:14	08/02/21 04:30	1
PCB-1248	ND		0.21		mg/Kg	☼	07/28/21 08:14	08/02/21 04:30	1
PCB-1254	ND		0.21		mg/Kg	☼	07/28/21 08:14	08/02/21 04:30	1
PCB-1260	ND		0.21		mg/Kg	☼	07/28/21 08:14	08/02/21 04:30	1
PCB-1262	ND		0.21		mg/Kg	☼	07/28/21 08:14	08/02/21 04:30	1
PCB-1268	ND		0.21		mg/Kg	☼	07/28/21 08:14	08/02/21 04:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	115		60 - 154	07/28/21 08:14	08/02/21 04:30	1
Tetrachloro-m-xylene	116		60 - 154	07/28/21 08:14	08/02/21 04:30	1
DCB Decachlorobiphenyl	101		65 - 174	07/28/21 08:14	08/02/21 04:30	1
DCB Decachlorobiphenyl	99		65 - 174	07/28/21 08:14	08/02/21 04:30	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Special Area 13 Dredge Spoil #546041

Job ID: 480-187618-1

Client Sample ID: GP03-01

Lab Sample ID: 480-187618-6

Date Collected: 07/23/21 12:30

Matrix: Solid

Date Received: 07/24/21 08:00

Percent Solids: 87.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.20		mg/Kg	☼	07/28/21 08:14	08/02/21 04:42	1
PCB-1221	ND		0.20		mg/Kg	☼	07/28/21 08:14	08/02/21 04:42	1
PCB-1232	ND		0.20		mg/Kg	☼	07/28/21 08:14	08/02/21 04:42	1
PCB-1242	ND		0.20		mg/Kg	☼	07/28/21 08:14	08/02/21 04:42	1
PCB-1248	4.0		0.20		mg/Kg	☼	07/28/21 08:14	08/02/21 04:42	1
PCB-1254	ND		0.20		mg/Kg	☼	07/28/21 08:14	08/02/21 04:42	1
PCB-1260	ND		0.20		mg/Kg	☼	07/28/21 08:14	08/02/21 04:42	1
PCB-1262	ND		0.20		mg/Kg	☼	07/28/21 08:14	08/02/21 04:42	1
PCB-1268	ND		0.20		mg/Kg	☼	07/28/21 08:14	08/02/21 04:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	107		60 - 154	07/28/21 08:14	08/02/21 04:42	1
Tetrachloro-m-xylene	111		60 - 154	07/28/21 08:14	08/02/21 04:42	1
DCB Decachlorobiphenyl	106		65 - 174	07/28/21 08:14	08/02/21 04:42	1
DCB Decachlorobiphenyl	101		65 - 174	07/28/21 08:14	08/02/21 04:42	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Special Area 13 Dredge Spoil #546041

Job ID: 480-187618-1

Client Sample ID: GP03-02

Lab Sample ID: 480-187618-7

Date Collected: 07/23/21 12:35

Matrix: Solid

Date Received: 07/24/21 08:00

Percent Solids: 86.9

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.26		mg/Kg	☼	07/28/21 08:14	08/02/21 04:55	1
PCB-1221	ND		0.26		mg/Kg	☼	07/28/21 08:14	08/02/21 04:55	1
PCB-1232	ND		0.26		mg/Kg	☼	07/28/21 08:14	08/02/21 04:55	1
PCB-1242	ND		0.26		mg/Kg	☼	07/28/21 08:14	08/02/21 04:55	1
PCB-1248	ND		0.26		mg/Kg	☼	07/28/21 08:14	08/02/21 04:55	1
PCB-1254	ND		0.26		mg/Kg	☼	07/28/21 08:14	08/02/21 04:55	1
PCB-1260	ND		0.26		mg/Kg	☼	07/28/21 08:14	08/02/21 04:55	1
PCB-1262	ND		0.26		mg/Kg	☼	07/28/21 08:14	08/02/21 04:55	1
PCB-1268	ND		0.26		mg/Kg	☼	07/28/21 08:14	08/02/21 04:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	120		60 - 154	07/28/21 08:14	08/02/21 04:55	1
Tetrachloro-m-xylene	123		60 - 154	07/28/21 08:14	08/02/21 04:55	1
DCB Decachlorobiphenyl	117		65 - 174	07/28/21 08:14	08/02/21 04:55	1
DCB Decachlorobiphenyl	113		65 - 174	07/28/21 08:14	08/02/21 04:55	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Special Area 13 Dredge Spoil #546041

Job ID: 480-187618-1

Client Sample ID: GP04-01

Lab Sample ID: 480-187618-8

Date Collected: 07/23/21 13:20

Matrix: Solid

Date Received: 07/24/21 08:00

Percent Solids: 89.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		2.3		mg/Kg	☼	07/28/21 08:14	08/02/21 17:03	10
PCB-1221	ND		2.3		mg/Kg	☼	07/28/21 08:14	08/02/21 17:03	10
PCB-1232	ND		2.3		mg/Kg	☼	07/28/21 08:14	08/02/21 17:03	10
PCB-1242	ND		2.3		mg/Kg	☼	07/28/21 08:14	08/02/21 17:03	10
PCB-1248	13		2.3		mg/Kg	☼	07/28/21 08:14	08/02/21 17:03	10
PCB-1254	ND		2.3		mg/Kg	☼	07/28/21 08:14	08/02/21 17:03	10
PCB-1260	ND		2.3		mg/Kg	☼	07/28/21 08:14	08/02/21 17:03	10
PCB-1262	ND		2.3		mg/Kg	☼	07/28/21 08:14	08/02/21 17:03	10
PCB-1268	ND		2.3		mg/Kg	☼	07/28/21 08:14	08/02/21 17:03	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	130		60 - 154	07/28/21 08:14	08/02/21 17:03	10
Tetrachloro-m-xylene	131		60 - 154	07/28/21 08:14	08/02/21 17:03	10
DCB Decachlorobiphenyl	154		65 - 174	07/28/21 08:14	08/02/21 17:03	10
DCB Decachlorobiphenyl	134		65 - 174	07/28/21 08:14	08/02/21 17:03	10

Client Sample Results

Client: New York State D.E.C.
Project/Site: Special Area 13 Dredge Spoil #546041

Job ID: 480-187618-1

Client Sample ID: GP04-02

Lab Sample ID: 480-187618-9

Date Collected: 07/23/21 13:25

Matrix: Solid

Date Received: 07/24/21 08:00

Percent Solids: 89.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.25		mg/Kg	☼	07/28/21 08:14	08/02/21 05:21	1
PCB-1221	ND		0.25		mg/Kg	☼	07/28/21 08:14	08/02/21 05:21	1
PCB-1232	ND		0.25		mg/Kg	☼	07/28/21 08:14	08/02/21 05:21	1
PCB-1242	ND		0.25		mg/Kg	☼	07/28/21 08:14	08/02/21 05:21	1
PCB-1248	ND		0.25		mg/Kg	☼	07/28/21 08:14	08/02/21 05:21	1
PCB-1254	ND		0.25		mg/Kg	☼	07/28/21 08:14	08/02/21 05:21	1
PCB-1260	ND		0.25		mg/Kg	☼	07/28/21 08:14	08/02/21 05:21	1
PCB-1262	ND		0.25		mg/Kg	☼	07/28/21 08:14	08/02/21 05:21	1
PCB-1268	ND		0.25		mg/Kg	☼	07/28/21 08:14	08/02/21 05:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	122		60 - 154	07/28/21 08:14	08/02/21 05:21	1
Tetrachloro-m-xylene	128		60 - 154	07/28/21 08:14	08/02/21 05:21	1
DCB Decachlorobiphenyl	118		65 - 174	07/28/21 08:14	08/02/21 05:21	1
DCB Decachlorobiphenyl	115		65 - 174	07/28/21 08:14	08/02/21 05:21	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: Special Area 13 Dredge Spoil #546041

Job ID: 480-187618-1

Client Sample ID: GPFD-01

Lab Sample ID: 480-187618-10

Date Collected: 07/23/21 13:30

Matrix: Solid

Date Received: 07/24/21 08:00

Percent Solids: 90.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.27		mg/Kg	☼	07/28/21 08:14	08/02/21 05:34	1
PCB-1221	ND		0.27		mg/Kg	☼	07/28/21 08:14	08/02/21 05:34	1
PCB-1232	ND		0.27		mg/Kg	☼	07/28/21 08:14	08/02/21 05:34	1
PCB-1242	ND		0.27		mg/Kg	☼	07/28/21 08:14	08/02/21 05:34	1
PCB-1248	ND		0.27		mg/Kg	☼	07/28/21 08:14	08/02/21 05:34	1
PCB-1254	ND		0.27		mg/Kg	☼	07/28/21 08:14	08/02/21 05:34	1
PCB-1260	ND		0.27		mg/Kg	☼	07/28/21 08:14	08/02/21 05:34	1
PCB-1262	ND		0.27		mg/Kg	☼	07/28/21 08:14	08/02/21 05:34	1
PCB-1268	ND		0.27		mg/Kg	☼	07/28/21 08:14	08/02/21 05:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	131		60 - 154	07/28/21 08:14	08/02/21 05:34	1
Tetrachloro-m-xylene	141		60 - 154	07/28/21 08:14	08/02/21 05:34	1
DCB Decachlorobiphenyl	164		65 - 174	07/28/21 08:14	08/02/21 05:34	1
DCB Decachlorobiphenyl	166		65 - 174	07/28/21 08:14	08/02/21 05:34	1

Surrogate Summary

Client: New York State D.E.C.
Project/Site: Special Area 13 Dredge Spoil #546041

Job ID: 480-187618-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TCX1 (60-154)	TCX2 (60-154)	DCBP1 (65-174)	DCBP2 (65-174)
480-187618-1	GP01-02	110	113	126	119
480-187618-2	GP01-01	127	128	170	141
480-187618-3	GP02-01	112	112	108	108
480-187618-4	GP02-02	115	119	106	107
480-187618-5	GP02-03	115	116	101	99
480-187618-6	GP03-01	107	111	106	101
480-187618-7	GP03-02	120	123	117	113
480-187618-8	GP04-01	130	131	154	134
480-187618-9	GP04-02	122	128	118	115
480-187618-10	GPFD-01	131	141	164	166
LCS 480-590691/2-A	Lab Control Sample	141	147	140	142
MB 480-590691/1-A	Method Blank	123	130	123	122

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

QC Sample Results

Client: New York State D.E.C.
Project/Site: Special Area 13 Dredge Spoil #546041

Job ID: 480-187618-1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 480-590691/1-A

Matrix: Solid

Analysis Batch: 591232

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 590691

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	ND		0.24		mg/Kg		07/28/21 08:14	08/02/21 00:13	1
PCB-1221	ND		0.24		mg/Kg		07/28/21 08:14	08/02/21 00:13	1
PCB-1232	ND		0.24		mg/Kg		07/28/21 08:14	08/02/21 00:13	1
PCB-1242	ND		0.24		mg/Kg		07/28/21 08:14	08/02/21 00:13	1
PCB-1248	ND		0.24		mg/Kg		07/28/21 08:14	08/02/21 00:13	1
PCB-1254	ND		0.24		mg/Kg		07/28/21 08:14	08/02/21 00:13	1
PCB-1260	ND		0.24		mg/Kg		07/28/21 08:14	08/02/21 00:13	1
PCB-1262	ND		0.24		mg/Kg		07/28/21 08:14	08/02/21 00:13	1
PCB-1268	ND		0.24		mg/Kg		07/28/21 08:14	08/02/21 00:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	123		60 - 154	07/28/21 08:14	08/02/21 00:13	1
Tetrachloro-m-xylene	130		60 - 154	07/28/21 08:14	08/02/21 00:13	1
DCB Decachlorobiphenyl	123		65 - 174	07/28/21 08:14	08/02/21 00:13	1
DCB Decachlorobiphenyl	122		65 - 174	07/28/21 08:14	08/02/21 00:13	1

Lab Sample ID: LCS 480-590691/2-A

Matrix: Solid

Analysis Batch: 591232

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 590691

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	2.07	2.66		mg/Kg		128	51 - 185
PCB-1260	2.07	2.63		mg/Kg		127	61 - 184

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	141		60 - 154
Tetrachloro-m-xylene	147		60 - 154
DCB Decachlorobiphenyl	140		65 - 174
DCB Decachlorobiphenyl	142		65 - 174

QC Association Summary

Client: New York State D.E.C.
Project/Site: Special Area 13 Dredge Spoil #546041

Job ID: 480-187618-1

GC Semi VOA

Prep Batch: 590691

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187618-1	GP01-02	Total/NA	Solid	3550C	
480-187618-2	GP01-01	Total/NA	Solid	3550C	
480-187618-3	GP02-01	Total/NA	Solid	3550C	
480-187618-4	GP02-02	Total/NA	Solid	3550C	
480-187618-5	GP02-03	Total/NA	Solid	3550C	
480-187618-6	GP03-01	Total/NA	Solid	3550C	
480-187618-7	GP03-02	Total/NA	Solid	3550C	
480-187618-8	GP04-01	Total/NA	Solid	3550C	
480-187618-9	GP04-02	Total/NA	Solid	3550C	
480-187618-10	GPFD-01	Total/NA	Solid	3550C	
MB 480-590691/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 480-590691/2-A	Lab Control Sample	Total/NA	Solid	3550C	

Analysis Batch: 591232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187618-1	GP01-02	Total/NA	Solid	8082A	590691
480-187618-3	GP02-01	Total/NA	Solid	8082A	590691
480-187618-4	GP02-02	Total/NA	Solid	8082A	590691
480-187618-5	GP02-03	Total/NA	Solid	8082A	590691
480-187618-6	GP03-01	Total/NA	Solid	8082A	590691
480-187618-7	GP03-02	Total/NA	Solid	8082A	590691
480-187618-9	GP04-02	Total/NA	Solid	8082A	590691
480-187618-10	GPFD-01	Total/NA	Solid	8082A	590691
MB 480-590691/1-A	Method Blank	Total/NA	Solid	8082A	590691
LCS 480-590691/2-A	Lab Control Sample	Total/NA	Solid	8082A	590691

Analysis Batch: 591353

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187618-2	GP01-01	Total/NA	Solid	8082A	590691
480-187618-8	GP04-01	Total/NA	Solid	8082A	590691

General Chemistry

Analysis Batch: 590660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-187618-1	GP01-02	Total/NA	Solid	Moisture	
480-187618-2	GP01-01	Total/NA	Solid	Moisture	
480-187618-3	GP02-01	Total/NA	Solid	Moisture	
480-187618-4	GP02-02	Total/NA	Solid	Moisture	
480-187618-5	GP02-03	Total/NA	Solid	Moisture	
480-187618-6	GP03-01	Total/NA	Solid	Moisture	
480-187618-7	GP03-02	Total/NA	Solid	Moisture	
480-187618-8	GP04-01	Total/NA	Solid	Moisture	
480-187618-9	GP04-02	Total/NA	Solid	Moisture	
480-187618-10	GPFD-01	Total/NA	Solid	Moisture	

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Special Area 13 Dredge Spoil #546041

Job ID: 480-187618-1

Client Sample ID: GP01-02

Lab Sample ID: 480-187618-1

Date Collected: 07/23/21 11:00

Matrix: Solid

Date Received: 07/24/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	590660	07/27/21 17:59	IMZ	TAL BUF

Client Sample ID: GP01-02

Lab Sample ID: 480-187618-1

Date Collected: 07/23/21 11:00

Matrix: Solid

Date Received: 07/24/21 08:00

Percent Solids: 69.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			590691	07/28/21 08:14	VXF	TAL BUF
Total/NA	Analysis	8082A		1	591232	08/02/21 03:12	NC	TAL BUF

Client Sample ID: GP01-01

Lab Sample ID: 480-187618-2

Date Collected: 07/23/21 10:50

Matrix: Solid

Date Received: 07/24/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	590660	07/27/21 17:59	IMZ	TAL BUF

Client Sample ID: GP01-01

Lab Sample ID: 480-187618-2

Date Collected: 07/23/21 10:50

Matrix: Solid

Date Received: 07/24/21 08:00

Percent Solids: 75.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			590691	07/28/21 08:14	VXF	TAL BUF
Total/NA	Analysis	8082A		5	591353	08/02/21 16:51	NC	TAL BUF

Client Sample ID: GP02-01

Lab Sample ID: 480-187618-3

Date Collected: 07/23/21 11:45

Matrix: Solid

Date Received: 07/24/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	590660	07/27/21 17:59	IMZ	TAL BUF

Client Sample ID: GP02-01

Lab Sample ID: 480-187618-3

Date Collected: 07/23/21 11:45

Matrix: Solid

Date Received: 07/24/21 08:00

Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			590691	07/28/21 08:14	VXF	TAL BUF
Total/NA	Analysis	8082A		1	591232	08/02/21 04:04	NC	TAL BUF

Client Sample ID: GP02-02

Lab Sample ID: 480-187618-4

Date Collected: 07/23/21 11:55

Matrix: Solid

Date Received: 07/24/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	590660	07/27/21 17:59	IMZ	TAL BUF

Eurofins TestAmerica, Buffalo

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Special Area 13 Dredge Spoil #546041

Job ID: 480-187618-1

Client Sample ID: GP02-02

Lab Sample ID: 480-187618-4

Date Collected: 07/23/21 11:55

Matrix: Solid

Date Received: 07/24/21 08:00

Percent Solids: 62.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			590691	07/28/21 08:14	VXF	TAL BUF
Total/NA	Analysis	8082A		1	591232	08/02/21 04:17	NC	TAL BUF

Client Sample ID: GP02-03

Lab Sample ID: 480-187618-5

Date Collected: 07/23/21 12:10

Matrix: Solid

Date Received: 07/24/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	590660	07/27/21 17:59	IMZ	TAL BUF

Client Sample ID: GP02-03

Lab Sample ID: 480-187618-5

Date Collected: 07/23/21 12:10

Matrix: Solid

Date Received: 07/24/21 08:00

Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			590691	07/28/21 08:14	VXF	TAL BUF
Total/NA	Analysis	8082A		1	591232	08/02/21 04:30	NC	TAL BUF

Client Sample ID: GP03-01

Lab Sample ID: 480-187618-6

Date Collected: 07/23/21 12:30

Matrix: Solid

Date Received: 07/24/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	590660	07/27/21 17:59	IMZ	TAL BUF

Client Sample ID: GP03-01

Lab Sample ID: 480-187618-6

Date Collected: 07/23/21 12:30

Matrix: Solid

Date Received: 07/24/21 08:00

Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			590691	07/28/21 08:14	VXF	TAL BUF
Total/NA	Analysis	8082A		1	591232	08/02/21 04:42	NC	TAL BUF

Client Sample ID: GP03-02

Lab Sample ID: 480-187618-7

Date Collected: 07/23/21 12:35

Matrix: Solid

Date Received: 07/24/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	590660	07/27/21 17:59	IMZ	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Special Area 13 Dredge Spoil #546041

Job ID: 480-187618-1

Client Sample ID: GP03-02

Lab Sample ID: 480-187618-7

Date Collected: 07/23/21 12:35

Matrix: Solid

Date Received: 07/24/21 08:00

Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			590691	07/28/21 08:14	VXF	TAL BUF
Total/NA	Analysis	8082A		1	591232	08/02/21 04:55	NC	TAL BUF

Client Sample ID: GP04-01

Lab Sample ID: 480-187618-8

Date Collected: 07/23/21 13:20

Matrix: Solid

Date Received: 07/24/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	590660	07/27/21 17:59	IMZ	TAL BUF

Client Sample ID: GP04-01

Lab Sample ID: 480-187618-8

Date Collected: 07/23/21 13:20

Matrix: Solid

Date Received: 07/24/21 08:00

Percent Solids: 89.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			590691	07/28/21 08:14	VXF	TAL BUF
Total/NA	Analysis	8082A		10	591353	08/02/21 17:03	NC	TAL BUF

Client Sample ID: GP04-02

Lab Sample ID: 480-187618-9

Date Collected: 07/23/21 13:25

Matrix: Solid

Date Received: 07/24/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	590660	07/27/21 17:59	IMZ	TAL BUF

Client Sample ID: GP04-02

Lab Sample ID: 480-187618-9

Date Collected: 07/23/21 13:25

Matrix: Solid

Date Received: 07/24/21 08:00

Percent Solids: 89.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			590691	07/28/21 08:14	VXF	TAL BUF
Total/NA	Analysis	8082A		1	591232	08/02/21 05:21	NC	TAL BUF

Client Sample ID: GPFD-01

Lab Sample ID: 480-187618-10

Date Collected: 07/23/21 13:30

Matrix: Solid

Date Received: 07/24/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	590660	07/27/21 17:59	IMZ	TAL BUF

Lab Chronicle

Client: New York State D.E.C.
Project/Site: Special Area 13 Dredge Spoil #546041

Job ID: 480-187618-1

Client Sample ID: GPFD-01
Date Collected: 07/23/21 13:30
Date Received: 07/24/21 08:00

Lab Sample ID: 480-187618-10
Matrix: Solid
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			590691	07/28/21 08:14	VXF	TAL BUF
Total/NA	Analysis	8082A		1	591232	08/02/21 05:34	NC	TAL BUF

Laboratory References:
TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: Special Area 13 Dredge Spoil #546041

Job ID: 480-187618-1

Laboratory: Eurofins TestAmerica, Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Method Summary

Client: New York State D.E.C.

Job ID: 480-187618-1

Project/Site: Special Area 13 Dredge Spoil #546041

Method	Method Description	Protocol	Laboratory
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
3550C	Ultrasonic Extraction	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins TestAmerica, Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: New York State D.E.C.

Job ID: 480-187618-1

Project/Site: Special Area 13 Dredge Spoil #546041

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-187618-1	GP01-02	Solid	07/23/21 11:00	07/24/21 08:00
480-187618-2	GP01-01	Solid	07/23/21 10:50	07/24/21 08:00
480-187618-3	GP02-01	Solid	07/23/21 11:45	07/24/21 08:00
480-187618-4	GP02-02	Solid	07/23/21 11:55	07/24/21 08:00
480-187618-5	GP02-03	Solid	07/23/21 12:10	07/24/21 08:00
480-187618-6	GP03-01	Solid	07/23/21 12:30	07/24/21 08:00
480-187618-7	GP03-02	Solid	07/23/21 12:35	07/24/21 08:00
480-187618-8	GP04-01	Solid	07/23/21 13:20	07/24/21 08:00
480-187618-9	GP04-02	Solid	07/23/21 13:25	07/24/21 08:00
480-187618-10	GPFD-01	Solid	07/23/21 13:30	07/24/21 08:00

Chain of Custody Record

10 Hazelwood Drive
Albany, NY 12228-2298
Phone: 716-691-2600 Fax: 716-691-7991

#224

Client Information		Lab PM: Stone, Judy L		Carrier Tracking No(s): 480-163278-35880.1	
Client Contact: Mr. Brian Cervi		E-Mail: Judy.Stone@Eurofinset.com		State of Origin: NY	
Company: Ecology and Environment, Inc.		PWSID:		Page 1 of 1	
Address: 368 Pleasant View Drive		Due Date Requested:		Job #:	
City: Lancaster		TAT Requested (days): 10 days/2 weeks		Analysis Requested:	
State, Zip: NY, 14086		Compliance Project: ☐ Yes ☒ No		Preservation Codes:	
Phone: 518-402-9683(Tel)		PO #: 139459		A - HCL M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Nitric Acid R - Na2SO3 S - MeOH T - Dodecahydrate U - specify)	
Email: brian.cervi@wsp.com		WO #: 48022825		Barcode: 480-187618 Chain of Custody	
Project Name: Special Area 13 Dredge Spoil #546041		SSOW#:			
Site:					

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=other, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8082A - TCL PCBs	Total Num	Special Instructions/Note:
GP01-01	7/23/2021	1106	G	Solid	N	N	X	1	1.5-2.0 ft
GP02-01	7/23/2021	1050	G	Solid	N	N	X	1	7.0-8.0 ft
GP02-02	7/23/2021	1145	G	Solid	N	N	X	1	1.0-1.5 ft
GP02-03	7/23/2021	1155	G	Solid	N	N	X	1	8.0-9.0 ft
GP03-01	7/23/2021	1210	G	Solid	N	N	X	1	11.0-12.0 ft
GP03-02	7/23/2021	1230	G	Solid	N	N	X	1	1.0-1.5 ft
GP04-01	7/23/2021	1335	G	Solid	N	N	X	1	2.5-3.0 ft
GP04-02	7/23/2021	1320	G	Solid	N	N	X	1	0.5-1.0 ft
GPFD-01	7/23/2021	1330		Solid	N	N	X	1	1.5-2.0 ft

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
☐ Non-Hazard	☐ Flammable	☐ Return To Client	☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:	
Empty Kit Relinquished by:		Method of Shipment:	
Relinquished by: [Signature]		Date/Time: 7/23/21 1530	
Relinquished by: [Signature]		Date/Time: 7/24/21 0800	
Relinquished by: [Signature]		Date/Time: [Signature]	
Custody Seals Intact: ☐ Yes ☐ No		Cooler Temperature(s) °C and Other Remarks: 2.14	

Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-187618-1

Login Number: 187618

List Source: Eurofins TestAmerica, Buffalo

List Number: 1

Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	